Alibaba Cloud
Virtual Private Cloud

API reference

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Generic conventions

Table -1: Style conventions

Style	Description	Example
	This warning information indicates a situation that will cause major system changes, faults, physical injuries, and other adverse results.	Danger: Resetting will result in the loss of user configuration data.
	This warning information indicates a situation that may cause major system changes, faults, physical injuries, and other adverse results.	Warning: Restarting will cause business interruption. About 10 minutes are required to restore business.
	This indicates warning informatio n, supplementary instructions, and other content that the user must understand.	Notice: Take the necessary precautions to save exported data containing sensitive information.
	This indicates supplemental instructions, best practices, tips, and other content that is good to know for the user.	Note: You can use Ctrl + A to select all files.
>	Multi-level menu cascade.	Settings > Network > Set network type
Bold	It is used for buttons, menus , page names, and other UI elements.	Click **OK**.
`Courier font`	It is used for commands.	Run the `cd / d C :/ windows` command to enter the Windows system folder.
Italics	It is used for parameters and variables.	`bae log list -- instanceid` *Instance_ID*
[] or [a|b]	It indicates that it is a optional value, and only one item can be selected.	`ipconfig` *[-all|-t]*

Style	Description	Example
{} or {a|b}	It indicates that it is a required value, and only one item can be selected.	`swich` *{stand | slave}*

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1 API overview

This document summarizes all callable VPC APIs. For detailed API information, see related documents. For more information, see API Explorer.

VPC

API	Description
CreateVpc	Create a VPC.
DeleteVpc	Delete a VPC.
DescribeVpcs	Query created VPCs.
ModifyVpcAttribute	Modify the name and description of a VPC.

Router interface

API	Description
DescribeVRouters	Query the list of VRouters in a region.
ModifyVRouterAttribute	Modify the name and description of a VRouter.

VSwitch

API	Description
CreateVSwitch	Create a VSwitch.
DeleteVSwitch	Delete a VSwitch.
DescribeVSwitches	Query created VSwitches.
ModifyVSwitchAttribute	Modify the name and description of a VSwitch.

Route table

API	Description
CreateRouteEntry	Create a custom route entry on a VRouter or VBR.
DeleteRouteEntry	Delete a route entry in the route table of a VRouter or VBR.
DescribeRouteTables	Query route entries in a route table.

EIP

API	Description
AllocateEipAddress	Create an EIP.
AssociateEipAddress	Bind an EIP to a cloud product instance in the same region.
UnassociateEipAddress	Unbind an EIP from a cloud product instance.
DescribeEipAddresses	Query created EIPs in a region.
ModifyEipAddressAttribute	Modify the name, description, and peak bandwidth of an EIP.
ReleaseEipAddress	Release an EIP.

NAT Gateway

API	Description
CreaeNatGateway	Create a NAT Gateway.
DescribeNatGateways	Query created NAT Gateways.
ModifyBandwidthPackageSpec	Modify a NAT Gateway.
ModifyNatGatewayAttribute	Modify the configurations of a NAT Gateway.
DeleteNatGateway	Delete a NAT Gateway.
CreateBandwidthPackage	Create a NAT bandwidth package.
DescribeBandwidthPackages	Query NAT bandwidth packages in a region.
ModifyBandwidthPackageSpec	Modify the bandwidth of a NAT bandwidth package.
ModifyBandwidthPackageAttribute	Modify the name and description of a NAT bandwidth package.
AddBandwidthPackageIps	Modify a NAT bandwidth package-Add public IPs.
RemoveBandwidthPackageIps	Modify a NAT bandwidth package-Remove public IPs.
DeleteBandwidthPackage	Delete a NAT bandwidth package.
CreateForwardEntry	Add a DNAT entry in a DNAT table.
DescribeForwardTableEntries	Query created DNAT entries.

API	Description
ModifyForwardEntry	Modify a DNAT entry.
DeleteForwardEntry	Delete a DNAT entry.
CreateSnatEntry	Add an SNAT entry in a SNAT table.
DescribeSnatTableEntries	Query created SNAT entries in a SNAT table.
ModifySnatEntry	Modify an SNAT entry.
DeleteSnatEntry	Delete an SNAT entry.

VPN Gateways

API	Description
CreateVpnGateway	Create a VPN Gateways.
DescribeVpnGateways	Query created VPN Gatewayss.
DescribeVpnGateway	Query the detailed information of a VPN Gateways.
ModifyVpnGatewayAttribute	Modify the name and description of a VPN Gateways.
DeleteVpnGateway	Delete a VPN Gateways.
CreateCustomerGateway	Create a customer gateway.
DescribeCustomerGateways	Query created customer gateways.
DescribeCustomerGateway	Query the detailed information of a customer gateway.
DeleteCustomerGateway	Delete a customer gateway.
ModifyCustomerGatewayAttribute	Modify the name and description of a customer gateway.
CreateVpnConnection	Create an IPSec-VPN connection.
DescribeVpnConnections	Query created IPSec-VPN connections.
DescribeVpnConnection	Query the detailed information of an IPSec-VPN connection.
ModifyVpnConnectionAttribute	Modify the configurations of an IPSec-VPN connection.
DeleteVpnConnection	Delete an IPSec-VPN connection.
DownloadVpnConnectionConfig	Obtain the configurations of an IPSec-VPN connection.

API	Description
CreateSslVpnServer	Create an SSL-VPN server.
DescribeSslVpnServers	Query created SSL-VPN servers.
DeleteSslVpnServer	Remove an SSL-VPN server.
ModifySslVpnServer	Modify the configurations of an SSL-VPN server.
CreateSslVpnClientCert	Create an SSL-VPN client certificate.
DescribeSslVpnClientCerts	Query created SSL-VPN client certificates.
DeleteSslVpnClientCert	Delete an SSL-VPN client certificate.
ModifySslVpnClientCert	Modify the name of an SSL-VPN client certificate.

Region

API	Description
DescribeRegions	Query regions.
DescribeZones	Query zones.
DescribeAccessPoints	Query access points in a region.

Monitor

API	Description
DescribeBandwidthPackagePublicIpMonitorData	Query the monitoring data of a public IP in the NAT bandwidth package.
DescribeEipMonitorData	Query the monitoring information of an EIP.

Physical connection

API	Description
CreatePhysicalConnection	Create a physical connection.
CancelPhysicalConnection	Cancel physical connection access before the physical connection is enabled.
DescribePhysicalConnections	Query created physical connections in a region.

API	Description
ModifyPhysicalConnectionAttribute	Modify the configurations of a physical connection.
TerminatePhysicalConnection	Terminate the access of the physical connection after the physical connection is enabled. The physical connection changes to the Terminating status after the API is called and changes to the Terminated status when the process is completed.
EnablePhysicalConnection	Enable the physical connection in the Confirmed status. Then the physical connection changes to the Enabled status .
DeletePhysicalConnection	Delete a physical connection.

VBR

API	Description
CreateVirtualBorderRouter	Create a Virtual Border Router (VBR).
DeleteVirtualBorderRouter	Delete a VBR.
DescribeVirtualBorderRouters	Query created Virtual Border Routers.
DescribeVirtualBorderRoutersForPhysicalConnection	Query the Virtual Border Routers created for a physical connection.
ModifyVirtualBorderRouterAttribute	Modify the configurations of a VBR.
TerminateVirtualBorderRouter	Terminate a Virtual Border Router (VBR).
RecoverVirtualBorderRouter	Recover a terminated VBR.

Router interface

API	Description
CreateRouterInterface	Create a router interface.
DescribeRouterInterfaces	Query router interfaces in a region.
ConnectRouterInterface	The initiator router interface initiates a connection to the receiver router interface.
ActivateRouterInterface	Activate a router interface in the Inactive status.

API	Description
DeactivateRouterInterface	Deactivate a router interface.
ModifyRouterInterfaceSpec	Modify the specification of a router interface.
ModifyRouterInterfaceAttribute	Modify the configurations of a router interface.
DeleteRouterInterface	Delete a router interface.

BGP

API	Description
CreateBgpGroup	Create a BGP group for a VBR.
DescribeBgpGroups	Query created BGP groups in a region.
ModifyBgpGroupAttribute	Modify the configurations of a BGP group .
DeleteBgpGroup	Delete a BGP group.
CreateBgpPeer	Add a BGP peer to a BGP group.
DescribeBgpPeers	Query the BGP peers in a region.
DeleteBgpPeer	Delete a BGP peer.
AddBgpNetwork	Advertise a BGP network.
DeleteBgpNetwork	Delete an advertised BGP network.
DescribeBgpNetworks	Query advertised BGP networks.

Global Acceleration

API	Description
CreateGlobalAccelerationInstance	Create a Global Acceleration instance.
DescribeGlobalAccelerationInstances	Query the list of created Global Acceleration instances.
ModifyGlobalAccelerationInstanceAttributes	Modify the name and description of a Global Acceleration instance.
ModifyGlobalAccelerationInstanceSpec	Modify the bandwidth of a Global Acceleration instance.
DeleteGlobalAccelerationInstance	Delete a Global Acceleration instance.

API	Description
AssociateGlobalAccelerationInstance	Bind a Global Acceleration instance to a backend server.
UnassociateGlobalAccelerationInstance	Unbind a Global Acceleration instance from the associated backend server.
DescribeServerRelatedGlobalAccelerationInstances	Query Global Acceleration instances bound to a backend server.

2 Call VPC APIs

When you call a VPC API, an HTTP GET request is sent to the API service address of VPC, and the system responds according to the parameters set in the request. Both the request and the response are UTF-8-encoded.

Request syntax

VPC APIs use RPC style. You can call VPC APIs by sending HTTP GET requests.

The request syntax is as follows:

```
http :// Endpoint /? Action = xx & Parameters
```

where,

- `Endpoint` : The endpoint of VPC APIs is `vpc . aliyuncs . com` .
- `Action` : the name of the action. For example, if you need to query one or more VPCs, the action is `DescribeVpcs`.
- `Version` : the version of the API. The version of VPC APIs is `2016 - 04 - 28` .
- `Parameters` : the request parameters. Separate multiple parameters by using ampersands (&).

  Request parameters include common parameters and API-specific parameters. Common parameters include API version and identity authentication information among other parameters. For more information, see #unique_5.

The following is an example of calling `DescribeVpcs` to query one or more VPCs.

> **Note:**
> The following code has been edited to ease readability.

```
 https :// vpc . aliyuncs . com /? Action = DescribeVp  cs
& Format = xml
& Version = 2014 - 05 - 15
& Signature = xxxx % xxxx % 3D
& SignatureM  ethod = HMAC - SHA1
& SignatureN  once = 1521552885  2396
& SignatureV  ersion = 1 . 0
& AccessKeyI  d = key - test
& Timestamp = 2012 - 06 - 01T12 : 00 : 00Z
```

```
...
```

API authorization

To maintain account security, we recommend that you use the Access Keys (AKs) of RAM users to call APIs. Before you use the AKs of RAM users to call APIs, you must grant permissions to the RAM users by attaching corresponding policies to them.

For a list of VPC resources and interfaces that can be authorized, see #unique_6.

API signature

Authentication is required by the VPC service for each API call, which is provided by the inclusion of signature information in the request.

VPC uses an AccessKeyID and AccessKeySecret pair (that is, an AK) and symmetric encryption to authenticate the identity of the request sender. AKs are certificates that Alibaba Cloud issues to Alibaba Cloud accounts and RAM users for authentica tion. It is similar to a logon password. The AccessKeyID is used to identify the visitor 's identity. The AccessKeySecret is the key used to encrypt the signature string. The server uses the AccessKeySecret to decrypt the signature string. The AccessKeySecret must be kept confidential.

For an RPC API, you must add the signature to the API request in the following format :

```
https://endpoint/?SignatureVersion= 1 . 0 &SignatureMethod= HMAC - SHA1
 &Signature= xxxx % 3D & SignatureN  once = 3ee8c1b8 - 83d3 - 44af -
 a94f - 4e0ad82fd6  cf
```

Take the API call of `DescribeVpcs` as an example. If your AccessKeyID is `testid` , and your AccessKeySecret is `testsecret` , then, the URL in the signature is as follows:

```
 http :// vpc . aliyuncs . com /? Action = DescribeVp  cs
& Timestamp = 2016 - 02 - 23T12 : 46 : 24Z
& Format = XML
& AccessKeyI  d = testid
& SignatureM  ethod = HMAC - SHA1
& SignatureN  once = 3ee8c1b8 - 83d3 - 44af - a94f - 4e0ad82fd6  cf
& Version = 2014 - 05 - 26
& SignatureV  ersion = 1 . 0
```

To generate the signature, follow these steps:

1. Create the string to be signed by using the request parameter.

```
GET &% 2F & AccessKeyI  d % 3Dtestid & Action % 3DDescribe
Vpcs & Format % 3DXML & SignatureM  ethod % 3DHMAC - SHA1 &
SignatureN  once % 3D3ee8c1b8 - 83d3 - 44af - a94f - 4e0ad82fd6  cf
& SignatureV  ersion % 3D1 . 0 & TimeStamp % 3D2016 - 02 - 23T12 %
253A46 % 253A24Z & Version % 3D2014 - 05 - 15
```

.

2. Calculate the HMAC value of the string.

   Add an ampersand (&) after the AccessKeySecret to add the key of the HMAC value. In this example, the key is `testsecret &`.

```
CT9X0VtwR8  6fNWS ******** juE =
```

3. Add the signature to the request parameter.

```
 http :// vpc . aliyuncs . com /? Action = DescribeVp  cs
& Timestamp = 2016 - 02 - 23T12 : 46 : 24Z
& Format = XML
& AccessKeyI  d = testid
& SignatureM  ethod = HMAC - SHA1
& SignatureN  once = 3ee8c1b8 - 83d3 - 44af - a94f - 4e0ad82fd6  cf
& Version = 2014 - 05 - 26
& SignatureV  ersion = 1 . 0
& Signature = xxxx % 3D
```

3 Common parameters

Common request parameters

The following table describes common request parameters used in most Alibaba Cloud APIs.

Table 3-1: Common request parameters

Parameter	Type	Require?	Description
`Format`	String	No	The format of the response. Valid values: `JSON (default) | XML`
`Version`	String	Yes	The version of the API. It uses the date format `YYYY-MM-DD`. Valid value: `2016-04-28`
`AccessKeyId`	String	Yes	The AccessKey ID of the user who calls the API.
`Signature`	String	Yes	The request signature.
`SignatureMethod`	String	Yes	The algorithm used to create the request signature. Valid value: `HMAC-SHA1`
`Timestamp`	String	Yes	The time at which the request is signed. It uses the format: `YYYY-MM-DDThh:mm:ssZ`. For example, 2013-01-10T12:00:00Z.
`SignatureVersion`	String	Yes	The signature version to use. Valid value: `1.0`
`SignatureNonce`	String	Yes	A random number for the signature to prevent from network attacks. Different random numbers must be used for different requests.

Common response parameters

Alibaba Cloud API responses all use a unified format. A status code of the format 2xx indicates a successful call, and a status code of the 4xx or 5xx format indicates a failed call. For successful calls, returned data can be in a XML or JSON format. You can specify the format of the returned data when sending a request. The default format is XML.

A `RequestId` is returned no matter if it is successful or not.

- XML format

```
<?  xml   version =" 1 . 0 "  encoding =" utf - 8 "? >
    <!— The   root   node   of   the   result -->
    < Action + Response >
        <!— The   returned   result -->
        < RequestId > 4C467B38 - 3910 - 447D - 87BC - AC049166F2  16
 </ RequestId >
        <!— The   returned   result -->
    </ Action + Response >
```

- JSON format

```
{
    " RequestId ":" 4C467B38 - 3910 - 447D - 87BC - AC049166F2  16
 ",
    /* The   returned   result */
    }
```

4 RAM authentication

Before a RAM user can call VPC APIs, the primary account must grant the RAM user the corresponding permission by creating an authentication policy. In the authentication policy, an Alibaba Cloud Resource Name (ARN) is used as the unique identifier of the resource to authorize. This topic overviews ARNs used as unique identifiers of VPC resources.

VPC resources

The following table lists VPC resources that can be authorized and the corresponding ARN formats. For the following ARN formats, $regionid/accountid/vrouterid is the resource ID, and * represents all corresponding resources.

Resource	ARN formats
VPC	`acs : vpc :$ regionid :$ accountid : vpc /$ vpcid`
	`acs : vpc :$ regionid :$ accountid : vpc /*`
	`acs : vpc :*:$ accountid : vpc /*`
	`acs : slb :*:*: loadbalanc er /*`
VRouter	`acs : vpc :$ regionid :$ accountid : vrouter /$ vrouterid`
	`acs : vpc :$ regionid :$ accountid : vrouter /*`
	`acs : vpc :*:$ accountid : vrouter /*`
VSwitch	`acs : vpc :$ regionid :$ accountid : vswitch /$ vswitchid`
	`acs : vpc :$ regionid :$ accountid : vswitch /*`
	`acs : vpc :*:$ accountid : vswitch /*`
Route Table	`acs : vpc :$ regionid :$ accountid : routetable /$ routetable id`
	`acs : vpc :$ regionid :$ accountid : routetable /*`
	`acs : vpc :*:$ accountid : routetable /*`
HaVip	`acs : vpc :$ regionid :$ accountid : havip /$ havipid`
	`acs : vpc :$ regionid :$ accountid : havip /*`

Resource	ARN formats
	acs : vpc :*:$ accountid : havip /*
EIP	acs : vpc :$ regionid :$ accountid : eip /$ allocation id
	acs : vpc :$ regionid :$ accountid : eip /*
	acs : vpc :*:$ accountid : eip /*
NAT Gateway	acs : vpc :$ regionid :$ accountid : natgateway /$ natgateway id
	acs : vpc :$ regionid :$ accountid : natgateway /*
	acs : vpc *:$ accountid : vpc /*
NAT Gateway Bandwidth Package	acs : vpc :$ regionid :$ accountid : bandwidthp ackage /$ bandwidthp ackageid
	acs : vpc :$ regionid :$ accountid : bandwidthp ackage /*
	aacs : vpc :*:$ accountid : vpc /*
Forward Table	acs : vpc :$ regionid :$ accountid : forwardtab le /$ forwardtab leid
	acs : vpc :$ regionid :$ accountid : forwardtab le /*
	acs : vpc :*:$ accountid : vpc /*
SNAT Table	acs : vpc :$ regionid :$ accountid : snattable /$ snattablei d
	acs : vpc :$ regionid :$ accountid : snattable /*
	acs : vpc :*:$ accountid : vpc /*
Customer Gateway	acs : vpc :$ regionid :$ accountid : customerga teway /$ customerga tewayid
	acs : vpc :$ regionid :$ accountid : customerga teway /*
	acs : vpc :*:$ accountid : customerga teway /*
IPsec Connection	acs : vpc :$ regionid :$ accountid : vpnconnect ion /$ vpnconnect ionid
	acs : vpc :$ regionid :$ accountid : vpnconnect ion /*

Resource	ARN formats
	`acs : vpc :*:$ accountid : vpnconnect ion /*`
VPN Gateway	`acs : vpc :$ regionid :$ accountid : vpngateway /$ vpngateway id`
	`acs : vpc :$ regionid :$ accountid : vpngateway /*`
	`acs : vpc :*:$ accountid : vpngateway /*`
Global Accelerati on Instance	`acs : vpc :$ regionid :$ accountid : globalacce lerationin stance /$ globalacce lerationin stanceid`
	`acs : vpc :$ regionid :$ accountid : globalacce lerationin stance /*`
	`acs : vpc ::$ accountid : globalacce lerationin stance /*`
General Expression	`acs : vpc :$ regionid :$ accountid :*`
	`acs : vpc :*:$ accountid :*`

VPC APIs

The following table lists the ARN formats of the APIs that can be authorized.

Where `$ regionid / accoutid / vrouterid` is the resource ID, and `*` represents the corresponding resource.

API	ARN format
CreateVpc	`acs : vpc :$ regionid :$ accountid : vpc /*`
DeleteVpc	`acs : vpc :$ regionid :$ accountid : vpc /$ vpcid`
DescribeVpcs	`acs : vpc :$ regionid :$ accountid : vpc /*`
ModifyVpcAttribute	`acs : vpc :$ regionid :$ accountid : vpc /$ vpcid`
DescribeVRouters	`acs : vpc :$ regionid :$ accountid : vrouter /*`
	Specify the VRouterId to query: `" vpc : Vpc ":" acs : vpc :$ regionid :$ accountid : vpc /$ vpcid "`

API	ARN format
	The VRouterId is not specified: `" vpc : Vpc ":" acs : vpc :$ regionid :$ accountid : vpc /*"`
ModifyVRouterAttribute	`acs : vpc :*:$ accountid :*`
CreateVSwitch	`acs : vpc :$ regionid :$ accountid : vswitch /*`
	`acs : vpc :$ regionid :$ accountid : vpc /$ vpcid`
DeleteVSwitch	`acs : vpc :$ regionid :$ accountid : vswitch /$ vswitchid`
DescribeVSwitches	`acs : vpc :$ regionid :$ accountid : vswitch /*`
	`" vpc : Vpc ":" acs : vpc :$ regionid :$ accountid : vpc /$ vpcid "`
ModifyVSwitchAttribute	`acs : vpc :$ regionid :$ accountid : vswitch /$ vswitchId`
CreateRouteEntry	`acs : vpc :$ regionid :$ accountid : routetable /$ routetable  id`
DeleteRouteEntry	`acs : vpc :$ regionid :$ accountid : routetable /$ routetable  id`
DescribeRouteTables	`acs : vpc :$ regionid :$ accountid : routetable /*`
	`" vpc : VRouter ":" acs : vpc $ regionid :$ accountid : vrouter /$ vrouterid "`
CreateHaVip	`acs : vpc :$ regionid :$ accountid : havip /*`
	`acs : vpc :$ regionid :$ accountid : vswitch /$ vswitchid`
DeleteHaVip	`acs : vpc :$ regionid :$ accountid : havip /$ havipid`
AssociateHaVip	`acs : vpc :$ regionid :$ accountid : havip /$ havipid`

API	ARN format
	`acs : vpc :% s :% s : certificat e /%`
	`acs : ecs :$ regionid :$ accountid : instance /$ instanceid`
UnassociateHaVip	`acs : vpc :$ regionid :$ accountid : havip /$ havipid`
	`acs : ecs :$ regionid :$ accountid : instance /$ instanceid`
DescribeHaVips	`acs : vpc :$ regionid :$ accountid : havip /*`
AllocateEipAddress	`acs : vpc :$ regionid :$ accountid : eip /*`
AssociateEipAddres	`acs : vpc :$ regionid :$ accountid : eip /*`

	Attach an ECS instance
	`acs : vpc :$ regionid :$ accountid : eip /$ allocation id`
	`acs : ecs :$ regionid :$ accountid : instance /$ instanceid`

	Attach an HaVip
	`acs : vpc :$ regionid :$ accountid : eip /$ allocation id`
	`acs : vpc :$ regionid :$ accountid : havip /$ havipid`

DescribeEipAddresses	`acs : vpc :$ regionid :$ accountid : eip /*`

UnassociateEipAddress	**Attach an ECS instance**
	`acs : vpc :$ regionid :$ accountid : eip /$ allocation id`
	`acs : ecs :$ regionid :$ accountid : instance /$ instanceid`

API	ARN format

	Attach an HaVip
	`acs : vpc :$ regionid :$ accountid : eip /$ allocation id`
	`acs : vpc :$ regionid :$ accountid : havip /$ havipid`

ReleaseEipAddress	`acs : vpc :$ regionid :$ accountid : eip /$ allocation id`
DescribeEipMonitorData	`acs : vpc :$ regionid :$ accountid : eip /$ allocation id`
	`acs : ecs :$ regionid :$ accountid : instance /$ instanceid`
CreateNatGateway	`acs : vpc :$ regionid :$ accountid : natgateway /*`
DescribeNatGateways	`acs : vpc :$ regionid :$ accountid : natgateway /$ natgateway id`
	`acs : vpc :$ regionid :$ accountid : natgateway /*`
ModifyNatGatewaySpec	`acs : vpc :$ regionid :$ accountid : natgateway /$ natgateway id`
ModifyNatGatewayAttribute	`acs : vpc :$ regionid :$ accountid : natgateway /$ natgateway id`
	`acs : ecs :$ regionid :$ accountid : instance /$ instanceid`
DeleteNatGateway	`acs : vpc :$ regionid :$ accountid : natgateway /$ natgateway id`
	`acs : ecs :$ regionid :$ accountid : instance /$ instanceid`
CreateBandwidthPackage	`acs : vpc :$ regionid :$ accountid : bandwidthp ackage /*`
DescribeBandwidthPackages	`acs : vpc :$ regionid :$ accountid : bandwidthp ackage /$ bandwidthp ackageid`

API	ARN format
	`acs : vpc :$ regionid :$ accountid : bandwidthp ackage /*`
ModifyBandwidthPackageSpec	`acs : vpc :$ regionid :$ accountid : bandwidthp ackage /$ bandwidthp ackageid`
ModifyBandwidthPackageAttribute	`acs : vpc :$ regionid :$ accountid : bandwidthp ackage /$ bandwidthp ackageid`
AddBandwidthPackageIps	`acs : vpc :$ regionid :$ accountid : bandwidthp ackage /$ bandwidthp ackageid`
RemoveBandwidthPackageIps	`acs : vpc :$ regionid :$ accountid : bandwidthp ackage /$ bandwidthp ackageid`
DeleteBandwidthPackage	`acs : vpc :$ regionid :$ accountid : bandwidthp ackage /$ bandwidthp ackageid`
CreateForwardEntry	`acs : vpc :$ regionid :$ accountid : forwardtab le /$ forwardtab leid`
DeleteForwardEntry	`acs : vpc :$ regionid :$ accountid : forwardtab le /$ forwardtab leid`
ModifyForwardEntry	`acs : vpc :$ regionid :$ accountid : forwardtab le /$ forwardtab leid`
DescribeForwardTableEntries	`acs : vpc :$ regionid :$ accountid : forwardtab le /$ forwardtab leid`
CreateSnatEntry	`acs : vpc :$ regionid :$ accountid : snattable /*`
ModifySnatEntry	`acs : vpc :$ regionid :$ accountid : snattable /$ snattablei d`
DescribeSnatTableEntries	`acs : vpc :$ regionid :$ accountid : snattable /$ snattablei d`
DeleteSnatEntry	`acs : vpc :$ regionid :$ accountid : snattable /$ snattablei d`
CreateCustomerGateway	`acs : vpc :$ regionid :$ accountid : customerga teway /*`
DeleteCustomerGateway	`acs : vpc :$ regionid :$ accountid : customerga teway /$ customerga tewayid`

API	ARN format
DescribeCustomerGateway	`acs : vpc :$ regionid :$ accountid : customerga teway /$ customerga tewayid`
DescribeCustomerGateways	`acs : vpc :$ regionid :$ accountid : customerga teway /*`
ModifyCustomerGatewayAttribute	`acs : vpc :$ regionid :$ accountid : customerga teway /$ customerga tewayid`
CreateVpnConnection	`acs : vpc :$ regionid :$ accountid : vpnconnect ion /*`
DeleteVpnConnection	`acs : vpc :$ regionid :$ accountid : vpnconnect ion /$ vpnconnect ionid`
DescribeVpnConnection	`acs : vpc :$ regionid :$ accountid : vpnconnect ion /$ vpnconnect ionid`
DescribeVpnConnections	`acs : vpc :$ regionid :$ accountid : vpnconnect ion /*`
ModifyVpnConnectionAttribute	`acs : vpc :$ regionid :$ accountid : vpnconnect ion /$ vpnconnect ionid`
Downloadvpnconnectionconfig	`acs : vpc :$ regionid :$ accountid : vpnconnect ion /$ vpnconnect ionid`
DeleteVpnGateway	`acs : vpc :$ regionid :$ accountid : vpngateway /$ vpngateway id`
DescribeVpnGateway	`acs : vpc :$ regionid :$ accountid : vpngateway /$ vpngateway id`
DescribeVpnGateways	`acs : vpc :$ regionid :$ accountid : vpngateway /*`
ModifyVpnGatewayAttribute	`acs : vpc :$ regionid :$ accountid : vpngateway /$ vpngateway id`
CreateGlobalAccelerationInstance	`acs : vpc :$ regionid :$ accountid : globalacce lerationin stance /*`
AssociateGlobalAccelerationInstance	`acs : vpc :$ regionid :$ accountid : globalacce lerationin stance /$ globalacce lerationin stanceid`
	`acs : ecs :$ regionid :$ accountid : instance /$ instanceid`

API	ARN format
UnassociateGlobalAccelerationInstance	`acs : ecs :$ regionid :$ accountid : instance /$ instanceid`
ModifyGlobalAccerlationInstanceSpec	`acs : ecs :$ regionid :$ accountid : instance /$ instanceid`
ModifyGlobalAccerlationInstanceAttributes	`acs : ecs :$ regionid :$ accountid : instance /$ instanceid`
DeleteGlobalAccelerationInstance	`acs : ecs :$ regionid :$ accountid : instance /$ instanceid`
DescribeGlobalAccelerationInstances	`acs : vpc :$ regionid :$ accountid : globalacce lerationin stance /*`
AddGlobalAccelerationInstanceIp	`acs : vpc :$ regionid :$ accountid : globalacce lerationin stance /$ globalacce lerationin stanceid` `acs : vpc :$ regionid :$ accountid : eip /$ allocation id`
RemoveGlobalAccelerationInstanceIp	`acs : vpc :$ regionid :$ accountid : globalacce lerationin stance /$ globalacce lerationin stanceid` `acs : vpc :$ regionid :$ accountid : eip /$ allocation id`
DescribeServerRelatedGlobalAccelerationInstances	`acs : vpc :$ regionid :$ accountid : globalacce lerationin stance /*`
	`acs : ecs :$ regionid :$ accountid : instance /$ instanceid`

5 Error codes

You can view all error codes in the VP API error center to troubleshoot.

6 Virtual Private Cloud (VPC)

6.1 CreateVpc

Creates a VPC.

Note the following before you call this API action:

- You can only specify one IP address range for a VPC. You can choose from the CIDR blocks 10.0.0.0/8, 172.16.0.0/12, 192.168.0.0/16, and their subnets. The netmask of the CIDR block can be 8 bits to 24 bits. The default CIDR block is 172.16.0.0/12.
- The CIDR block cannot be modified after a VPC is created.
- The number of cloud instances in each VPC cannot exceed 15,000.
- A VRouter and a route table are automatically created after a VPC is created.
- Up to three customer-side CIDR blocks are supported by a VPC. If a customer-side CIDR block is a subset of another customer-side CIDR block, the one with the shorter subnet mask takes effect. For example, if there are two CIDR blocks 10.0.0.0/8 and 10.1.0.0/16, only the CIDR block 10.0.0.0/8 takes effect.

Debug

Use OpenAPI Explorer to perform debug operations and generate SDK code examples.

Request parameters

Parameter	Type	Required?	Example value	Description
`Action`	String	Yes	CreateVpc	The name of this action. Value: CreateVpc
`RegionId`	String	Yes	cn-hangzhou	The ID of the region to which the VPC belongs. To query the region ID, call DescribeRegions.

Parameter	Type	Required?	Example value	Description
`CidrBlock`	String	No	172.16.0.0/12	Optional. The IP address range of the VPC in CIDR block form. The following IP address ranges and their subnets can be used: · 10.0.0.0/8 · 172.16.0.0/12 (default) · 192.168.0.0/16
`ClientToken`	String	No	sha223ndd2333	Optional. The client token that guarantees the idempotence of the request. The value of this parameter is generated by a client. It is unique among all requests and can contain a maximum of 64 ASCII characters.
`Description`	String	No	This is my first Vpc.	Optional. The description of the VPC. The description must be 2 to 256 characters in length. It must start with a letter, but cannot start with `http://` or `https://`.
`EnableIpv6`	Boolean	No	false	Optional. Indicates whether to enable the IPv6 CIDR block. Valid values: · false (default): Disable the IPv6 CIDR block. · true: Enable the IPv6 CIDR block.

Parameter	Type	Required?	Example value	Description
`Ipv6CidrBlock`	String	No	2408:4004:0:6axx::/56	Optional. The IPv6 CIDR block of the VPC.
`ResourceGroupId`	String	No	rg-acfmxazb4ph6aiy****	Optional. The ID of the resource group.

Parameter	Type	Required?	Example value	Description
`UserCidr`	String	No	189.16.0.0/12	Optional. The customer-side CIDR block. Separate multiple CIDR blocks by using commas (,). Up to three CIDR blocks are supported. A VPC uses 10.0.0.0/8, 172.16.0.0/12, 192.168.0.0/16, 100.64.0.0/10, and the VPC CIDR block for intranet communication by default. If the ECS instances and Elastic IP Addresses (EIPs) that have access to the Internet (the ECS instances are assigned public IP addresses, or the ECS instances or their ENIs are associated with public IP addresses or configured with DNAT entries) visit the IP addresses outside the preceding CIDR blocks, the requests are forwarded to the Internet through the public IP addresses. If you want the requests (for example, from a VPC that is in a hybrid network environment built through VPN, Express Connect, or CEN) to be forwarded over the intranet according to a route table, you must set the destination CIDR blocks of the requests as the UserCidr of the corresponding ECS instance or Elastic Network Interface (ENI). After that, the requests from that VPC will

Parameter	Type	Required?	Example value	Description
`VpcName`	String	No	vpc-hp3ld1aq7kl4k7skh****	Optional. The name of the VPC. The name must be 2 to 128 characters in length and can contain letters, numbers, periods (.), underscores (_), and hyphens (-). The name must start with a letter, and cannot start with `http://` or `https://`.

Response parameters

Parameter	Type	Example value	Description
VpcId	String	vpc-bp15zckdt37pq72zv****	The ID of the VPC.
VRouterId	String	vrt-bp1lhl0taikrteen8****	The ID of the VRouter.
RouteTableId	String	vtb-bp145q7glnuzdv****	The ID of the route table.
RequestId	String	0ED8D006-F706-4D23-88ED-E11ED28DCAC0	The ID of the request.
ResourceGroupId	String	rg-acfmxazb4ph6aiy****	The ID of the resource group.

Examples

Request example

```
https://vpc.aliyuncs.com/?Action=CreateVpc
&RegionId=cn-hangzhou
&<CommonParameters>
```

Response example

`XML` format

```
<CreateVpcResponse>
```

```
      < ResourceGr  oupId > rg - acfmxazb4p  h ****</ ResourceGr
 oupId >
   < RequestId > 8B2F5262 - 6B57 - 43F2 - 97C4 - 971425462D  FE </
 RequestId >
   < RouteTable  Id > vtb - bp1krxxzp0  c2 ****</ RouteTable  Id >
   < VRouterId > vrt - bp1jcg5cmx  jbl9xgc ****</ VRouterId >
   < VpcId > vpc - bp1qpo0kug  3a20qqe ****</ VpcId >
</ CreateVpcR  esponse >
```

`JSON` format

```
{
 " RequestId ":" 8B2F5262 - 6B57 - 43F2 - 97C4 - 971425462D  FE ",
 " ResourceGr  oupId ":" rg - acfmxazb4p  h ****",
 " RouteTable  Id ":" vtb - bp1krxxzp0  c29 ****",
 " VpcId ":" vpc - bp1qpo0kug  3a20qqe ****",
 " VRouterId ":" vrt - bp1jcg5cmx  jbl9xgc ****"
}
```

Errors

HTTP status code	Error code	Error message	Description
404	InvalidRegionId.NotFound	Specified value of " regionId" is not supported .	The specified RegionId does not exist.
400	InvalidParameter	Specified CIDR block is not valid	The specified CIDR block is invalid.
400	ResourceNotAvailable	Resource you requested is not available in this region or zone.	Vswitches are not supported in the specified region or zone.
400	InvalidVpcName.Malformed	Specified VPC name is not valid.	The format of the VPC name is invalid.
400	InvalidVpcDiscription.Malformed	Specified VPC description is not valid.	The format of the description is invalid.
403	Forbbiden	User not authorized to operate on the specified resource.	You are not authorized to operate on this resource.
400	QuotaExceeded.Vpc	VPC quota exceeded.	The number of VPCs under the account has reached the quota.

HTTP status code	Error code	Error message	Description
400	ResourceNotAvailable.Vpc	Resource you requested is not available in this region or zone.	The resource is unavailable in this region or zone.
400	InvalidParameter	Specified UserCidr invalid format.	The format of the customer-side CIDR block is invalid.
400	InvalidParameter	Specified UserCidr Subnet mask is not valid .	The subnet mask of the customer-side CIDR block is invalid.
400	InvalidUserCidr.Quota	Specified UserCidr number is greater than 3.	The UserCidr has reached the quota.
400	InvalidUserCidr.Malformed	Specified UserCidr overlapping in of 100.64.0.0/10.	The specified UserCidr overlaps with 100.64.0.0/10.
500	InternalError	The request processing has failed due to some unknown error.	The request failed to be processed due to unknown errors.

For a list of error codes, visit the API Error Center.

6.2 DeleteVpc

Deletes a VPC.

Note the following before deleting a VPC:

- You must release or remove all resources in the VPC, such as VSwitches, instances, router interfaces, and HaVip.
- Only VPCs in the available status can be deleted.

Debug

By using OpenAPI Explorer, you can easily debug APIs, automatically generate SDK code examples, and quickly search for APIs.

Request parameters

Parameter	Type	Required?	Example value	Description
`Action`	String	Yes	DeleteVpc	The name of this action. Value: `DeleteVpc`
`RegionId`	String	Yes	cn-hangzhou	The ID of the region to which the VPC belongs.
`VpcId`	String	Yes	vpc-123456	The ID of the VPC.

Response parameters

Parameter	Type	Example value	Description
`RequestId`	String	0ED8D006-F706-4D23-88ED-E11ED28DCAC0	The ID of the request.

Examples

Request example

```
 https :// vpc . aliyuncs . com /? Action = DeleteVpc
& VpcId =  vpc - 123456
&< CommonPara  meters >
```

Response example

- XML format

```
< DeleteVpcR  esponse >
  < RequestId > 0ED8D006 - F706 - 4D23 - 88ED - E11ED28DCA  C0 </
 RequestId >
</ DeleteVpcR  esponse >
```

- JSON format

```
{
 " RequestId ":" 0ED8D006 - F706 - 4D23 - 88ED - E11ED28DCA  C0 "
```

```
}
```

Error codes

HTTP status code	Error code	Error message	Description
403	OperationDenied	The operation is not supported in this status.	This operation cannot be performed in this status.
403	OperationDenied	The snapshot creation for the specified disk is not finished yet.	The snapshot creation of the disk has not been completed yet.
400	IncorrectVpcStatus	Current VPC status does not support this operation.	The current status of VPC does not support this action.
400	DependencyViolation.RouteEntry	Specified object has dependent resources	The specified operation failed to delete the VPC due to the custom route entries added to the VPC.
400	DependencyViolation.Instance	Specified object has dependent resources	The specified object has associated resources.
400	DependencyViolation.VSwitch	Specified object has dependent resources	This VPC has dependent VSwitches and cannot be deleted. Delete all VSwitches in the VPC first.
400	DependencyViolation.SecurityGroup	Specified object has dependent resources	This VPC has dependent security groups and cannot be deleted. Delete all security groups in the VPC first.
404	InvalidVpcId.NotFound	Specified VPC does not exist.	The specified VPC does not exist.
400	DependencyViolation.RouteInterface	Specified object has dependent route interface.	The specified VSwitch has a router interface connected and cannot be deleted.
400	DependencyViolation.Tunnel	Specified object has dependent tunnel.	The specified object has associated tunnels.

HTTP status code	Error code	Error message	Description
500	InternalError	The request processing has failed due to some unknown error.	An error occurred while the request was being processed.
400	Dependency Violation. NatGateway	Specified object has dependent resources NatGateway.	The dependent NAT Gateway must be deleted first before the specified VPC can be deleted.
400	Dependency Violation. RouterInterface	Specified object has dependent resources RouterInterface.	The specified object has associated router interfaces.
400	Dependency Violation. SecurityGroup	Specified object has dependent resources SecurityGroup.	This VPC has dependent security groups and cannot be deleted. Delete all security groups in the VPC first.
400	Forbidden. VpcNotFound	Specified VPC can not found.	The specified VPC does not exist.
400	Forbbiden	Active custom route in vpc .	You need to add a custom route entry in the VPC.

See common errors

6.3 DescribeVpcs

Queries VPCs in a region.

Debug

Debug in OpenAPI Explorer to have an SDK code example automatically generated.

Request parameters

Parameter	Type	Required?	Example value	Description
`Action`	String	Yes	DescribeVpcs	The action to perform. Valid value: `DescribeVpcs`
`RegionId`	String	No	cn-hangzhou	The region where the VPCs belong. You can obtain the region ID by calling the `DescribeRegions` API.
`Isdefault`	Boolean	No	false	Indicates whether to query the default VPC in the specified region. Valid value: · `true` (Default): Queries all VPCs in the specified region. · `false` : Does not query the default VPC.
`PageNumber`	Integer	No	10	The number of pages to return. The default value is `1` .
`PageSize`	Integer	No	1	The number of rows per page. The maximum value is `50` , and the default value is `10` .
`ResourceGroupId`	String	No	xxxxx	The ID of the resource group to which the VPCs belong.
`Tag.N.Key`	String	No	Tag.1.name	The filter condition. The value range of N is 1-5.

Parameter	Type	Required?	Example value	Description
`Tag.N.Value`	String	No	Tag.1.myvpc	The value of the filter condition. The value range of N is 1-5.
`VpcId`	String	No	vpc-257gq64xxxxx	The ID of the VPC. You can specify up to 20 VPC IDs. Separate multiple VPC IDs with commas.
`VpcName`	String	No	Vpc-1	The name of the VPC.

Response parameters

Parameter	Type	Example value	Description
Vpcs			A list of VPCs.
└CidrBlock	String	10.0.0.0/24	The CIDR block of the VPC.
└CreationTime	String	2018-04-18T15:02:37Z	The time at which the VPC was created.
└Description	String	description	The description of the VPC.
└Ipv6CidrBlock	String	224.224.223.212/24	The IPv6 CIDR block of the VPC.
└IsDefault	Boolean	false	Whether the VPC is the default VPC in this region.
└NatGatewayIds		nat-245xxxftwt4567	The ID of the NAT gateway.
└RegionId	String	cn-hangzhou	The ID of the region to which the VPC belongs.
└ResourceGroupId	String	rg-acfmxazb4ph6aiy	The ID of the resource group.

Parameter	Type	Example value	Description
└RouterTableIds		vtb-bp145q7glnuzdvzu21pom	The ID of the router table.
└Status	String	Available	The status of the VPC. Valid values: · Pending: unavailable, being configured · Available: available
└Tags			The tags of the VPC.
└Key	String	env	The key of the tag.
└Value	String	internal	The value of the tag.
└UserCidrs		10.0.0.0/8	A list of customer-side CIDR blocks.
└VRouterId	String	vrt-bp1lhl0taikrteen80oxx	The ID of the VRouter.
└VSwitchIds		{ "VSwitchId": [] }	A list of VSwitches.
└VpcId	String	vpc-bp15zckdt37pq72zvw3	The ID of the VPC.
└VpcName	String	vpc1	The name of the VPC.
TotalCount	Integer	1	The number of queried entries.
PageNumber	Integer	1	The current page number.
PageSize	Integer	21	The number of entries on the current page.
RequestId	String	9B941224-B647-4644-A746-641906D6B954	The ID of the request.

Examples

Request example

```
 https :// vpc . aliyuncs . com /? RegionId = cn - hangzhou
&< CommonPara  meters >
```

Response example

- **XML format**

```
< DescribeVp  csResponse >
  < PageNumber > 1 </ PageNumber >
  < Vpcs >
    < Vpc >
      < VpcName />
      < Descriptio  n />
      < IsDefault > false </ IsDefault >
      < ResourceGr  oupId > rg - acfmxazb4p  h6aiy </ ResourceGr
 oupId >
      < UserCidrs />
      < NatGateway  Ids />
      < RouterTabl  eIds >
        < RouterTabl  eIds > vtb - bp1krxxzp0  c29fmontba  l </
 RouterTabl  eIds >
      </ RouterTabl  eIds >
      < VpcId > vpc - bp1qpo0kug  3a20qqe9h7  v </ VpcId >
      < VRouterId > vrt - bp1jcg5cmx  jbl9xgc58b  w </ VRouterId >
      < CreationTi  me > 2018 - 12 - 06T06 : 11 : 55Z </ CreationTi
 me >
      < Status > Available </ Status >
      < CidrBlock > 172 . 16 . 0 . 0 / 12 </ CidrBlock >
      < VSwitchIds />
      < RegionId > cn - hangzhou </ RegionId >
      < Ipv6CidrBl  ock />
    </ Vpc >
    < Vpc >
      < VpcName > kttest </ VpcName >
      < Descriptio  n />
      < IsDefault > false </ IsDefault >
      < ResourceGr  oupId > rg - acfmxazb4p  h6aiy </ ResourceGr
 oupId >
      < UserCidrs />
      < NatGateway  Ids />
      < RouterTabl  eIds >
        < RouterTabl  eIds > vtb - bp1blq1oh0  ybfnpm1bh2  0 </
 RouterTabl  eIds >
      </ RouterTabl  eIds >
      < VpcId > vpc - bp1aevy8so  fi8mh1qc5c  m </ VpcId >
      < VRouterId > vrt - bp149ve7ye  yvio4ncklx  z </ VRouterId >
      < CreationTi  me > 2018 - 11 - 08T08 : 54 : 03Z </ CreationTi
 me >
      < Status > Available </ Status >
      < CidrBlock > 192 . 168 . 0 . 0 / 16 </ CidrBlock >
      < VSwitchIds >
        < VSwitchId > vsw - bp12mw1f8k  3jgygk9bml  j </ VSwitchId >
      </ VSwitchIds >
      < RegionId > cn - hangzhou </ RegionId >
      < Ipv6CidrBl  ock />
    </ Vpc >
  </ Vpcs >
  < TotalCount > 2 </ TotalCount >
  < PageSize > 10 </ PageSize >
  < RequestId > C6532AA8 - D0F7 - 497F - A8EE - 094126D441  F5 </
 RequestId >
</ DescribeVp  csResponse >
```

- **JSON format**


```
{
 " PageNumber ": 1 ,
 " TotalCount ": 2 ,
 " Vpcs ":{
  " Vpc ":[
   {
    " VpcName ":"",
    " Descriptio  n ":"",
    " IsDefault ": false ,
    " ResourceGr  oupId ":" rg - acfmxazb4p  h6aiy ",
    " UserCidrs ":{
     " UserCidr ":[]
    },
    " NatGateway  Ids ":{
     " NatGateway  Ids ":[]
    },
    " RouterTabl  eIds ":{
     " RouterTabl  eIds ":[
      " vtb - bp1krxxzp0  c29fmontba  l "
     ]
    },
    " VpcId ":" vpc - bp1qpo0kug  3a20qqe9h7  v ",
    " VRouterId ":" vrt - bp1jcg5cmx  jbl9xgc58b  w ",
    " CreationTi  me ":" 2018 - 12 - 06T06 : 11 : 55Z ",
    " Status ":" Available ",
    " CidrBlock ":" 172 . 16 . 0 . 0 / 12 ",
    " VSwitchIds ":{
     " VSwitchId ":[]
    },
    " RegionId ":" cn - hangzhou ",
    " Ipv6CidrBl  ock ":""
   },
   {
    " VpcName ":" kttest ",
    " Descriptio  n ":"",
    " IsDefault ": false ,
    " ResourceGr  oupId ":" rg - acfmxazb4p  h6aiy ",
    " UserCidrs ":{
     " UserCidr ":[]
    },
    " NatGateway  Ids ":{
     " NatGateway  Ids ":[]
    },
    " RouterTabl  eIds ":{
     " RouterTabl  eIds ":[
      " vtb - bp1blq1oh0  ybfnpm1bh2  0 "
     ]
    },
    " VpcId ":" vpc - bp1aevy8so  fi8mh1qc5c  m ",
    " VRouterId ":" vrt - bp149ve7ye  yvio4ncklx  z ",
    " CreationTi  me ":" 2018 - 11 - 08T08 : 54 : 03Z ",
    " Status ":" Available ",
    " CidrBlock ":" 192 . 168 . 0 . 0 / 16 ",
    " VSwitchIds ":{
     " VSwitchId ":[
      " vsw - bp12mw1f8k  3jgygk9bml  j "
     ]
    },
    " RegionId ":" cn - hangzhou ",
```

```
    " Ipv6CidrBl  ock ":""
   }
  ]
 },
 " PageSize ": 10 ,
 " RequestId ":" C6532AA8 - D0F7 - 497F - A8EE - 094126D441  F5 "
}
```

Error codes

HTTP code	Error code	Error message	Description
500	InternalError	The request processing has failed due to some unknown error.	An error occurred while the request was being processed.

View the error codes of the product

6.4 ModifyVpcAttribute

Modifies the name and description of a VPC.

Debug

Use OpenAPI Explorer to perform debug operations and generate SDK code examples.

Request parameters

Parameter	Type	Required?	Example value	Description
`Action`	String	Required	ModifyVpcAttribute	The name of this action. Value: ModifyVpcAttribute.
`RegionId`	String	Yes	cn-hangzhou	The region to which the VPC belongs.
`VpcId`	String	Yes	vpc-bp1qtbach57ywecfxxxxxx	The ID of the VPC.
`CidrBlock`	String	No	192.168.0.0/24	The CIDR block of the VPC.

Parameter	Type	Required?	Example value	Description
`Description`	String	No	This is VPC1.	The description of the VPC. The description must be 2 to 256 characters in length. It must start with a letter but cannot start with `http://` or `https://`.
`EnableIPv6`	Boolean	No	true	Indicates whether to enable IPv6 CIDR blocks. Valid values: · true: Enable. · false: Do not enable.
`VpcName`	String	No	Vpc-1	The name of the VPC. The instance name must be 2 to 128 characters in length and can contain letters, numbers, periods (.), underscores (_), and hyphens (-). The name must start with a letter. It cannot start with `http://` or `https://`.

Response parameters

Parameter	Type	Example value	Description
RequestId	String	0ED8D006-F706-4D23-88ED-E11ED28DCAC0	The ID of the request.

Examples

Request example

```
https://vpc.aliyuncs.com/?Action=ModifyVpcAttribute
&VpcId=vpc-bp1qtbach57ywecfxxxxx
&VpcName=Vpc-1
```

```
&< CommonPara  meters >
```

Response example

`XML` **format**

```
< ModifyVpcA  ttributeRe  sponse >
  < RequestId > 0ED8D006 - F706 - 4D23 - 88ED - E11ED28DCA  C0 </
 RequestId >
</ ModifyVpcA  ttributeRe  sponse >
```

`JSON` **format**

```
{
 " RequestId ":" 43B72D30 - 25E1 - 4FA3 - 96A8 - 89374A521D  1A "
}
```

Error codes

HTTP status code	Error code	Error message	Description
404	InvalidVpcId.NotFound	Specified VPC does not exist.	The specified VPC does not exist.
400	InvalidVpcName.Malformed	Specified VPC name is not valid.	The name format of the specified VPC is invalid.
400	InvalidVpcDiscription.Malformed	Specified VPC description is not valid.	The format of the specified VPC description is invalid.
400	InvalidParameter	Specified UserCidr invalid format.	The format of the specified UserCidr is invalid.
400	InvalidParameter	Specified UserCidr Subnet mask is not valid.	The specified subnet mask for UserCidr is invalid.
400	InvalidUserCidr.Quota	Specified UserCidr number is greater than 3.	The number of UserCidrs has reached the quota.
400	InvalidUserCidr.Malformed	Specified UserCidr overlapping in of 100.64.0.0/10.	The specified UserCidr overlaps with 100.64.0.0/10.
400	IncorrectVpcStatus	Current VPC status does not support this operation.	The current VPC status does not support this operation.

HTTP status code	Error code	Error message	Description
400	InvalidCidrBlock.Malformed	Specified CIDR block is not valid.	The format of the specified CIDR block is invalid.

See common error codes

6.5 DescribeVpcAttribute

Queries the configurations of a VPC.

Debug

By using OpenAPI Explorer, you can easily debug APIs, automatically generate SDK code examples, and quickly search for APIs.

Request parameters

Parameter	Type	Required?	Example value	Description
`Action`	String	Yes	DescribeVpcAttribute	The name of this action. Value: `DescribeVpcAttribute`
`RegionId`	String	Yes	cn-hangzhou	The ID of the region where the VPC belongs.
`VpcId`	String	Yes	vpc-bp18sth14qii3pnvodkvt	The ID of the VPC to be queried.
`IsDefault`	Boolean	No	false	Indicates whether the VPC is the default VPC. Valid values: · `false` : The VPC is not the default VPC. · `true` : The VPC is the default VPC.

Response parameters

Parameter	Type	Example value	Description
Associated Cens	N/A	N/A	A list of CEN instances attached to the VPC.
└CenId	String	cen-7qthudw0ll6jmc4gsu	The ID of the CEN instance.
└CenOwnerId	Long	1231579085529123	The ID of the account to which the CEN instance belongs.
└CenStatus	String	Attached	The status of the CEN instance.
CidrBlock	String	192.168.0.0/16	The private CIDR block of the VPC.
ClassicLinkEnabled	Boolean	false	Indicates whether the ClassicLink function is enabled.
CloudResources	N/A	N/A	A list of cloud resources under the VPC.
└ResourceCount	Integer	1	The number of the resources under the VPC.
└ResourceType	String	VSwitch	The type of the resources under the VPC.
CreationTime	String	2018-10-16T07:31:09Z	The time at which the VPC was created.
Description	String	VPC	The description of the VPC.
Ipv6CidrBlock	String	224.223.234.233/24	The IPv6 CIDR block of the VPC.
IsDefault	Boolean	false	Indicates whether the VPC is the default VPC.
RegionId	String	cn-hangzhou	The ID of the region to which the VPC belongs.

Parameter	Type	Example value	Description
RequestId	String	7486AE4A-129D-43DB-A714-2432C074BA04	The ID of the request.
ResourceGroupId	String	rg-acfmxazb4ph6aiy	The ID of the resource group.
Status	String	Available	The status of the VPC.
UserCidrs	N/A	172.16.0.1/24	The customer-side CIDR blocks. Separate CIDR blocks with commas . You can specify up to three CIDR blocks.
VRouterId	String	vrt-bp1jso6ng1at0ajsc8mbe	The ID of the VRouter.
VSwitchIds	N/A	{"VSwitchId": ["vsw-bp14cagpfysr29feg5t97"]}	A list of VSwitches under the VPC.
VpcId	String	vpc-bp18sth14qii3pnvodkvt	The ID of the VPC.
VpcName	String	doctest2	The name of the VPC.

Examples

Request example

```
 https :// vpc . aliyuncs . com /? Action = DescribeVp  cAttribute
& RegionId = cn - hangzhou
& VpcId = vpc - bp18sth14q  ii3pnvodkv  t
&< CommonPara  meters >
```

Response example

- XML format

```
< DescribeVp  cAttribute  Response >
  < VpcName > doctest2 </ VpcName >
  < Descriptio  n />
  < IsDefault > false </ IsDefault >
  < ResourceGr  oupId > rg - acfmxazb4p  h6aiy </ ResourceGr  oupId
 >
  < UserCidrs />
  < ClassicLin  kEnabled > false </ ClassicLin  kEnabled >
  < Associated  Cens >
```

```
    < Associated  Cen >
      < CenStatus > Attached </ CenStatus >
      < CenOwnerId > 1231579085  529123 </ CenOwnerId >
      < CenId > cen - 7qthudw0ll  6jmc4gsu </ CenId >
    </ Associated  Cen >
  </ Associated  Cens >
  < VRouterId > vrt - bp1jso6ng1  at0ajsc8mb  e </ VRouterId >
  < VpcId > vpc - bp18sth14q  ii3pnvodkv  t </ VpcId >
  < CreationTi  me > 2018 - 10 - 16T07 : 31 : 09Z </ CreationTi  me
 >
  < CidrBlock > 192 . 168 . 0 . 0 / 16 </ CidrBlock >
  < Status > Available </ Status >
  < VSwitchIds >
    < VSwitchId > vsw - bp14cagpfy  sr29feg5t9  7 </ VSwitchId >
  </ VSwitchIds >
  < RequestId > 7486AE4A - 129D - 43DB - A714 - 2432C074BA  04 </
 RequestId >
  < RegionId > cn - hangzhou </ RegionId >
  < CloudResou  rces >
    < CloudResou  rceSetType >
      < ResourceTy  pe > VSwitch </ ResourceTy  pe >
      < ResourceCo  unt > 1 </ ResourceCo  unt >
    </ CloudResou  rceSetType >
    < CloudResou  rceSetType >
      < ResourceTy  pe > VRouter </ ResourceTy  pe >
      < ResourceCo  unt > 1 </ ResourceCo  unt >
    </ CloudResou  rceSetType >
    < CloudResou  rceSetType >
      < ResourceTy  pe > RouteTable </ ResourceTy  pe >
      < ResourceCo  unt > 1 </ ResourceCo  unt >
    </ CloudResou  rceSetType >
  </ CloudResou  rces >
</ DescribeVp  cAttribute  Response >
```

- **JSON format**

```
{
 " VpcName ":" doctest2 ",
 " Descriptio  n ":"",
 " IsDefault ": false ,
 " ResourceGr  oupId ":" rg - acfmxazb4p  h6aiy ",
 " UserCidrs ":{
  " UserCidr ":[]
 },
 " ClassicLin  kEnabled ": false ,
 " Associated  Cens ":{
  " Associated  Cen ":[
   {
    " CenStatus ":" Attached ",
    " CenOwnerId ":" 1231579085  529123 ",
    " CenId ":" cen - 7qthudw0ll  6jmc4gsu "
   }
  ]
 },
 " VRouterId ":" vrt - bp1jso6ng1  at0ajsc8mb  e ",
 " VpcId ":" vpc - bp18sth14q  ii3pnvodkv  t ",
 " CreationTi  me ":" 2018 - 10 - 16T07 : 31 : 09Z ",
 " CidrBlock ":" 192 . 168 . 0 . 0 / 16 ",
 " Status ":" Available ",
 " VSwitchIds ":{
  " VSwitchId ":[
   " vsw - bp14cagpfy  sr29feg5t9  7 "
  ]
```

```
  },
  " RegionId ":" cn - hangzhou ",
  " RequestId ":" 7486AE4A - 129D - 43DB - A714 - 2432C074BA  04 ",
  " CloudResou  rces ":{
   " CloudResou  rceSetType ":[
    {
     " ResourceTy  pe ":" VSwitch ",
     " ResourceCo  unt ": 1
    },
    {
     " ResourceTy  pe ":" VRouter ",
     " ResourceCo  unt ": 1
    },
    {
     " ResourceTy  pe ":" RouteTable ",
     " ResourceCo  unt ": 1
    }
   ]
  }
}
```

Error codes

HTTP status code	Error code	Error message	Description
500	InternalError	The request processing has failed due to some unknown error.	An error occurred while the request was being processed.
400	IncorrectVpcStatus	Current VPC status does not support this operation.	The status of VPC does not support this action.
404	InvalidVpcId.NotFound	Specified VPC does not exist.	The specified VPC does not exist.

See common error codes

6.6 GrantInstanceToCen

Grants the permission of a network instance to a CEN instance.

Limits

Before you can attach a network instance under an account to a CEN instance under another account, you must use this API to authorize the CEN instance from the account where the network instance is located.

Note:

When you call this API, you must use `vpc.aliyuncs.com` as the domain name. The API version is the one released on April 28, 2016.

Debug

Use OpenAPI Explorer to perform debug operations and generate SDK code examples.

Request parameters

Parameter	Type	Required?	Example value	Description
`Action`	String	Yes	GrantInstanceToCen	The name of this action. Value: GrantInstanceToCen.
`CenId`	String	Yes	cen-7qthudw0ll6jmc****	The ID of the CEN instance to be authorized.
`CenOwnerId`	Long	Yes	123456789	The UID of the account to which the CEN instance belongs.
`InstanceId`	String	Yes	vpc-uf6o8d1dj8sjwxi6o****	The ID of the network instance.
`InstanceType`	String	Yes	VPC	The type of the network instance. Valid values: · VPC: VPC · VBR: VBR · CCN: CCN
`RegionId`	String	Yes	cn-hangzhou	The ID of the region to which the network instance belongs.

Parameter	Type	Required?	Example value	Description
ClientToken	String	No	0c593ea1-3bea-11e9-b96b-88e9fe637760	The client token that guarantees the idempotence of the request. The value of this parameter is generated by the client. The value must be unique among different requests and must be 1 to 64 ASCII characters in length.

Response parameters

Parameter	Type	Example value	Description
RequestId	String	473469C7-AA6F-4DC5-B3DB-A3DC0DE3C83E	The ID of the request.

Examples

Request example

```
 http ( s )://[ Endpoint ]/?  Action = GrantInsta  nceToCen
& CenId = cen - 7qthudw0ll  6jmc ****
& CenOwnerId = 123456789
& InstanceId = vpc - uf6o8d1dj8  sjwxi6o ****
& RegionId = cn - hangzhou
&< CommonPara  meters >
```

Response example

`XML` format

```
< GrantInsta  nceToCenRe  sponse >
      < RequestId > 0C2EE7A8 - 74D4 - 4081 - 8236 - CEBDE3BBCF  50 </
 RequestId >
</ GrantInsta  nceToCenRe  sponse >
```

`JSON` format

```
{
 " RequestId ":" 0C2EE7A8 - 74D4 - 4081 - 8236 - CEBDE3BBCF  50 "
```

```
}
```

Errors

For a list of error codes, visit the API Error Center.

6.7 RevokeInstanceFromCen

Revokes the authorization of a network instance from a CEN instance.

Limits

- When you call this API, you must use `vpc . aliyuncs . com` as the domain name.
- The API version must be the one released on April 28, 2016.

Debug

Use OpenAPI Explorer to perform debug operations and generate SDK code examples.

Request parameters

Parameter	Type	Required?	Example value	Description
`Action`	String	Yes	RevokeInstanceFromCen	The name of this action. Value: RevokeInstanceFromCen.
`CenId`	String	Yes	cen-7qthudw0ll6jmc****	The ID of the CEN instance from which you want to revoke the authorization of the network instance.
`CenOwnerId`	Long	Yes	123456789	The UID of the account to which the CEN instance belongs.
`InstanceId`	String	Yes	vpc-uf6o8d1dj8sjwxi6o****	The ID of the network instance.

Parameter	Type	Required?	Example value	Description
InstanceType	String	Yes	VPC	The type of the network instance. Valid values: · VPC: VPC · VBR: VBR · CCN: CCN
RegionId	String	Yes	cn-hangzhou	The ID of the region to which the network instance belongs.
ClientToken	String	No	0c593ea1-3bea-11e9-b96b-88e9fe637760	The client token that guarantees the idempotence of the request. The value of this parameter is generated by the client. The value must be unique among different requests and must be 1 to 64 ASCII characters in length.

Response parameters

Parameter	Type	Example value	Description
RequestId	String	473469C7-AA6F-4DC5-B3DB-A3DC0DE3C83E	The ID of the request.

Examples

Request example

```
 http ( s )://[ Endpoint ]/?  Action = RevokeInst  anceFromCe  n
& CenId = cen - 7qthudw0ll  6jmc ****
& CenOwnerId = 123456789
& InstanceId = vpc - uf6o8d1dj8  sjwxi6o ****
& RegionId = cn - hangzhou
&< CommonPara  meters >
```

Response example

`XML` format

```
< RevokeInst  anceFromCe  nResponse >
      < RequestId > 0C2EE7A8 - 74D4 - 4081 - 8236 - CEBDE3BBCF  50 </
 RequestId >
</ RevokeInst  anceFromCe  nResponse >
```

`JSON` format

```
{
 " RequestId ":" 0C2EE7A8 - 74D4 - 4081 - 8236 - CEBDE3BBCF  50 "
}
```

Errors

For a list of error codes, visit the API Error Center.

7 VSwitch

7.1 DescribeVSwitches

Queries one or more VSwitches.

This API supports query pagination and each page contains 10 entries by default.

This API only verifies the validity of parameters and does not verify the dependency relationship between the parameters. The returned result is the intersection of all conditions.

Debug

By using API Explorer, you can easily debug APIs, automatically generate SDK code examples, and quickly search for APIs.

Request parameters

Parameter	Type	Required?	Example value	Description
`Action`	String	Yes	DescribeVSwitches	The name of this action. Value: `DescribeVSwitches`
`RegionId`	String	Yes	cn-hangzhou	The region of the VPC to which the VSwitch belongs. To query the region ID, call `DescribeRegions`.

Parameter	Type	Required?	Example value	Description
`Isdefault`	Boolean	No	true	Indicates whether to query the default VSwitch in the specified region. · `true` (default value): Query all VSwitches in the specified region. · `false` : Do not query the default VSwitch.
`OwnerAccount`	String	No		The owner account.
`PageNumber`	Integer	No	10	The number of pages to return. Default value: `1` .
`PageSize`	Integer	No	1	The number of rows per page. Maximum value: `50` . Default value: `10` .
`ResourceGroupId`	String	No	1234567	The ID of the resource group.
`RouteTableId`	String	No	vtb-bp145q7glnuzdvzu21pom	The ID of the route table.
`VSwitchId`	String	No	vsw-23dsf3xxxxxxxxx	The ID of the VSwitch.
`VSwitchName`	String	No	VSwitch-1	The name of the VSwitch.
`VpcId`	String	No	vpc-25eq58plxxxxxxxxx	The ID of the VPC.

Parameter	Type	Required?	Example value	Description
`ZoneId`	String	No	cn-hangzhou-d	The ID of the zone to which the VSwitch belongs. To query the region ID, call `DescribeZones`.

Response parameters

Parameter	Type	Example value	Description
VSwitches	N/A	N/A	A list of VSwitches.
└AvailableIpAddressCount	Long	1	The number of available IP addresses in the VSwitch.
└CidrBlock	String	172.16.0.0/24	The CIDR block of the VSwitch.
└CreationTime	String	2018-01-18T12:43:57Z	The time when the VSwitch was created.
└Description	String	This is my vswitch.	The description of the VSwitch.
└Ipv6CidrBlock	String	2408:4004:0:2900::/64	The IPv6 CIDR block of the VSwitch.
└IsDefault	Boolean	true	Whether the VSwitch is the default VSwitch in the zone.
└ResourceGroupId	String	123456	The ID of the resource group to which the VSwitch belongs.
└RouteTable	N/A	N/A	The information of the route table.
└RouteTableId	String	vrt-123456	The ID of the route table associated with the VSwitch.

Parameter	Type	Example value	Description
└RouteTableType	String	System	The type of the route table: · System: system route table · Custom: custom route table
└Status	String	Available	The status of the VSwitch. Valid values: · Pending: being configured · Available: available
└VSwitchId	String	vsw-xxxxxxxxxxxxxxxxx	The ID of the VSwitch.
└VSwitchName	String	VSwitch-1	The name of the VSwitch.
└VpcId	String	vpc-234asxxxxxxxxxxxxx	The ID of the VPC to which the VSwitch belongs.
└ZoneId	String	cn-hangzhou-d	The ID of the zone to which the VSwitch belongs.
TotalCount	Integer	10	The number of queried entries.
PageNumber	Integer	10	The current page number.
PageSize	Integer	10	The number of rows per page.
RequestId	String	9A572171-4E27-40D1-BD36-D26XXXXXXXXX	The ID of the request.

Examples

Request example

```
http ( s )://[ Endpoint ]/?< CommonPara  meters >
```

Response example

- XML format

```
< DescribeVS  witchesRes  ponse >
  < RequestId > 9A572171 - 4E27 - 40D1 - BD36 - D26C9E71E2  9E </
 RequestId >
  < VSwitches >
    < VSwitch >
      < VSwitchId >  vsw - 25b7pv15t  </ VSwitchId >
      < Status > Available </ Status >
      < CidrBlock > 172 . 16 . 1 . 0 / 24 </ CidrBlock >
      < ZoneId > cn - beijing - a </ ZoneId >
      < AvailableI  pAddressCo  unt > 246 </ AvailableI  pAddressCo
 unt >
      < VpcId > vpc - 257gq642n </ VpcId >
      < Descriptio  n />
      < VSwitchNam  e />
      < CreationTi  me >  2014 - 10 - 29T15 : 21 : 02Z  </
 CreationTi  me >
    </ VSwitch >
  </ VSwitches >
</ DescribeVS  witchesRes  ponse >
```

- JSON format

```
{
 " PageNumber ": 1 ,
 " VSwitches ":{
  " VSwitch ":[
   {
    " CreationTi  me ":" 2014 - 10 - 29T15 : 21 : 02Z ",
    " Status ":" Available ",
    " CidrBlock ":" 172 . 16 . 1 . 0 / 24 ",
    " Descriptio  n ":"",
    " AvailableI  pAddressCo  unt ": 246 ,
    " VSwitchNam  e ":"",
    " ZoneId ":" cn - beijing - a ",
    " VSwitchId ":" vsw - 25b7pv15t ",
    " VpcId ":" vpc - 257gq642n "
   }
  ]
 },
 " TotalCount ": 1 ,
 " PageSize ": 10 ,
 " RequestId ":" 9A572171 - 4E27 - 40D1 - BD36 - D26C9E71E2  9E "
}
```

Error codes

HTTP status code	Error code	Error message	Description
404	InvalidVSwitchId.NotFound	VSwitch not exist.	The specified VSwitch does not exist.
400	Forbidden.VpcNotFound	Specified VPC can not found.	The specified VPC does not exist.

See common error codes

7.2 ModifyVSwitchAttribute

Modifies the name and description of a VSwitch.

Debug

By using API Explorer, you can easily debug APIs, automatically generate SDK code examples, and quickly search for APIs.

Request parameters

Parameter	Type	Required?	Example value	Description
`Action`	String	Yes	ModifyVSwitchAttribute	The name of this action. Value: `ModifyVSwitchAttribute`
`RegionId`	String	Yes	cn-hangzhou	The ID of the region to which the VSwitch belongs.
`VSwitchId`	String	Yes	vsw-25naue4gz	The ID of the VSwitch.
`Description`	String	No	This is my vswitch.	The description of the VSwitch. The description must be 2 to 256 characters in length. It must start with a letter and cannot start with `http://` or `https://`.
`Ipv6CidrBlock`	Integer	No	0	The IPv6 CIDR block of the VSwitch. You can customize the last eight bits of an IPv6 CIDR block. Value range: 0 to 255 By default, the mask of an IPv6 CIDK block is 64-bit long.

Parameter	Type	Required?	Example value	Description
VSwitchName	String	No	VSwitch-1	The name of the VSwitch. The name must be 2 to 128 characters in length. It can contain letters, numbers, periods (.), underscores (_), and hyphens (-). The name must start with a letter and cannot start with `http://` or `https://`.

Response parameters

Parameter	Type	Example value	Description
RequestId	String	C0FD0EED-F90D-4479-803D-DD623XXXXXX	The ID of the request.

Examples

Request example

```
http(s)://[Endpoint]/?VSwitchId=vsw-25naue4gz
&<CommonParameters>
```

Response example

- XML format

```
<ModifyVSwitchAttributeResponse>
  <RequestId>0ED8D006-F706-4D23-88ED-E11ED28DCAC0</
 RequestId>
</ModifyVSwitchAttributeResponse>
```

- JSON format

```
{
 "RequestId":"0ED8D006-F706-4D23-88ED-E11ED28DCAC0"
```

```
}
```

Error codes

HTTP status code	Error code	Error message	Description
404	InvalidVSwitchId.NotFound	The specified virtual switch does not exists.	The specified VSwitch does not exist.
400	InvalidVSwitchName.Malformed	Specified virtual switch name is not valid.	The format of the name of the specified VSwitch is invalid.
400	InvalidVSwitchDiscription.Malformed	Specified virtual switch description is not valid.	The description of the VSwitch is invalid.
404	InvalidVSwitchId.NotFound	The specified virtual switch does not exists.	The specified VSwitch does not exist.

See common error codes

7.3 DescribeVSwitchAttributes

Queries the configurations of a VSwitch.

Debug

By using API Explorer, you can easily debug APIs, automatically generate SDK code examples, and quickly search for APIs.

Request parameters

Parameter	Type	Required?	Example value	Description
`Action`	String	Yes	DescribeVSwitchAttributes	The name of this action. Value: `DescribeVSwitchAttributes`
`RegionId`	String	Yes	cn-hangzhou	The region ID of the VPC to which the route table belongs.
`VSwitchId`	String	Yes	vsw-25naue4gz	The ID of the VSwitch.

Response parameters

Parameter	Type	Example value	Description
AvailableIpAddressCount	Long	12	The number of available IP addresses.
CidrBlock	String	192.168.0.1/24	The private CIDR block of the VSwitch.
CloudResources	N/A	N/A	Cloud resources under the VSwitch.
└ ResourceCount	Integer	1	The number of cloud resources under the VSwitch.
└ResourceType	String	nat	The type of the cloud resource.
CreationTime	String	2017-08-22T10:40:25Z	The time when the VSwitch was created.
Description	String	This is my VSwitch.	The description of the VSwitch.
Ipv6CidrBlock	String	2408:4004:0:2900::/64	The IPv6 CIDR block of the VSwitch.
IsDefault	Boolean	false	Whether the VSwitch is the default VSwitch.
RequestId	String	7B48B4B9-1EAD-469F-B488-594DAB4B6A1A	The ID of the request.
ResourceGroupId	String	123456	The ID of the resource group.
RouteTable	N/A	N/A	The route table information of the VSwitch.
└RouteTableId	String	vtb-bp145q7glnuzdvzu21pom	The ID of the route table associated with the VSwitch.

Parameter	Type	Example value	Description
└RouteTableType	String	System	The type of the route table. Valid values: · System: system route table. · Custom: customer route table.
Status	String	Pending	The status of the VSwitch. Valid values: · Pending: being configured · Available: available
VSwitchId	String	vsw-25b7pv15t	The ID of the VSwitch.
VSwitchName	String	test	The name of the VSwitch.
VpcId	String	vpc-257gq642n	The ID of the VPC to which the VSwitch belongs.
ZoneId	String	cn-beijing-a	The ID of the zone to which the VSwitch belongs.

Examples

Request example

```
/? Action = DescribeVS  witchAttri  butes
& VSwitchId = vsw - 25naue4gz
&< CommonPara  meters >
```

Response example

XML format

```
< DescribeVS  witchAttri  butesRespo  nse >
  < RouteTable >
    < RouteTable  Id > vtb - hp3ngu1hkd  utfakqnz76  p </ RouteTable
 Id >
    < RouteTable  Type > System </ RouteTable  Type >
  </ RouteTable >
  < Descriptio  n />
  < IsDefault > false </ IsDefault >
  < AvailableI  pAddressCo  unt > 251 </ AvailableI  pAddressCo  unt >
  < ResourceGr  oupId > rg - acfmy45w7w  2cdxa </ ResourceGr  oupId >
  < ZoneId > cn - huhehaote - a </ ZoneId >
  < VSwitchId > vsw - hp3lyltb1d  osj540yyxj  v </ VSwitchId >
```

```
  < VpcId > vpc - hp34hflqqs  jh3a3q7lbt  r </ VpcId >
  < CreationTi  me > 2019 - 01 - 07T04 : 54 : 14Z </ CreationTi  me >
  < Status > Available </ Status >
  < CidrBlock > 192 . 168 . 0 . 0 / 24 </ CidrBlock >
  < RequestId > A31F062D - 81F0 - 48BC - 9771 - 915D6622D2  6A </
 RequestId >
  < VSwitchNam  e > doc1 </ VSwitchNam  e >
  < Ipv6CidrBl  ock > 2408 : 4004 : 0 : 2900 ::/ 64 </ Ipv6CidrBl  ock
 >
  < CloudResou  rces />
</ DescribeVS  witchAttri  butesRespo  nse >
```

JSON format

```
{
 " RouteTable ":{
  " RouteTable  Id ":" vtb - hp3ngu1hkd  utfakqnz76  p ",
  " RouteTable  Type ":" System "
 },
 " Descriptio  n ":"",
 " IsDefault ": false ,
 " AvailableI  pAddressCo  unt ": 251 ,
 " ResourceGr  oupId ":" rg - acfmy45w7w  2cdxa ",
 " ZoneId ":" cn - huhehaote - a ",
 " VSwitchId ":" vsw - hp3lyltb1d  osj540yyxj  v ",
 " VpcId ":" vpc - hp34hflqqs  jh3a3q7lbt  r ",
 " CreationTi  me ":" 2019 - 01 - 07T04 : 54 : 14Z ",
 " Status ":" Available ",
 " CidrBlock ":" 192 . 168 . 0 . 0 / 24 ",
 " RequestId ":" A31F062D - 81F0 - 48BC - 9771 - 915D6622D2  6A ",
 " Ipv6CidrBl  ock ":" 2408 : 4004 : 0 : 2900 ::/ 64 ",
 " VSwitchNam  e ":" doc1 ",
 " CloudResou  rces ":{
  " CloudResou  rceSetType ":[]
 }
}
```

Error codes

See common error codes

7.4 CreateVSwitch

Creates a VSwitch in a VPC.

Note the following before you call this action:

- Up to 24 VSwitches can be created in a VPC.
- The first and last three IP addresses of the VSwitch are reserved by the system. For example, if the CIDR block of a VSwitch is 192.168.1.0/24, IP addresses 192.168.1.0, 192.168.1.253, 192.168.1.254, and 192.168.1.255 are reserved.
- The number of cloud product instances under the VSwitch cannot exceed the remaining capacity of the VPC (subtract the current number of cloud product instances from 15,000).

- A cloud product instance can only belong to one VSwitch.
- VSwitches do not support broadcasting or multicasting.

After a VSwitch is created, you cannot modify its CIDR block.

Debug

By using API Explorer, you can easily debug APIs, automatically generate SDK code examples, and quickly search for APIs.

Request parameters

Parameter	Type	Required?	Example value	Description
`Action`	String	Yes	CreateVSwitch	The name of this action. Value: `CreateVSwitch`
`CidrBlock`	String	Yes	172.16.0.0/24	The CIDR block of VSwitch. The IP address range must meet the following requirements: · The length of the subnet mask for the VSwitch must be in the range of /16 to /29. · The CIDR block of the VSwitch must belong to the CIDR block of the VPC. · The CIDR block of the VSwitch cannot be the same as any destination CIDR block in route entries of the VPC, but can be the subnet of the destination CIDR block. · If the network segment of the switch is the same as the network segment of the same VPC, there can be only one switch for the VPC.
`VpcId`	String	Yes	vpc-257gq6nxxxxxxx	The ID of the VPC to which the VSwitch belongs.

Parameter	Type	Required?	Example value	Description
`ZoneId`	String	Yes	cn-hangzhou-b	The ID of the zone to which the switch belongs. To query the region ID, call `DescribeZones`.
`RegionId`	String	Yes	cn-hangzhou	The ID of the region to which the VSwitch belongs.
`Ipv6CidrBlock`	Integer	No	0	The IPv6 CIDR block of the VSwitch. You can customize the last eight bits of an IPv6 CIDR block. Value range: 0 to 255. By default, the length of the IPv6 CIDK mask is /64.
`Description`	String	No	This is my vswitch.	The description of the VSwitch. The description must be 2 to 256 characters in length and must start with a letter. It cannot start with `http://` or `https://`.
`VSwitchName`	String	No	VSwitch-1	The name of the VSwitch. The name must be 1 to 128 characters in length and must start with a letter. It cannot start with `http://` or `https://`.
`ClientToken`	String	No	dhueeuxxxxxxxdde	A client token used to guarantee the idempotence of requests. This parameter value is generated by the client and must be unique. It must be 1 to 64 ASCII characters in length.

Parameter	Type	Required?	Example value	Description
OwnerAccount	String	No	N/A	The owner account.

Response parameters

Parameter	Type	Example value	Description
RequestId	String	861E6630-AEC0-4B2D-B214-6CB5E44B7F04	The ID of the request.
VSwitchId	String	vsw-25naue4gz	The ID of the switch.

Examples

Request example

```
 https :// vpc . aliyuncs . com /? Action = CreateVSwi  tch
& CidrBlock = 172 . 16 . 0 . 0 / 24
& VpcId = vpc - 257gq6nxxx  xxxx
& ZoneId = cn - hangzhou - b
&< CommonPara  meters >
```

Response example

- XML format

```
< CreateVSwi  tchRespons  e >
  < RequestId > 0ED8D006 - F706 - 4D23 - 88ED - E11ED28DCA  C0 </
 RequestId >
  < VSwitchId > vsw - 25naue4gz </ VSwitchId >
</ CreateVSwi  tchRespons  e >
```

- JSON format

```
{
 " RequestId ":" 0ED8D006 - F706 - 4D23 - 88ED - E11ED28DCA  C0 ",
 " VSwitchId ":" vsw - 25naue4gz "
```

```
}
```

Error codes

HTTP status code	Error code	Error message	Description
404	InvalidZoneId.NotFound	Specified zone does not exist.	The ID of the zone is incorrect.
404	InvalidVpcId.NotFound	Specified VPC does not exist.	The specified VPC does not exist.
400	InvalidVSwitchName.Malformed	Specified virtual switch name is not valid.	The format of the name of the specified VSwitch is invalid.
400	ResourceNotAvailable	Resource you requested is not available in this region or zone.	The resource that you requested is not available in this region or zone.
400	InvalidParameter	Specified CIDR block is not valid in VPC.	The specified CIDR block does not belong to the CIDR block of the VPC.
400	InvalidCidrBlock.Overlapped	Specified CIDR block overlapped with other subnets.	The specified CIDR block overlaps the CIDR block of another VSwitch or the destination CIDK block of an existing customer route. Select a CIDR block that is not used.
400	InvalidCidrBlock.Overlapped	Specified CIDR block overlapped with other entry.	The specified CIDR block overlaps with the CIDR block of another VSwitch, or the destination CIDK block of an existing customer route. Select a CIDR block that is not used.
400	QuotaExceeded.VSwitch	Virtual switch quota exceeded.	The maximum number of VSwitches was exceeded.
400	IncorrectRouteEntryStatus	Some route entry status blocked this operation.	The route table includes entries in the Pending or Modifying status.

HTTP status code	Error code	Error message	Description
400	IncorrectVSwitchStatus	Some virtual switch is modifying within the same VPC.	The VPC has multiple VSwitches that are in the Modifying status. Please try again later.
400	InvalidCidrBlock.MaskLength	Specified CIDR block is not valid .	The form of the CIDR block is invalid.
400	IncorrectVpcStatus	Current VPC status does not support this operation .	The current status of VPC does not support the action.
400	MissingParameter	Miss mandatory parameter.	The required parameters are missing.
400	IncorrectVSwitchStatus	VSwitch Creation simultaneously is not supported.	You cannot create VSwitches because the VPC includes VSwitches in the Creating status.
400	Forbidden.VpcNotFound	Specified VPC can not found.	The specified VPC does not exist.

See common error codes

7.5 DeleteVSwitch

Deletes a VSwitch.

Note the following before you call this action:

- You first must release or remove all resources under the VPC, including VSwitches, cloud product instances, router interfaces, and HAVIPs.
- Only VSwitches in the available status can be deleted.
- A VSwitch cannot be deleted when the VPC to which it belongs is creating or deleting a VSwitch or route entry.

Debug

By using API Explorer, you can easily debug APIs, automatically generate SDK code examples, and quickly search for APIs.

Request parameters

Parameter	Type	Required?	Example value	Description
`Action`	String	Yes	DeleteVSwitch	The name of this action. Value: `DeleteVSwi tch`
`VSwitchId`	String	Yes	vsw-asdfjlnaue4g	The ID of the VSwitch to delete.

Response parameters

Parameter	Type	Example value	Description
`RequestId`	String	AF083E3D-7E29-4B77-A937-1F129802D5XXXXXX	The ID of the request.

Examples

Request example

```
 http ( s ):// vpc . aliyuncs . com /? Action = DeleteVSwi  tch
& VSwitchId = vsw - asdfjlnaue  4g
&< CommonPara  meters >
```

Response example

- XML format

```
< DeleteVSwi  tchRespons  e >
  < RequestId > 0ED8D006 - F706 - 4D23 - 88ED - E11ED28DCA  C0 </
 RequestId >
</ DeleteVSwi  tchRespons  e >
```

- JSON format

```
{
 " RequestId ":" 0ED8D006 - F706 - 4D23 - 88ED - E11ED28DCA  C0 "
```

```
}
```

Error codes

HTTP status code	Error code	Error message	Description
400	IncorrectVSwitchStatus	The current virtual switch status does not support this operation.	The specified VSwitch failed to be deleted because it was in the Pending state.
400	DependencyViolation	Some route entry status blocked this operation.	The route table contains entries in the Pending or Modifying status.
400	IncorrectRouteEntryStatus	Some route entry status blocked this operation.	The route table contains entries in the Pending or Modifying state.
400	DependencyViolation.HaVip	VSwitch cannot be deleted when there are some HaVip dependent with it.	You cannot delete this VSwitch because a HAVIP is bound to it.
400	MissingParameter	Miss mandatory parameter.	The required parameters are missing.
404	InvalidVSwitchId.NotFound	VSwitch not exist.	The specified VSwitch does not exist.
404	IncorrectStatus	Vswtich status not stable.	The VSwitch is currently in the Pending or Modifying status. Please try again later.

See common error codes

8 VRouter

8.1 DescribeVRouters

Queries VRouters in a region.

Debug

By using API Explorer, you can easily debug APIs, automatically generate SDK code examples, and quickly search for APIs.

Request parameters

Parameter	Type	Required?	Example value	Description
`Action`	String	Yes	DescribeVRouters	The name of this action. Value: `DescribeVRouters`
`RegionId`	String	Yes	cn-hangzhou	The ID of the region to which the VPC belongs. To query the region ID, call `DescribeRegions`.
`VRouterId`	String	No	vrt-bp1lhl0taikrteen80oxx	The ID of the VRouter.
`PageNumber`	Integer	No	10	The number of pages to return. Default value: `1`.
`PageSize`	Integer	No	10	The number of rows per page. Maximum value: `50`. Default value: `10`.

Response parameters

Parameter	Type	Example value	Description
VRouters	N/A		A list of VRouters.
└CreationTime	String	2018-03-22T07:46:20Z	The time when the VRouter was created.
└Description	String	This is my VRouter.	The description of the VRouter.
└RegionId	String	us-west-1	The region where the VPC belongs.
└RouteTableIds	N/A	{ "RouteTableId": ["vtb-rj9ybe3y0u41mmjspmop0"] }	The ID of the route table of the VRouter.
└VRouterId	String	vrt-rj98khsezfqpjrxmvl7cy	The ID of the VRouter.
└VRouterName	String	doctest	The name of the VRouter.
└VpcId	String	vpc-rj905wotv6y030t1zz5vl	The ID of the VPC to which the VRouter belongs.
TotalCount	Integer	1	The number of queried entries.
PageNumber	Integer	1	The current page number.
PageSize	Integer	2	The number of entries per page.
RequestId	String	0ED8D006-F706-4D23-88ED-E11ED28DCAC0	The ID of the request.

Examples

Request example

```
https :// vpc . aliyuncs . com /? RegionId = cn - hangzhou
```

```
&< CommonPara  meters >
```

Response example

- **XML format**

```
< DescribeVR  outersResp  onse >
  < PageNumber > 1 </ PageNumber >
  < TotalCount > 2 </ TotalCount >
  < VRouters >
    < VRouter >
      < VRouterNam  e />
      < RouteTable  Ids >
        < RouteTable  Id > vtb - bp1krxxzp0  c29fmontba  l </
 RouteTable  Id >
      </ RouteTable  Ids >
      < CreationTi  me > 2018 - 12 - 06T06 : 11 : 55Z </ CreationTi
 me >
      < Descriptio  n />
      < RegionId > cn - hangzhou </ RegionId >
      < VRouterId > vrt - bp1jcg5cmx  jbl9xgc58b  w </ VRouterId >
      < VpcId > vpc - bp1qpo0kug  3a20qqe9h7  v </ VpcId >
    </ VRouter >
    < VRouter >
      < VRouterNam  e />
      < RouteTable  Ids >
        < RouteTable  Id > vtb - bp1blq1oh0  ybfnpm1bh2  0 </
 RouteTable  Id >
      </ RouteTable  Ids >
      < CreationTi  me > 2018 - 11 - 08T08 : 54 : 03Z </ CreationTi
 me >
      < Descriptio  n />
      < RegionId > cn - hangzhou </ RegionId >
      < VRouterId > vrt - bp149ve7ye  yvio4ncklx  z </ VRouterId >
      < VpcId > vpc - bp1aevy8so  fi8mh1qc5c  m </ VpcId >
    </ VRouter >
  </ VRouters >
  < PageSize > 10 </ PageSize >
  < RequestId > EE4C2417 - 9437 - 4333 - BDEB - 8493F7AA72  58 </
 RequestId >
</ DescribeVR  outersResp  onse >
```

- **JSON format**

```
{
 " PageNumber ": 1 ,
 " TotalCount ": 1 ,
 " VRouters ":{
  " VRouter ":[
   {
    " CreationTi  me ":" 2018 - 03 - 22T07 : 46 : 20Z ",
    " RouteTable  Ids ":{
     " RouteTable  Id ":[
      " vtb - rj9ybe3y0u  41mmjspmop  0 "
     ]
    },
    " VRouterNam  e ":"",
    " Descriptio  n ":"",
    " RegionId ":" us - west - 1 ",
    " VpcId ":" vpc - rj905wotv6  y030t1zz5v  l ",
    " VRouterId ":" vrt - rj98khsezf  qpjrxmvl7c  y "
   }
```

```
  ]
 },
 " PageSize ": 10 ,
 " RequestId ":" CB2793A8 - 845F - 444C - 8E93 - 76F1BBDF9C  78 "
}
```

Error codes

See common error codes

8.2 ModifyVRouterAttribute

Modifies the name and description of a VRouter.

Debug

By using API Explorer, you can easily debug APIs, automatically generate SDK code examples, and quickly search for APIs.

Request parameters

Parameter	Type	Required?	Example value	Description
`Action`	String	Yes	ModifyVRouterAttribute	The name of this action. Value: `ModifyVRouterAttribute`
`RegionId`	String	Yes	cn-hangzhou	The ID of the region to which the VPC belongs.
`VRouterId`	String	Yes	vrt-bp1lhl0taikrteen80oxx	The ID of the VRouter.
`Description`	String	No	My VRouter	The description of the VRouter. The description must be 2 to 256 characters in length. It must start with a letter and cannot start with `http://` or `https://`.

Parameter	Type	Required?	Example value	Description
VRouterName	String	No	VRouter-1	The name of the VRouter. The name must be 2 to 128 characters in length. It can contain letters, numbers, periods (.), underscores (_), and hyphens (-). It must start with a letter and cannot start with `http://` or `https://`.

Response parameters

Parameter	Type	Example value	Description
RequestId	String	0ED8D006-F706-4D23-88ED-E11ED28DCAC0	The ID of the request.

Examples

Request example

```
https://vpc.aliyuncs.com/?Action=ModifyVRouterAttribute
&VRouterId=vrt-bp1lhl0taikrteen80ox x
&<CommonParameters>
```

Response example

- XML format

```
<ModifyVRouterAttributeResponse>
  <RequestId>0ED8D006-F706-4D23-88ED-E11ED28DCAC0</
 RequestId>
</ModifyVRouterAttributeResponse>
```

- JSON format

```
{
 "RequestId":"0ED8D006-F706-4D23-88ED-E11ED28DCAC0",
 "RouteTableId":"vtb-bp145q7glnuzdvzu21pom",
 "VpcId":"vpc-bp15zckdt37pq72zvw30k",
 "VRouterId":"vrt-bp1lhl0taikrteen80ox x"
```

```
}
```

Error codes

HTTP status code	Error code	Error message	Description
404	InvalidVRouterId.NotFound	Specified virtual router does not exist.	The specified VRouter does not exist.
400	InvalidVRouterName.Malformed	Specified virtual router name is not valid.	The VRouter name is invalid.
400	InvalidVRouterDiscription.Malformed	Specified virtual router description is not valid.	The VRouter description is invalid.
400	MissingParameter	Miss mandatory parameter.	Required parameters are missing.

See common error codes

9 Route table

9.1 ModifyRouteTableAttributes

Modifies the name and description of a route table.

Debug

By using OpenAPI Explorer, you can easily debug APIs, automatically generate SDK code examples, and quickly search for APIs.

Request parameters

Parameter	Type	Required?	Example value	Description
`Action`	String	Yes	ModifyRouteTableAttributes	The name of this action. Value: `ModifyRouteTableAttributes`
`RegionId`	String	Yes	cn-hangzhou	The region ID of the VPC to which the route table belongs. To query the region ID, call `DescribeRegions`.
`RouteTableId`	String	Yes	vtb-bp145q7glnuzdvzu21pom	The ID of the route table.
`Description`	String	No	This is my route table.	The description of the route table. The description must be 2 to 256 characters in length. It must start with a letter, but cannot start with `http://` or `https://`.

Parameter	Type	Required?	Example value	Description
RouteTableName	String	No	doctest	The name of the route table. The name must be 2 to 128 characters in length. It can contain letters, numbers, periods (.), underlines (_), and hyphens (-). It must start with an English letter. The name cannot start with `http://` or `https://`.

Response parameters

Parameter	Type	Example value	Description
RequestId	String	62172DD5-6BAC-45DF-8D44-xxxxxxxx	The ID of the request.

Examples

Request example

```
http(s)://vpc.aliyuncs.com/?Action=ModifyRouteTableAttributes
&RegionId=cn-hangzhou
&RouteTableId=vtb-bp145q7glnuzdvzu21pom
&<CommonParameters>
```

Response example

- XML format

```
<ModifyRouteTableAttributesResponse>
  <RequestId>62172DD5-6BAC-45DF-8D44-xxxxxxxx</RequestId>
</ModifyRouteTableAttributesResponse>
```

- JSON format

```
{
 "RequestId":"62172DD5-6BAC-45DF-8D44-xxxxxxxx"
```

```
}
```

Error codes

HTTP status code	Error code	Error message	Description
403	Forbbiden	User not authorized to operate on the specified resource.	You are not authorized to operate this resource.

See common error codes

9.2 DescribeRouteTableList

Queries a route table.

Debug

Use API Explorer to perform debug operations and generate code examples.

Request parameters

Parameter	Type	Required?	Example value	Description
`Action`	String	Yes	DescribeRouteTableList	The name of this action. Value: DescribeRouteTableList.
`RegionId`	String	Yes	cn-hangzhou	The region ID of the VPC to which the route table belongs. To query the region ID, call DescribeRegions.
`PageNumber`	Integer	No	1	The number of pages to return. Default value: 1.
`PageSize`	Integer	No	12	The number of rows per page. Maximum value: 50. Default value: 10.

Parameter	Type	Required?	Example value	Description
`ResourceGroupId`	String	No	rg-acfmxazb4ph6aiy	The ID of the resource group.
`RouteTableId`	String	No	vtb-bp145q7glnuzdvzu21pom	The ID of the route table.
`RouteTableName`	String	]No	doctest	The name of the route table.
`RouterId`	String	No	vrt-bp1lhl0taikrteen80oxx	The ID of the VRouter or VBR to which the route table belongs.
`RouterType`	String	No	VBR	The type of the router to which the route table belongs. Valid values: · VRouter (default): VRouter · VBR: VBR
`VpcId`	String	No	vpc-bp15zckdt37pq72zvw3	The ID of the VRouter to which the route table belongs. The value of the RouterType parameter is set to VRouter automatically when this parameter is specified.

Response parameters

Parameter	Type	Example value	Description
PageNumber	Integer	12	The current page number.
PageSize	Integer	1	The number of rows per page.
RequestId	String	DC668356-BCB4-42FD-9BC3-FA2B2E04B634	The ID of the request.

Parameter	Type	Example value	Description
RouterTableList			A list of route tables.
└CreationTime	String	2017-08-22T10:40:25Z	The time at which the route table was created. The format is YYYY-MM-DDThh:mmZ.
└Description	String	This is Route Table.	The description of the route table.
└ResourceGroupId	String	rg-acfmxazb4ph6aiy	The ID of the resource group.
└RouteTableId	String	vtb-bp145q7glnuzdvzu21pom	The ID of the route table.
└RouteTableName	String	doctest	The name of the route table.
└RouteTableType	String	System	The type of route table. Valid values: · Custom: custom route table · System: system route table
└RouterId	String	vrt-bp1lhl0taikrteen80oxx	The ID of the router to which the route table belongs.
└RouterType	String	VBR	The type of the router to which the route table belongs. Valid values: · VRouter: VRouter · VBR: VBR
└Tags			A list of route table tags.
└VSwitchIds		vsw-bp12mw1f8k3jgygk9bmlj	A list of VSwitches under the VPC.

Parameter	Type	Example value	Description
└VpcId	String	vpc-bp15zckdt37pq72zvw3	The ID of the VRouter to which the route table belongs. The value of the RouterType parameter is set to VRouter automatically when this parameter is specified.
TotalCount	Integer	12	The number of queried entries.

Examples

Request example

```
 https :// vpc . aliyuncs . com /? Action = DescribeRo  uteTableLi
 st
& RegionId = cn - hangzhou
&< CommonPara  meters >
```

Response example

`XML` format

```
< DescribeRo  uteTableLi  stResponse >
  < Code > 200 </ Code >
  < Message > successful </ Message >
  < PageNumber > 1 </ PageNumber >
  < PageSize > 10 </ PageSize >
  < RequestId > 87261511 - FEB9 - 4BEC - 85BF - 70XXXXXXXX  X </
 RequestId >
  < RouterTabl  eList >
    < RouterTabl  eListType >
      < CreationTi  me > 2018 - 08 - 03T08 : 14 : 54Z </ CreationTi
 me >
      < Descriptio  n > ddd </ Descriptio  n >
      < RouteTable  Id > vtb - m5evbtbptn  x2bXXXXXXX  XX </
 RouteTable  Id >
      < RouteTable  Name > aaa1111 </ RouteTable  Name >
      < RouteTable  Type > Custom </ RouteTable  Type >
      < RouterId > vrt - m5egeuhgj5  2xgXXXXXXX  XX </ RouterId >
      < RouterType > VRouter </ RouterType >
      < VSwitchIds >
        < VSwitchId > vsw - m5e3r57pxk  gijXXXXXXX  XX </ VSwitchId >
      </ VSwitchIds >
      < VpcId > vpc - m5epe3ag3q  XXXXXXXXX </ VpcId >
    </ RouterTabl  eListType >
  </ RouterTabl  eList >
```

```
</ DescribeRo  uteTableLi  stResponse >
```

`JSON` format

```
{
 " PageNumber ": 1 ,
 " TotalCount ": 1 ,
 " RouterTabl  eList ": {
  " RouterTabl  eListType ": [
   {
    " CreationTi  me ": " 2018 - 08 - 03T08 : 14 : 54Z ",
    " RouterType ":" VRouter ",
    " Descriptio  n ": " ddd ",
    " VSwitchIds ": {
     " VSwitchId ": [
      " vsw - m5e3r57pxk  gijXXXXXXX  XX "
     ]
    },
    " RouterId ":" vrt - m5egeuhgj5  2xgXXXXXXX  XX ",
    " RouteTable  Id ":" vtb - m5evbtbptn  x2bXXXXXXX  XX ",
    " RouteTable  Name ":" aaa1111 ",
    " VpcId ":" vpc - m5epe3ag3q  XXXXXXXXX ",
    " RouteTable  Type ":" Custom "
   }
  ]
 },
 " message ":" successful ",
 " PageSize ": 10 ,
 " RequestId ":" 87261511 - FEB9 - 4BEC - 85BF - 70XXXXXXXX  X ",
 " Success ": true ,
 " Code ":" 200 "
}
```

Error codes

HTTP status code	Error code	Error message	Description
403	Forbbiden	User not authorized to operate on the specified resource.	You are not authorized to operate on this resource . Please apply for the permission and try again later.

See common error codes

9.3 DescribeRouteTables

Queries route entries in a route table.

Debug

By using API Explorer, you can easily debug APIs, automatically generate SDK code examples, and quickly search for APIs.

Request parameters

Parameter	Type	Required?	Example value	Description
`Action`	String	Yes	DescribeRouteTables	The name of this action. Value: `DescribeRouteTables`
`RegionId`	String	Yes	cn-hangzhou	The region ID of the VPC to which the route table to be queried belongs.
`PageNumber`	Integer	No	10	The number of pages to return. Default value: `1` .
`PageSize`	Integer	No	10	The number of rows per page. Maximum value: `50` . Default value: `10` .
`ResourceGroupId`	String	No	rg-acfmxazb4ph6aiy	The ID of the resource group.
`RouteTableId`	String	No	rtb-bp12mw1f8k3jgygk9bmwe	The ID of the route table.
`RouteTableName`	String	No	RouteTable-1	The name of the route table.
`RouterId`	String	No	vtb-bp1krxxzp0c29fmontbal	The ID of the VRouter or VBR to which the route table to be queried belongs.

Parameter	Type	Required?	Example value	Description
`RouterType`	String	No	VRouter	The type of the router to which the route table to be queried belongs. Valid value: · `VRouter` : VRouter · `VBR` : VBR
`Type`	String	No	custom	The type of the route table.
`VRouterId`	String	No	vtb-bp1krxxzp0c29fmontbal	The ID of the VRouter to which the route table to be queried belongs. The value of the `RouterType` parameter is set to `VRouter` automatically when this parameter is specified.

Response parameters

Parameter	Type	Example value	Description
RouteTables	N/A	N/A	A list of route tables.
└RouteTableId	String	vtb-bp145q7glnuzdvzu21pom	The ID of the route table to which the route entry belongs.
└CreationTime	String	2017-08-22T10:40:25Z	The time when the route table was created.
└ResourceGroupId	String	rg-acfmxazb4ph6aiy	The ID of the resource group.
└RouteEntrys	N/A	N/A	A list of route entries.
└RouteTableId	String	vtb-bp145q7glnuzdvzu21pom	The ID of the route table to which the route entry belongs.

Parameter	Type	Example value	Description
└DestinationCidrBlock	String	192.168.0.1/24	The destination CIDK block of the route entry.
└Type	String	System	The type of the route entry. Valid values: · System: system route · Custom: custom route · BGP: BGP route
└NextHopType	String	HaVip	The type of the next hop. Valid values: · Instance: ECS instance (default) · HaVip: HaVip · RouterInterface: router interface
└Status	String	Pending	The status of the route entry. Valid values: · Pending: being configured · Available: available · Modifying: being modified
└InstanceId	String	ri-2zeo3xzyf38r4urzdpvfs	The instance ID of the next hop.
└NextHops	N/A	N/A	A list of next hops of ECMP routes.
└NextHopType	String	HaVip	The type of the next hop. Valid values: · Instance: ECS instance (default) · HaVip: HaVip · RouterInterface: router interface
└NextHopId	String	ri-2zeo3xzyf38r4urzdpvqw	The instance ID of the next hop.
└Enabled	Integer	0	Whether to enable the next hop. · 0: disabled · 1: enabled

Parameter	Type	Example value	Description
└Weight	Integer	80	The routing weight of the next hop.
└RouteTableType	String	System	The type of the route table to be queried.
└VRouterId	String	vrt-bp1lhl0taikrteen80oxx	The ID of the VRouter.
└VSwitchIds	N/A	vsw-bp14cagpfysr29feg5t97	A list of VSwitches under the VPC.
TotalCount	Integer	12	The number of queried entries.
PageNumber	Integer	1	The current page number.
PageSize	Integer	1	The number of entries per page.
RequestId	String	DC668356-BCB4-42FD-9BC3-FA2B2E04B634	The ID of the request.

Examples

Request example

```
 http ( s ):// vpc . aliyuncs . com /? Action = DescribeRo  uteTables
&< CommonPara  meters >
```

Response example

- XML format

```
< DescribeRo  uteTablesR  esponse >
  < PageNumber > 1 </ PageNumber >
  < TotalCount > 1 </ TotalCount >
  < PageSize > 10 </ PageSize >
  < RequestId > DC668356 - BCB4 - 42FD - 9BC3 - FA2B2E04B6  34 </
 RequestId >
  < RouteTable  s >
    < RouteTable >
      < CreationTi  me > 2017 - 08 - 22T10 : 40 : 25Z </ CreationTi
 me >
      < RouteEntry  s >
        < RouteEntry >
          < NextHops />
          < Status > Available </ Status >
          < Type > Custom </ Type >
          < InstanceId > ri - 2zeo3xzyf3  8r4urzdpvf  s </
 InstanceId >
```

```
          < NextHopTyp  e > RouterInte  rface </ NextHopTyp  e >
          < RouteTable  Id > vtb - 2zevpmy9th  8cxmwtarqg  4 </
 RouteTable  Id >
          < Destinatio  nCidrBlock > 10 . 10 . 0 . 0 / 24 </
 Destinatio  nCidrBlock >
        </ RouteEntry >
        < RouteEntry >
          < NextHops />
          < Status > Available </ Status >
          < Type > System </ Type >
          < InstanceId />
          < NextHopTyp  e > service </ NextHopTyp  e >
          < RouteTable  Id > vtb - 2zevpmy9th  8cxmwtarqg  4 </
 RouteTable  Id >
          < Destinatio  nCidrBlock > 100 . 64 . 0 . 0 / 10 </
 Destinatio  nCidrBlock >
        </ RouteEntry >
      </ RouteEntry  s >
      < RouteTable  Id > vtb - 2zevpmy9th  8cxmwtarqg  4 </
 RouteTable  Id >
      < RouteTable  Type > System </ RouteTable  Type >
      < VRouterId > vrt - 2zefso23vm  u6xi3jeiw0  z </ VRouterId >
    </ RouteTable >
  </ RouteTable  s >
</ DescribeRo  uteTablesR  esponse >
```

- **JSON format**

```
{
 " PageNumber ": 1 ,
 " TotalCount ": 1 ,
 " PageSize ": 10 ,
 " RequestId ":" DC668356 - BCB4 - 42FD - 9BC3 - FA2B2E04B6  34 ",
 " RouteTable  s ":{
  " RouteTable ":[
   {
    " CreationTi  me ":" 2017 - 08 - 22T10 : 40 : 25Z ",
    " RouteEntry  s ":{
     " RouteEntry ":[
      {
       " Status ":" Available ",
       " NextHops ":{
        " NextHop ":[]
       },
       " Type ":" Custom ",
       " InstanceId ":" ri - 2zeo3xzyf3  8r4urzdpvf  s ",
       " RouteTable  Id ":" vtb - 2zevpmy9th  8cxmwtarqg  4 ",
       " NextHopTyp  e ":" RouterInte  rface ",
       " Destinatio  nCidrBlock ":" 10 . 10 . 0 . 0 / 24 "
      },
      {
       " Status ":" Available ",
       " NextHops ":{
        " NextHop ":[]
       },
       " Type ":" System ",
       " InstanceId ":"",
       " RouteTable  Id ":" vtb - 2zevpmy9th  8cxmwtarqg  4 ",
       " NextHopTyp  e ":" service ",
       " Destinatio  nCidrBlock ":" 100 . 64 . 0 . 0 / 10 "
      }
     ]
    },
```

```
      " RouteTable  Id ":" vtb - 2zevpmy9th  8cxmwtarqg  4 ",
      " VRouterId ":" vrt - 2zefso23vm  u6xi3jeiw0  z ",
      " RouteTable  Type ":" System "
    }
  ]
 }
}
```

Error codes

See common error codes

9.4 CreateRouteTable

Creates a custom route table.

Debug

By using API Explorer, you can easily debug APIs, automatically generate SDK code examples, and quickly search for APIs.

Request parameters

Parameter	Type	Required?	Example value	Description
`Action`	String	Yes	CreateRouteTable	The name of this action. Value: `CreateRout eTable`
`RegionId`	String	Yes	cn-hangzhou	The region ID of the VPC to which the route table belongs. To query the region ID, call `DescribeRegions`.
`VpcId`	String	Yes	vpc-bp1qpo0kug3a20qqe9h7v	The ID of the VPC to which the custom route table belongs.
`ClientToken`	String	No	02fb3da4-130e-11e9-8e44-0016e04115b	A client token used to guarantee the idempotence of requests. This parameter value is generated by the client and must be unique. It must be 1 to 64 ASCII characters in length.

Parameter	Type	Required?	Example value	Description
`Description`	String	No	The name of the route table	The description of the route table. The description must be 2 to 256 characters in length. The description must start with a letter, but cannot start with `http://` or `https://`.
`RouteTableName`	String	No	myRouteTable	The name of the route table. The name must be 2 to 128 characters in length. It can contain letters, numbers, periods (.), underscores (_), and hyphens (-). It must start with a letter and cannot start with `http://` or `https://`.

Response parameters

Parameter	Type	Example value	Description
`RequestId`	String	0ED8D006-F706-4D23-88ED-E11ED28DCAC0	The ID of the request.
`RouteTableId`	String	vtb-bp145q7glnuzdvzu21pom	The ID of the route table.

Examples

Request example

```
https://vpc.aliyuncs.com/?Action=CreateRouteTable
&RegionId=cn-hangzhou
&VpcId=vpc-bp1qpo0kug3a20qqe9h7v
&<CommonParameters>
```

Response example

- XML format

```
< CreateRout  eTableResp  onse >
  < RequestId > 62172DD5 - 6BAC - 45DF - 8D44 - xxxxxxx </ RequestId
 >
  < RouteTable  Id > " vtb - m5evbtbptx  xxxxxxxxx </ RouteTable  Id
 >
</ CreateRout  eTableResp  onse >
```

- JSON format

```
{
 " RequestId ":" 62172DD5 - 6BAC - 45DF - 8D44 - xxxxxxxx ",
 " RouteTable  Id ":" vtb - m5evbtbptx  xxxxxxxxxx  x "
}
```

Error codes

HTTP status code	Error code	Error message	Description
400	InvalidParameter.Description.Malformed	The specified Description is not valid.	The description is invalid.
404	InvalidVpcId.NotFound	Specified VPC does not exist.	The specified VPC does not exist.

See common error codes

9.5 AssociateRouteTable

Attaches a custom route table to a VSwitch in the same VPC.

Debug

By using API Explorer, you can easily debug APIs, automatically generate SDK code examples, and quickly search for APIs.

Request parameters

Parameter	Type	Required?	Example value	Description
`Action`	String	Yes	AssociateRouteTable	The name of this action. Value: `AssociateR  outeTable`

Parameter	Type	Required?	Example value	Description
RegionId	String	Yes	cn-hangzhou	The region ID of the VPC to which the route table belongs. To query the region ID, call DescribeRegions.
RouteTableId	String	Yes	vtb-bp145q7gluzdvzu21pom	The ID of the route table.
VSwitchId	string	Yes	vsw-25naue4gz	The ID of the VSwitch.
ClientToken	String	No	02fb3da4-130e-11e9-8e44-0016e04115b	A client token used to guarantee the idempotence of requests. This parameter value is generated by the client and must be unique. It must be 1 to 64 ASCII characters in length.

Response parameters

Parameter	Type	Example value	Description
RequestId	String	DC668356-BCB4-42FD-9BC3-FA2B2E04B634	The ID of the request.

Examples

Request example

```
 http ( s ):// vpc . aliyuncs . com /? Action = AssociateR  outeTable
& RegionId = cn - hangzhou
& RouteTable  Id = vtb - bp145q7gln  uzdvzu21po  m
& VSwitchId = vsw - 25naue4gz
&< CommonPara  meters >
```

Response example

- XML format

```
< AssociateR  outeTableR  esponse >
  < RequestId > 62172DD5 - 6BAC - 45DF - 8D44 - xxxxxxx </ RequestId
 >
</ AssociateR  outeTableR  esponse >
```

- JSON format

```
{
 " RequestId ":" 62172DD5 - 6BAC - 45DF - 8D44 - xxxxxxxx "
}
```

Error codes

HTTP status code	Error code	Error message	Description
404	InvalidRouteTableId.NotFound	Specified route table does not exist.	The specified route table does not exist.

See common error codes

9.6 UnassociateRouteTable

Detaches a route table from a VSwitch.

Debug

By using API Explorer, you can easily debug APIs, automatically generate SDK code examples, and quickly search for APIs.

Request parameters

Parameter	Type	Required?	Example value	Description
`Action`	String	Yes	UnassociateRouteTable	The name of this action. Value: `Unassociat eRouteTabl e`

Parameter	Type	Required?	Example value	Description
RegionId	String	Yes	cn-hangzhou	The region ID of the VPC to which the route table belongs. To query the region ID, call DescribeRegions.
RouteTableId	String	Yes	vtb-bp145q7gluzdvzu21pom	The ID of the route table.
VSwitchId	String	Yes	vsw-25naue4gz	The ID of the VSwitch.
ClientToken	String	No	02fb3da4-130e-11e9-8e44-0016e04115b	A client token used to guarantee the idempotence of requests. This parameter value is generated by the client and must be unique. It must be 1 to 64 ASCII characters in length.

Response parameters

Parameter	Type	Example value	Description
RequestId	String	62172DD5-6BAC-45DF-8D44-xxxxxxx	The ID of the request.

Examples

Request example

```
 https :// vpc . aliyuncs . com /? Action = Unassociat  eRouteTabl  e
& RegionId = cn - hangzhou
& RouteTable  Id = vtb - bp145q7gln  uzdvzu21po  m
& VSwitchId = vsw - 25naue4gz
&< CommonPara  meters >
```

Response example

- XML format

```
< Unassociat  eRouteTabl  eResponse >
  < RequestId > 62172DD5 - 6BAC - 45DF - 8D44 - xxxxxxx </ RequestId
 >
</ Unassociat  eRouteTabl  eResponse >
```

- JSON format

```
{
 " RequestId ":" 62172DD5 - 6BAC - 45DF - 8D44 - xxxxxxxx "
}
```

Error codes

HTTP status code	Error code	Error message	Description
404	InvalidRouteTableId.NotFound	Specified route table does not exist.	The specified route table does not exist.

See common error codes

9.7 DeleteRouteTable

Deletes a custom route table.

Debug

By using OpenAPI Explorer, you can easily debug APIs, automatically generate SDK code examples, and quickly search for APIs.

Request parameters

Parameter	Type	Required?	Example value	Description
`Action`	String	Yes	DeleteRouteTable	The name of this action. Value: `DeleteRout eTable`

Parameter	Type	Required?	Example value	Description
RegionId	String	Yes	cn-hangzhou	The region ID of the VPC to which the VRouter belongs. To query the region ID, call DescribeRegions.
RouteTableId	String	Yes	vtb-bp145q7gluzdvzu21pom	The ID of the route table.

Response parameters

Parameter	Type	Example value	Description
RequestId	String	DC668356-BCB4-42FD-9BC3-FA2B2E04B634	The ID of the request.

Examples

Request example

```
https://vpc.aliyuncs.com/?Action=DeleteRouteTable
&RegionId=cn-hangzhou
&RouteTableId=vtb-bp145q7gluzdvzu21pom
&<CommonParameters>
```

Response example

- XML format

```
<DeleteRouteTableResponse>
  <RequestId>62172DD5-6BAC-45DF-8D44-xxxxxxx</RequestId>
</DeleteRouteTableResponse>
```

- JSON format

```
{
"RequestId":"62172DD5-6BAC-45DF-8D44-xxxxxxxx"
```

```
}
```

Error codes

HTTP status code	Error code	Error message	Description
400	IncorrectVSwitchStatus	The current virtual switch status does not support this operation.	The specified VSwitch failed to be deleted because it is in the Pending status.

See common error codes

9.8 CreateRouteEntry

Creates a custom route entry on a VRouter or VBR.

Note the following before you call this action to add custom route entries for a VRouter:

- Up to 48 custom route entries can be created in a route table.
- The destination CIDR block of each custom route entry cannot be the same as the CIDR block of the VSwitch, and it cannot include or be included by the CIDR block of the VSwitch.
- The destination CIDR block of each custom route entry cannot be 100.64.0.0/10 or be included by 100.64.0.0/10.
- The destination CIDR blocks of route entries in the same route table cannot be the same.
- If the destination CIDR block is an IP address, the mask /32 is used.
- Multiple route entries can point to the same next hop.
- The next hop of each custom route entry and the route table must be in the same VPC.

- ECMP can be configured by using the NextHopList parameter.
  - When adding a normal custom route entry (non-ECMP), you must specify the DestinationCidrBlock, NextHopType and NextHopId parameters, and you cannot specify the NextHopList parameter.
  - When adding an ECMP route entry, you must specify the DestinationCidrBlock and NextHopList parameters, and you cannot specify the NextHopType and NextHopId parameters.

  Note the following when you call this action to add route entries for a VBR:
- Up to 48 route entries can be created in a route table.
- The NextHopList parameter is not supported.
- The destination CIDR block of each custom route entry cannot be 100.64.0.0/10 or be included in 100.64.0.0/10.
- The destination CIDR blocks of route entries in the same route table cannot be the same.
- If the destination CIDR block is an IP address, the mask /32 is used.
- Multiple route entries can point to the same next hop (NextHopId).
- The next hop (NextHopId) of each route entry must be a router interface associated with the VBR.
- The route entry can only be added when the VBR is in the Active status and the corresponding physical connection is in the Enabled status and not financially locked.
- Only common route entries (non- ECMP) can be added. You must specify the DestinationCidrBlock, NextHopType, and NextHopId parameters, and you cannot specify the HopList parameter.

Debug

Use OpenAPI Explorer to perform debug operations and generate code examples.

Request parameters

Parameter	Type	Required?	Example value	Description
`Action`	String	Yes	CreateRouteEntry	The name of this action. Value: CreateRouteEntry.

Parameter	Type	Required?	Example value	Description
DestinationCidrBlock	String	Yes	192.168.0.1/24	The destination CIDR block of the custom route entry. Both IPv4 and IPv6 destination CIDR blocks are supported. The destination CIDR block must meet the following requirements: · The destination CIDR block cannot be 100.64.0.0/10 or any of its subnets. · Different route entries in a route table cannot use the same destination CIDR block. · If the destination CIDR block is an IP address, the mask /32 is used by default. · If the destination CIDR block is an IPv6 address, the mask /128 is used.
RegionId	String	Yes	cn-hangzhou	The ID of the region to which the route table belongs.
RouteTableId	String	Yes	Vtb-bp145q7glnuzdxxxxxxxx	The ID of the route table.
ClientToken	String	No	02fb3da4-130e-11e9-8e44-001xxxxxxxx	A client token used to guarantee the idempotence of requests. This parameter value is generated by the client and must be unique. It must be 1 to 64 ASCII characters in length.
NextHopId	String	No	ri-2zeo3xzyf38r4xxxxxxxx	The ID of the instance used as the next hop.

Parameter	Type	Required?	Example value	Description
NextHopList.N.NextHopId	String	No	ri-2zeo3xzyf38r4xxxxxxxx	The ID of the instance used as the next hop.
NextHopList.N.NextHopType	String	No	RouterInterface	The type of the next hop. Valid values: RouterInterface: router interface
NextHopList.N.Weight	Integer	No	10	The routing weight of the next hop.
NextHopType	String	No	RouterInterface	The type of the next hop. Valid values: · Instance: ECS instance (default) · HaVip: HaVip · RouterInterface: router interface · NetworkInterface: Elastic Network Interface (ENI) · VpnGateway: VPN Gateway · IPv6Gateway: IPv6 Gateway

Response parameters

Parameter	Type	Example value	Description
RequestId	String	0ED8D006-F706-4D23-88ED-E11ED28DCAC0	The ID of the request.

Examples

Request example

```
https://vpc.aliyuncs.com/?Action=CreateRouteEntry
&DestinationCidrBlock=192.168.0.1/24
&RouteTableId=vtb-bp145q7glnuzdxxxxxxx
```

```
&< CommonPara  meters >
```

Response example

`XML` format

```
< CreateRout  eEntryResp  onse >
  < RequestId > 12D086F6 - 8F31 - 4658 - 84C1 - 006DED011A  85 </
 RequestId >
</ CreateRout  eEntryResp  onse >
```

`JSON` format

```
{
 " RequestId ":" 12D086F6 - 8F31 - 4658 - 84C1 - 006DED011A  85 "
}
```

Error codes

HTTP status code	Error code	Error message	Description
404	InvalidInstanId.NotFound	Specified instance does not exist.	The specified instance does not exist.
400	MissingParameter	Miss mandatory parameter.	The required parameters are missing.
400	InvalidCidrBlock.Malformed	Specified CIDR block is not valid.	The format of the specified CIDR block is invalid.
404	InvalidNextHopId.NotFound	Specified next hop does not exist.	The specified next hop does not exist.
404	InvalidRouteTableId.NotFound	Specified route table does not exist.	The specified VRouter does not exist.
400	InvalidCIDRBlock.Duplicate	Specified CIDR block is already exists.	The specified CIDR block already exists in this route table.
400	IncorrectVpcStatus	Current VPC status does not support this operation.	The current VPC status does not support this operation.

HTTP status code	Error code	Error message	Description
400	IncorrectInstanceStatus	Current instance status does not support this operation.	The current instance status does not support this operation.
400	QuotaExceeded	Route entry quota exceeded in this route table.	The route entry quota is exceeded.
400	IncorrectRouteEntryStatus	Some route entry status blocked this operation.	The route table includes entries in the Pending or Modifying status.
400	InvalidCidrBlock	Specified CIDR block is not valid.	The following are possible causes: 1. You cannot use this CIDR block because it is not configured in the whitelist of IP address 10.0.0.0/8. 2. The destination CIDR block of the added route entry cannot belong to any of the CIDR blocks of VSwitches in the same VPC. 3. The CIDR block cannot be 100.64.0.0/10.
400	InvalidNextHopType	Specified parameter "NextHopType" is not valid	The specified next hop type is invalid.
400	InvalidNextHop.NotFound	Specified next hop does not exist.	The specified next hop does not exist.
400	InvalidVRouter.NotFound	vRouter not exists.	The VRouter does not exist.
400	InvalidVpc.NotFound	Vpc not exists.	The specified VPC does not exist. Check whether you have entered the correct VPC.
400	InvalidNexthopTypeAndList.BothNull	both nexthopType and nextHopList are null.	The next hop type and next hop list are empty.

HTTP status code	Error code	Error message	Description
400	InvalidNexthopTypeAndList.BothNotNull	both nexthopType and nextHopList are not null.	The next hop type and next hop list cannot be empty at the same time.
400	InvalidRouterInterface	invalid router interface.	The specified router interface does not exist.
400	InvalidOppositeRouterType	nexthop list cannot only contain router interface whose opposite router interface is on vbr.	The type of the peer router of the router interface used as the next hop must be a VBR.
400	InvalidNexthopListSize	nexthop size is illegal. Must be between 2 and 4.	You must specify 2 to 4 router interfaces as the next hops.
400	InvalidEntryRuleQuota.NotFound	Route entry quota rule not exists.	The specified route entry quota rule does not exist.
400	Forbidden.CheckEntryRuleQuota	Route entry quota rule check error.	An error occurred while the route entry quota is being checked.
400	InvalidVBRStatus	invalid virtual border router status.	The status of the VBR is invalid.
400	InvalidPhysicalConnectionBusinessStatus	invalid physical connection business status.	The status of the physical connection is invalid.
404	InvalidHaVipId.NotFound	The specified HaVip does not exist in the specified VPC.	The specified HAVIP does not exist in the specified VPC.
400	IncorrectHaVipStatus	This operation is denied because satus of the specified HaVip is neither Available nor InUse.	This operation is not allowed because the status of the HAVIP is Available or InUse.
400	CountLimitExceed.HaVipRouteEntry	There can be 5 route entry to HaVip at most in one route table.	The number of custom route entries pointing to the specified HaVip instance has reached the limit.

HTTP status code	Error code	Error message	Description
400	InvalidRouteEntry.Duplicate	The route entry already exist.	The specified route entry already exists.
403	IncorrectInstanceStatus	The current status of the resource does not support this operation.	The current resource status does not support this operation.
400	InvalidCidrBlock	Specified CIDR block is already exists.	The specified CIDR block overlaps the CIDR block of another VSwitch or the destination CIDR block of an existing custom route entry. Select a CIDR block that is not used.
400	IncorrectRouteEntryStatus	Specified routeEntry status error.	The route table includes entries in the Pending or Modifying status.
400	IncorrectRouteEntryStatus	The vpc has NotStable routeEntry status.	This operation is not allowed because the route table includes entries in the Pending or Modifying status.
400	IncorrectRouteEntryStatus	VBR has NotStable route entry.	This operation is not allowed because the route table includes entries in the Pending or Modifying status.
400	InvalidParam	The Ecmp routerEntry with router interfaces local vgw vip not match.	The route entry does not match the VIP of the local video gateway of the router interface.
400	INVALID_WEIGHT_PARAM	Specified value of weight invalid	The specified weight is invalid.
400	FORBIDDEN_USE_VPC_AS_INTERNET_GATEWAY	The Specified CIDR must be in vpc CIDR.	The specified CIDR block must be a subset of the VPC CIDR block.

HTTP status code	Error code	Error message	Description
400	INVALID_VPC_ID	The Specified VpcId not match.	The specified VPC does not exist.
400	InvalidRouteEntrySize	The Specified routerEntry size not legal.	To configure ECMP, you must configure 2 to 4 router interfaces as the next hops.
400	InvalidRouteEntry	Specified routeEntry not exist.	The specified route entry does not exist.

See common error codes

9.9 DeleteRouteEntry

Deletes a router entry from a route table.

Note the following before deleting a route entry:

- You can only delete a route entry that is in the available state.
- You cannot delete a route entry from a VPC that is creating or deleting a VSwitch or route entry.

Debug

By using API Explorer, you can easily debug APIs, automatically generate SDK code examples, and quickly search for APIs.

Request parameters

Parameter	Type	Required?	Example value	Description
`Action`	String	Yes	DeleteRouteEntry	The name of this action. Value: `DeleteRouteEntry`
`DestinationCidrBlock`	String	Yes	0.0.0.0/0	The destination CIDR block of the route entry to be deleted. Both IPv4 and IPv6 CIDR blocks are supported.

Parameter	Type	Required?	Example value	Description
RegionId	String	Yes	cn-hangzhou	The ID of the region to which the route table belongs.
RouteTableId	String	Yes	trb-2ze3jgygk9bmsj23sfe12	The ID of the route table to which the route entry to be deleted belongs.
NextHopId	String	No	ri-2zeo3xzyf38r4urzdpvfs	The instance ID of the next hop.
NextHopList.N.NextHopId	String	No	ri-2zeo3xzyf38r43cds23qw	The instance ID of the next hop.
NextHopList.N.NextHopType	String	No	RouterInterface	The type of the next hop. Valid values: · Instance: ECS instance (default) · HaVip: HaVip · RouterInterface: router interface

Response parameters

Parameter	Type	Example value	Description
RequestId	String	0ED8D006-F706-4D23-88ED-E11ED28DCAC0	The ID of the request.

Example

Request example

```
https://vpc.aliyuncs.com/?Action=DeleteRouteEntry
&DestinationCidrBlock=0.0.0.0/0
&RouteTableId=trb-2ze3jgygk9bmsj23sfe12
```

```
&< CommonPara  meters >
```

Response example

- XML format

```
< DeleteRout  eEntryResp  onse >
  < RequestId > 0ED8D006 - F706 - 4D23 - 88ED - E11ED28DCA  C0 </
 RequestId >
</ DeleteRout  eEntryResp  onse >
```

- JSON format

```
{
 " RequestId ":" 0ED8D006 - F706 - 4D23 - 88ED - E11ED28DCA  C0 "
}
```

Error codes

HTTP status code	Error code	Error message	Description
400	MissingParameter	Miss mandatory parameter.	The required parameters are missing.
400	IncorrcetRouteEntryStatus	Some route entry status blocked this operation.	This operation cannot be performed because one or more route entries is in the pending or modifying state.
404	InvalidRouteTableId.NotFound	Specified route table does not exist.	The specified route table does not exist.
400	OperationDenied	Specified operation is denied as route entry type is system.	This operation cannot be performed because the route entry is the system route entry.
400	InvalidRouteEntry.NotFound	Route entry not exists.	The route entry does not exist.
400	InvalidVRouter.NotFound	vRouter not exists.	The router does not exist.
400	IncorrectRouteEntryStatus	VBR has NotStable route entry.	The VBR route table contains entries in the Pending or Modifying status.

HTTP status code	Error code	Error message	Description
400	IncorrectRouteEntryStatus	Specified routeEntry status error.	The route table contains entries in the Pending or Modifying state.
400	Forbbiden	Specified RouteEntry cannot allowed delete by openApi.	You cannot delete the route entry by calling an API.
400	InvalidRouteEntry	Specified routeEntry not exist.	The specified route entry does not exist.
400	IncorrectRouteEntryStatus	Vpc NotStable route entry.	The route table contains entries in the Pending or Modifying state.
400	IncorrectVpcStatus	Current VPC status does not support this operation .	The status of VPC does not support the action.

See common error codes

9.10 ModifyRouteEntry

Modifies the name of a custom route entry.

Debug

Use OpenAPI Explorer to perform debug operations and generate SDK code examples.

Request parameters

Parameter	Type	Required?	Example value	Description
`Action`	String	Yes	ModifyRouteEntry	The name of this action. Value: ModifyRouteEntry.
`RegionId`	String	Yes	cn-hangzhou	The ID of the region to which the route entry belongs.
`RouteEntryId`	String	Yes	rte-1234567890	The ID of the custom route entry.

Parameter	Type	Required?	Example value	Description
`RouteEntryName`	String	No	EntryName	The name of the route entry. The name must be 2 to 128 characters in length and start with a letter or a Chinese character. The name cannot start with `http://` or `https://`.

Response parameters

Parameter	Type	Example value	Description
RequestId	String	861E6630-AEC0-4B2D-B214-6CB5E44B7F04	The ID of the request.

Examples

Request example

```
http(s)://[Endpoint]/?Action=ModifyRouteEntry
&RegionId=cn-hangzhou
&RouteEntryId=rte-1234567890
&<CommonParameters>
```

Response example

`XML` format

```
<ModifyRouteEntryResponse>
    <RequestId>861E6630-AEC0-4B2D-B214-6CB5E44B7F04</
RequestId>
</ModifyRouteEntryResponse>
```

`JSON` format

```
{
"RequestId":"861E6630-AEC0-4B2D-B214-6CB5E44B7F04"
```

```
}
```

Errors

HTTP status code	Error code	Error message	Description
403	Forbidden	User not authorized to operate on the specified resource.	You are not authorized to use this resource.

For a list of error codes, visit the API Error Center.

9.11 DescribeRouteEntryList

Queries one or more route entries in a route table.

Debug

Use OpenAPI Explorer to perform debug operations and generate SDK code examples.

Request parameters

Parameter	Type	Required?	Example value	Description
`Action`	String	Yes	DescribeRouteEntryList	The name of this action. Value: DescribeRouteEntryList
`RegionId`	String	Yes	cn-hangzhou	The region ID of the route table to which the route entry belongs. To query the region ID, call DescribeRegions.
`RouteTableId`	String	Yes	vtb-bp1r9pvl4xen8s9ju****	The ID of the route table.

Parameter	Type	Required?	Example value	Description
`DestinationCidrBlock`	String	No	192.168.2.0/24	The destination CIDR block of the route entry. IPv4 and IPv6 CIDR blocks are supported. Note: Only the China site supports IPv6 CIDR blocks.
`IpVersion`	String	No	IPv4	The version of the IP protocol. Valid values: · IPv4: IPv4 protocol · IPv6: IPv6 protocol Note: Only the China site supports the IPv6 protocol.
`MaxResult`	Integer	No	50	The number of entries per page in the case of a paged query result. Value range: 20 to 100. Default value: 50
`NextHopId`	String	No	vpn-bp10zyaph5cc8b7c7****	The instance ID of the next hop.

Parameter	Type	Required?	Example value	Description
NextHopType	String	No	Instance	The type of the next hop. Valid values: · Instance: ECS instance · HaVip: High-Availability Virtual IP Address · VpnGateway: VPN Gateway · NatGateway: NAT Gateway · NetworkInterface: Secondary Elastic Network Interface · RouterInterface: router interface · IPv6Gateway: IPv6 Gateway Note: Only the China site supports IPv6 Gateways as next hops.
NextToken	String	No	caeba0bbb2be03f84eb48b699f0a4883	The token for the next query.
RouteEntryId	String	No	rte-bp1mnnr2al0naomnp****	The ID of the route entry.
RouteEntryName	String	No	abc	The name of the route entry.
RouteEntryType	String	No	System	The type of the route entry. Valid values: · Custom: custom route entry · System: system route entry

Response parameters

Parameter	Type	Example value	Description
NextToken	String	caeba0bbb2be03f84eb48b699f0a4883	The token for the next query.

Parameter	Type	Example value	Description
RequestId	String	14A07460-EBE7-47CA-9757-12CC4761D47A	The ID of the request.
RouteEntrys			The list of route entries.
RouteEntry			The details of a route entry.
DestinationCidrBlock	String	10.0.0.0/24	The destination CIDR block of the route entry.
IpVersion	String	IPv4	The version of the IP protocol. · IPv4: IPv4 protocol · IPv6: IPv6 protocol
NextHops			The list of next hops.
NextHop			The details of the next hop.
Enabled	Integer	0	Indicates whether the route entry is available. · 0: Indicates that the route entry is unavailable. · 1: Indicates that the route entry is available.
NextHopId	String	vpn-bp10zyaph5cc8b7c7****	The instance ID of the next hop.
NextHopRegionId	String	cn-hangzhou	The region ID of the next hop instance.
NextHopRelatedInfo			The association information of the next hop.
InstanceId	String	vpc-bp1t36rn9l53iwbsf****	The ID of the instance associated with the next hop.

Parameter	Type	Example value	Description
InstanceType	String	VPC	The type of the instance associated with the next hop. · VPC: Virtual Private Cloud · VBR: Virtual Border Router
RegionId	String	ch-hangzhou	The region ID of the instance associated with the next hop.
NextHopType	String	Instance	The type of the next hop. · Instance: ECS instance · HaVip: High-Availability Virtual IP Address · VpnGateway: VPN Gateway · NatGateway: NAT Gateway · NetworkInterface: Secondary Elastic Network Interface · RouterInterface: router interface · IPv6Gateway: IPv6 Gateway Note: Only the China site supports IPv6 Gateways as next hops.
Weight	Integer	100	The weight of the route entry.
RouteEntryId	String	rte-bp1mnnr2al0naomnp****	The ID of the route entry.
RouteEntryName	String	aaa	The name of the route entry.
RouteTableId	String	vtb-bp15w5q90d2rk3bww****	The ID of the route table.
Status	String	Available	The status of the route entry.
Type	String	Custom	The type of the route entry. · Custom: custom route entry · System: system route entry

Examples

Request example

```
 http ( s )://[ Endpoint ]/?  Action = DescribeRo  uteEntryLi  st
& RegionId = cn - hangzhou
& RouteTable  Id = vtb - bp1r9pvl4x  en8s9ju ****
&< CommonPara  meters >
```

Response example

`XML` format

```
< DescribeRo  uteEntryLi  stResponse >
   < NextToken ></ NextToken >
   < RouteEntry  s >
      < RouteEntry >
         < NextHops >
            < NextHop >
               < NextHopId > eni - bp16v0fuhu  lfl5e1 ****</ NextHopId
 >
               < NextHopRel  atedInfo ></ NextHopRel  atedInfo >
               < NextHopTyp  e > NetworkInt  erface </ NextHopTyp  e >
            </ NextHop >
         </ NextHops >
         < Status > Available </ Status >
         < RouteEntry  Name > ENI </ RouteEntry  Name >
         < RouteEntry  Id > rte - bp1aejenqy  g5zcmv4 ****</
 RouteEntry  Id >
         < Type > Custom </ Type >
         < IpVersion > ipv4 </ IpVersion >
         < RouteTable  Id > vtb - bp15w5q90d  2rk3bww ****</
 RouteTable  Id >
         < Destinatio  nCidrBlock > 103 . 0 . 0 . 0 / 32 </
 Destinatio  nCidrBlock >
      </ RouteEntry >
   </ RouteEntry  s >
   < RequestId > 57828ADD - F0C4 - 4125 - AF79 - 6556D44C52  77 </
 RequestId >
</ DescribeRo  uteEntryLi  stResponse >
```

`JSON` format

```
{
 " NextToken ":"",
 " RouteEntry  s ":{
  " RouteEntry ":[
   {
    " Status ":" Available ",
    " NextHops ":{
     " NextHop ":[
      {
       " NextHopId ":" eni - bp16v0fuhu  lfl5e1 ****",
       " NextHopRel  atedInfo ":{},
       " NextHopTyp  e ":" NetworkInt  erface "
      }
     ]
    },
    " RouteEntry  Name ":" ENI ",
```

```
    " Type ":" Custom ",
    " RouteEntry  Id ":" rte - bp1aejenqy  g5zcmv4 ****",
    " IpVersion ":" ipv4 ",
    " RouteTable  Id ":" vtb - bp15w5q90d  2rk3bww ****",
    " Destinatio  nCidrBlock ":" 103 . 0 . 0 . 0 / 32 "
   }
  ]
 },
 " RequestId ":" 57828ADD - F0C4 - 4125 - AF79 - 6556D44C52  77 "
}
```

Errors

For a list of error codes, visit the API Error Center.

10 Region

10.1 DescribeZones

Queries one or more zones in a region.

Debug

By using API Explorer, you can easily debug APIs, automatically generate SDK code examples, and quickly search for APIs.

Request parameters

Parameter	Type	Required?	Example value	Description
`Action`	String	Yes	DescribeZones	The name of this action. Value: `DescribeZones`
`RegionId`	String	Yes	cn-hangzhou	The ID of the region. To query the region ID, call `DescribeRegions`.

Response parameters

Parameter	Type	Example value	Description
Zones	N/A	N/A	A list of zones.
└LocalName	String	China Hangzhou Zone B	The name of the zone.
└ZoneId	String	cn-hangzhou-b	The ID of the zone.
RequestId	String	6FEA0CF3-D3B9-43E5-A304-D217037876A8	The ID of the request.

Examples

Request example

```
 https :// vpc . aliyuncs . com /? RegionId = cn - hangzhou
&< CommonPara  meters >
```

Response example

XML format

```
<? xml   version =" 1 . 0 "  encoding =" UTF - 8 " ?>
< DescribeZo  nesRespons  e >
< RequestId > 6FEA0CF3 - D3B9 - 43E5 - A304 - D217037876  A8 </
 RequestId >
 < Zones >
  < Zone >
   < ZoneId > cn - hangzhou - b </ ZoneId >
   < LocalName > China   Hangzhou   Zone   B </ LocalName >
  </ Zone >
  < Zone >
   < ZoneId > cn - hangzhou - d </ ZoneId >
   < LocalName > China   Hangzhou   Zone   D </ LocalName >
  </ Zone >
  < Zone >
   < ZoneId > cn - hangzhou - e </ ZoneId >
   < LocalName > China   Hangzhou   Zone   E </ LocalName >
  </ Zone >
  < Zone >
   < ZoneId > cn - hangzhou - f </ ZoneId >
   < LocalName > China   Hangzhou   Zone   F </ LocalName >
  </ Zone >
  < Zone >
   < ZoneId > cn - hangzhou - g </ ZoneId >
   < LocalName > China   Hangzhou   Zone   G </ LocalName >
  </ Zone >
  < Zone >
   < ZoneId > cn - hangzhou - h </ ZoneId >
   < LocalName > China   Hangzhou   Zone   H </ LocalName >
  </ Zone >
 </ Zones >
< DescribeZo  nesRespons  e >
```

JSON format

```
{
 " RequestId ":" 6FEA0CF3 - D3B9 - 43E5 - A304 - D217037876  A8 ",
 " Zones ":{
  " Zone ":[
   {
    " ZoneId ":" cn - hangzhou - b ",
    " LocalName ":" China   Hangzhou   Zone   B "
   },
   {
    " ZoneId ":" cn - hangzhou - d ",
    " LocalName ":" China   Hangzhou   Zone   D "
   },
   {
    " ZoneId ":" cn - hangzhou - e ",
```

```
      " LocalName ":" China   Hangzhou   Zone   E "
    },
    {
      " ZoneId ":" cn - hangzhou - f ",
      " LocalName ":" China   Hangzhou   Zone   F "
    },
    {
      " ZoneId ":" cn - hangzhou - g ",
      " LocalName ":" China   Hangzhou   Zone   G "
    },
    {
      " ZoneId ":" cn - hangzhou - h ",
      " LocalName ":" China   Hangzhou   Zone   H "
    }
  ]
 }
}
```

Error codes

See common error codes

10.2 DescribeAccessPoints

Queries one or more physical connection access points in a region.

Debug

By using API Explorer, you can easily debug APIs, automatically generate SDK code examples, and quickly search for APIs.

Request parameters

Parameter	Type	Required?	Example value	Description
`Action`	String	Yes	DescribeAccessPoints	The name of this action. Value: `DescribeAccessPoints`
`RegionId`	String	Yes	cn-hangzhou	The region to which the access point belongs. To query the region ID, call `DescribeRegions`.
`Filter.N.Key`	String	No	Status	The type of the n-th filter. Value range of N: 1 to 5.

Parameter	Type	Required?	Example value	Description
`Filter.N.Value.M`	RepeatList	No	recommend	The m-th value of the n-th filter. Value range of M: 1 to 5.
`HostOperator`	String	No	Telecom	The service provider to which the data center connected to the access point belongs.
`Name`	String	No	test	The name of the access point.
`PageNumber`	Integer	No	2	The number of pages to return. Default value: `1`.
`PageSize`	Integer	No	10	The number of rows per page. Maximum value: `50`. Default value: `10`.

Response parameters

Parameter	Type	Example value	Description
AccessPointSet	N/A	N/A	A list of access points.
└AccessPointId	String	ap-cn-beijing-ft-A	The ID of the access point.
└AttachedRegionNo	String	cn-beijing	The region of the access point.
└Description	String	ap1	The description of the access point.
└HostOperator	String	CNIX	The service provider of the access point.
└Location	String	aplocation	The location of the access point.
└Name	String	Beijing-Fengtai-A	The name of the access point.

Parameter	Type	Example value	Description
└Status	String	recommended	The status of the access point.
└Type	String	VPC	The network type of the access of the physical connection.
TotalCount	Integer	5	The number of queried entries.
PageNumber	Integer	1	The current page number.
PageSize	Integer	10	The number of entries per page.
RequestId	String	3E85D803-C7CF-4BCD-9CFE-6DBA1DFFA027	The ID of the request.

Examples

Request example

```
 https :// vpc . aliyuncs . com /? RegionId = cn - hangzhou
&< CommonPara  meters >
```

Response example

XML format

```
< DescribeAc  cessPoints  Response >
  < AccessPoin  tSet >
    < AccessPoin  tType >
      < Name > Beijing - Fengtai - A </ Name >
      < Status > recommende  d </ Status >
      < Descriptio  n > cn - beijing - ft - cxp32 </ Descriptio  n >
      < Type > VPC </ Type >
      < Location />
      < HostOperat  or > xxx </ HostOperat  or >
      < AttachedRe  gionNo > cn - beijing </ AttachedRe  gionNo >
      < AccessPoin  tId > ap - cn - beijing - ft - A </ AccessPoin
 tId >
    </ AccessPoin  tType >
    < AccessPoin  tType >
      < Name > Beijing - Yizhuang - A </ Name >
      < Status > recommende  d </ Status >
      < Descriptio  n > cn - beijing - yz - ne203 </ Descriptio  n >
      < Type > VPC </ Type >
      < Location />
      < HostOperat  or > xxx </ HostOperat  or >
      < AttachedRe  gionNo > cn - beijing </ AttachedRe  gionNo >
      < AccessPoin  tId > ap - cn - beijing - yz - A </ AccessPoin
 tId >
    </ AccessPoin  tType >
```

```
    < AccessPoin  tType >
      < Name > Beijing - Daxing - B </ Name >
      < Status > recommende  d </ Status >
      < Descriptio  n > cn - beijing - dx - nu16 </ Descriptio  n >
      < Type > VPC </ Type >
      < Location />
      < HostOperat  or > China   Unicom </ HostOperat  or >
      < AttachedRe  gionNo > cn - beijing </ AttachedRe  gionNo >
      < AccessPoin  tId > ap - cn - beijing - dx - B </ AccessPoin
 tId >
    </ AccessPoin  tType >
    < AccessPoin  tType >
      < Name > Beijing - Changping - A </ Name >
      < Status > recommende  d </ Status >
      < Descriptio  n > ap - cn - beijing - cp - CM12 </ Descriptio  n
 >
      < Type > VPC </ Type >
      < Location />
      < HostOperat  or > China   Telecom </ HostOperat  or >
      < AttachedRe  gionNo > cn - beijing </ AttachedRe  gionNo >
      < AccessPoin  tId > ap - cn - beijing - cp - A </ AccessPoin
 tId >
    </ AccessPoin  tType >
    < AccessPoin  tType >
      < Name > Beijing - Daxing - A </ Name >
      < Status > recommende  d </ Status >
      < Descriptio  n > cn - beijing - dx - nu17 - a </ Descriptio  n
 >
      < Type > VPC </ Type >
      < Location />
      < HostOperat  or > GDS </ HostOperat  or >
      < AttachedRe  gionNo > cn - beijing </ AttachedRe  gionNo >
      < AccessPoin  tId > ap - cn - beijing - dx - A </ AccessPoin
 tId >
    </ AccessPoin  tType >
  </ AccessPoin  tSet >
  < PageNumber > 1 </ PageNumber >
  < TotalCount > 5 </ TotalCount >
  < PageSize > 10 </ PageSize >
  < RequestId > 3E85D803 - C7CF - 4BCD - 9CFE - 6DBA1DFFA0  27 </
 RequestId >
</ DescribeAc  cessPoints  Response >
```

JSON format

```
{
 " PageNumber ": 1 ,
 " AccessPoin  tSet ":{
  " AccessPoin  tType ":[
   {
    " Name ":" Beijing - Fengtai - A ",
    " Status ":" recommende  d ",
    " Descriptio  n ":" cn - beijing - ft - cxp32 ",
    " Type ":" VPC ",
    " Location ":"",
    " HostOperat  or ":" CNIX ",
    " AttachedRe  gionNo ":" cn - beijing ",
    " AccessPoin  tId ":" ap - cn - beijing - ft - A "
   },
   {
    " Name ":" Beijing - Yizhuang - A ",
    " Status ":" recommende  d ",
    " Descriptio  n ":" cn - beijing - yz - ne203 ",
```

```
    " Type ":" VPC ",
    " Location ":"",
    " HostOperat  or ":" 21vianet ",
    " AttachedRe  gionNo ":" cn - beijing ",
    " AccessPoin  tId ":" ap - cn - beijing - yz - A "
   },
   {
    " Name ":" Beijing - Daxing - B ",
    " Status ":" recommende  d ",
    " Descriptio  n ":" cn - beijing - dx - nu16 ",
    " Type ":" VPC ",
    " Location ":"",
    " HostOperat  or ":" China   Unicom ",
    " AttachedRe  gionNo ":" cn - beijing ",
    " AccessPoin  tId ":" ap - cn - beijing - dx - B "
   },
   {
    " Name ":" Beijing - Changping - A ",
    " Status ":" recommende  d ",
    " Descriptio  n ":" ap - cn - beijing - cp - CM12 ",
    " Type ":" VPC ",
    " Location ":"",
    " HostOperat  or ":" China   Telecom ",
    " AttachedRe  gionNo ":" cn - beijing ",
    " AccessPoin  tId ":" ap - cn - beijing - cp - A "
   },
   {
    " Name ":" Beijing - Daxing - A ",
    " Status ":" recommende  d ",
    " Descriptio  n ":" cn - beijing - dx - nu17 - a ",
    " Type ":" VPC ",
    " Location ":"",
    " HostOperat  or ":" GDS ",
    " AttachedRe  gionNo ":" cn - beijing ",
    " AccessPoin  tId ":" ap - cn - beijing - dx - A "
   }
  ]
 },
 " TotalCount ": 5 ,
 " PageSize ": 10 ,
 " RequestId ":" 3E85D803 - C7CF - 4BCD - 9CFE - 6DBA1DFFA0  27 "
}
```


Error codes

HTTP status code	Error code	Error message	Description
404	InvalidRegionId.NotSupport	The RegionId provided does not support in our records.	The specified region ID is invalid.

See common error codes

10.3 DescribeRegions

Queries one or more regions.

Debug

By using API Explorer, you can easily debug APIs, automatically generate SDK code examples, and quickly search for APIs.

Request parameters

Parameter	Type	Required?	Example value	Description
`Action`	String	Yes	DescribeRegions	The name of this action. Value: `DescribeRegions`
`AcceptLanguage`	String	No	zh-CN	The language of the return value. Valid values: · `zh-CN` (default): Chinese · `en-US`: English
`ProductType`	String	No	vpc	The product type.

Response parameters

Parameter	Type	Example value	Description
Regions			A list of regions.
└LocalName	String	China Qingdao	The name of the region.
└RegionEndpoint	String	vpc.aliyuncs.com	The endpoint of the service in this region.
└RegionId	String	cn-qingdao	The ID of the region.
RequestId	String	611CB80C-B6A9-43DB-9E38-0B0AC3D9B58F	The ID of the request.

Examples

Request example

```
https :// vpc . aliyuncs . com /?< CommonPara  meters >
```

Response example

XML format

```
<?  xml   version =" 1 . 0 "  encoding =" UTF - 8 " ? >
< DescribeRe  gionsRespo  nse >
< RequestId > 611CB80C - B6A9 - 43DB - 9E38 - 0B0AC3D9B5  8F </
 RequestId >
< Regions >
 < Region >
  < RegionId > cn - qingdao </ RegionId >
  < RegionEndp  oint > vpc . aliyuncs . com </ RegionEndp  oint >
  < LocalName > China   North   1 </ LocalName >
 </ Region >
 < Region >
  < RegionId > eu - central - 1 </ RegionId >
  < RegionEndp  oint > vpc . eu - central - 1 . aliyuncs . com </
 RegionEndp  oint >
  < LocalName > Germany  ( Frankfurt )</ LocalName >
 </ Region >
< Regions >
</ DescribeRe  gionsRespo  nse >
```

JSON format

```
{
    " RequestId ": " 2F026E79 - 30AD - 47B6 - 9E7D - D1D4BA77F1  F1
 ",
    " Regions ": {
        " Region ": [
            {
                " RegionId ": " cn - qingdao ",
                " RegionEndp  oint ": " vpc . aliyuncs . com ",
                " LocalName ": " China   North   1 "
            },
            {
                " RegionId ": " eu - central - 1 ",
                " RegionEndp  oint ": " vpc . eu - central - 1 .
 aliyuncs . com ",
                " LocalName ": " Germany  ( Frankfurt )"
            }
        ]
    }
}
```

Error codes

See common error codes

11 Router interface

11.1 CreateRouterInterface

Creates a router interface.

Note the following before you call this action:

- Up to one pair of interconnected router interfaces can be created between two VRouters.
- Up to five router interfaces can be created on a VRouter.
- If a delinquent router interface is under your account, you can no longer create router interfaces.
- Route entries in the same route table cannot have the same destination CIDR blocks.
- The VBR must be the connection initiator and must be in the Activated status.

> Note:
> Router interfaces created by calling this action only support the Pay-As-You-Go billing method.

Debug

By using API Explorer, you can easily debug APIs, automatically generate SDK code examples, and quickly search for APIs.

Request parameters

Parameter	Type	Required?	Example value	Description
`Action`	String	Yes	CreateRouterInterface	The name of this action. Value: `CreateRouterInterface`
`OppositeRegionId`	String	Yes	cn-shanghai	The region of the connection acceptor.

Parameter	Type	Required?	Example value	Description
`RegionId`	String	Yes	cn-hangzhou	The region to which the router interface belongs. To query the region ID, call `DescribeRegions`.
`Role`	String	Yes	Initiating Side|AcceptingSide	The role of the router interface. Valid values: · `Initiating Side`: Connection initiator. · `AcceptingSide`: Connection acceptor.
`RouterId`	String	Yes	cn-hangzhou	The ID of the router associated with the router interface.
`RouterType`	String	Yes	VRouter	The type of the router associated with the router interface. Valid values: · `VRouter`: VRouter · `VBR`: VBR

Parameter	Type	Required?	Example value	Description
`Spec`	String	Yes	Large	The specification of the router interface. The following are available specifications and the corresponding bandwidths: · `Mini.2`: 2 Mbps · `Mini.5`: 5 Mbps · `Small.1`: 10 Mbps · `Small.2`: 20 Mbps · `Small.5`: 50 Mbps · `Middle.1`: 100 Mbps · `Middle.2`: 200 Mbps · `Middle.5`: 500 Mbps · `Large.1`: 1000 Mbps · `Large.2`: 2000 Mbps · `Large.5`: 5000 Mbps · `Xlarge.1`: 10000 Mbps Note: The value of `Spec` is `Negative` when the role is AcceptingSide.
`AccessPointId`	String	No	ap-cn-shanghaiSZ-pd-A	The ID of the access point to which the VBR belongs. To query the region ID, call `DescribeAccessPoints`. Note: You must specify this parameter in the scenario of physical access.

Parameter	Type	Required?	Example value	Description
`AutoPay`	String	No	false	Whether the order is paid automatically. Valid values: · `false` Automatic payment is not enabled. You need to go to the Order center to complete the payment after the order is generated. · `true` : Automatic payment is enabled and the order is paid automatically. Note: This parameter is required if the value of `InstanceChargeType` is `PrePaid` .
`ClientToken`	String	No	sjffha123334	A client token used to guarantee the idempotence of requests. This parameter value is generated by the client and is guaranteed to be unique among different requests. It must be 1 to 64 ASCII characters in length.
`Description`	String	No	This is my description.	The description of the router interface. The description must be 2 to 256 characters in length. It must start with a letter but cannot start with `http://` or `https://`.

Parameter	Type	Required?	Example value	Description
`HealthCheckSourceIp`	String	No	116.62.222.28	The source IP address used to perform health check. It must be an unused IP address of the local VPC. Note: You can specify this parameter in the scenario of physical access.
`HealthCheckTargetIp`	String	No	116.62.222.28	The destination IP address of health check. Note: This parameter is required if the `HealthCheckSourceIp` parameter is specified.
`InstanceChargeType`	String	No	PrePaid	The billing method of the router interface. Valid values: · `PostPaid` (default): Pay-As-You-Go
`Name`	String	No	Router interface 1	The name of the router interface. The name must be 2 to 128 characters in length. It can contain letters, numbers, periods (.), underscores (_), and hyphens (-). It must start with a letter but cannot start with `http://` or `https://`.
`OppositeAccessPointId`	String	No	ap-cn-shanghaiSZ-pd-A	The ID of the access point of the peer router interface. Note: This parameter is required when the peer router interface is on a VBR. It cannot be modified after the router interface is created.

Parameter	Type	Required?	Example value	Description
`OppositeInterfaceId`	String	No	ri-2zeo3xzyf38r4urzdpvfs	The ID of the peer router interface.
`OppositeInterfaceOwnerId`	String	No	fffsf	The ID of the owner of the peer router interface.
`OppositeRouterId`	String	No	vrt-bp1lhl0taikrteen80oxx	The ID of the peer router.
`OppositeRouterType`	String	No	VRouter	The type of the router associated with the peer router interface. Valid values: · `VRouter` : VRouter · `VBR` : VBR
`Period`	String	No	3	The validity period of the purchase. Value ranges: · Payments on a monthly basis: 1 to 9. · Payments on a yearly basis: 1 to 3. Note: When the value of the `InstanceChargeType` parameter is `PrePaid` , this parameter is required.

Parameter	Type	Required?	Example value	Description
PricingCycle	String	No	Month	The billing cycle of the Subscription billing method. Valid values: · Month (default): billing on a monthly basis · Year : billing on a yearly basis Note: This parameter is required if the value of the InstanceChargeType parameter is PrePaid 5.

Response parameters

Parameter	Type	Example value	Description
OrderId	String	202008594930117	The order number. This parameter is returned if you select the Subscription billing method.
RequestId	String	079874CD-AEC1-43E6-AC03-ADD96B6E4907	The ID of the request.
RouterInterfaceId	String	ri-2ze7fbuohmxxxxxx	The ID of the router interface.

Examples

Request example

```
http(s)://vpc.aliyuncs.com/?Action=CreateRouterInterface
&OppositeRegionId=cn-shanghai
&RegionId=cn-hangzhou
&Role=InitiatingSide|AcceptingSide
&RouterId=cn-hangzhou
&RouterType=VRouter
&Spec=Large
```

```
&< CommonPara  meters >
```

Response example

- XML format

```
< CreateRout  erInterfac  eResponse >
  < RequestId > 980960B0 - 2969 - 40BF - 8542 - EBB34FD358  AB </
 RequestId >
  < RouterInte  rfaceId > ri - 2ze7fbuohm  xxxxxx </ RouterInte
 rfaceId >
</ CreateRout  erInterfac  eResponse >
```

- JSON format

```
{
 " RouterInte  rfaceId ":" ri - 2ze7fbuohm  xxxxxx ",
 " RequestId ":" 980960B0 - 2969 - 40BF - 8542 - EBB34FD358  AB "
}
```

Error codes

HTTP status code	Error code	Error message	Description
404	InvalidRegionId.NotFound	The regionId provided does not exist in our records.	The specified region ID does not exist.
400	InvalidRole.ValueNotSupported	The specified Role is not valid.	The specified role is invalid.
400	InvalidSpec.ValudNotSupported	The specified Spec is not supported.	The specified specification is not supported.
400	InvalidRouterType.ValueNotSupported	The specified RouterType is not valid.	The specified router type is invalid.
404	InvalidRouterId.NotFound	The specified RouterId does not exist in our recored.	The specified router ID does not exist.

HTTP status code	Error code	Error message	Description
400	InvalidDescription.Malformed	The specifid "Description" is not valid.	The specified description is invalid. The description must be 2 to 256 characters in length. It cannot start with http:// or https://.
400	Forbidden.BillsOutstanding	You cannot create more RouterInterface because you have bills outstanding.	You cannot create router interfaces because you have overdue payments.
400	LimitationExceed.InterfaceNumberOnRouter	Total number of RouterInterfaces on a Router exceeded.	The quota for router interfaces has been reached.
400	Forbidden.NotInRouterInterfaceCreateWhitelist	Not in router interface create whitelist.	It does not exist in the whitelist of the router interface.
400	RI_CREATE_ONE_LIMIT_BY_SYNC	Create ri only one limit by sync.	Only one router interface can be created at a time.
400	InvalidAccessPoint.ValueNotAllowed	The non-vbr router interface cannot have access point configured.	You cannot configure an access point for a router interface not on a VBR.
400	InvalidAccessPoint.ValueNotAllowed	The non-vbr opposite router interface cannot have opposite access point configured.	You cannot configure an access point for a router interface not on a VBR.
400	InvalidAccessPoint.NotMatch	The accessPoint id is not matched	The ID of the access point is invalid.
400	InvalidAccessPoint.NotExist	The accessPoint not exit	The specified access point does not exist.

HTTP status code	Error code	Error message	Description
400	InvalidRouterType.ValueNotSupported	The specified RouterType is not valid	The specified router type is invalid.
400	ForbiddenAction	The user dose not supported this action.	You are not authorized to do this operation.

See common error codes

11.2 DescribeRouterInterfaces

Queries one or more router interfaces in a region.

You can filter the results using the following filters. The relationship between the values of a filter is “or”. A router interface is returned so long as one filter is met. The relationship between filters is “and”. A router interface is returned only all the filters are met.

- RouterInterfaceId: The ID of the router interface.
- RouterId: The ID of the router.
- RouterType: The type of the router. Valid values: VRouter| VBR.
- RouterInterfaceOwnerId: The ID of the account to which the router interface belongs.
- OppositeInterfaceId: The ID of the peer router interface.
- OppositeRouterType: The type of the peer router interface. Valid values:VRouter | VBR.
- OppositeRouterId: The ID of the peer router interface.
- OppositeInterfaceOwnerId: The ID of the account to which the peer router interface belongs.
- Status: The status of the router interface.
- Name : The name of the router interface.

Debug

By using API Explorer, you can easily debug APIs, automatically generate SDK code examples, and quickly search for APIs.

Request parameters

Parameter	Type	Required?	Example value	Description
`Action`	String	Yes	DescribeRouterInterfaces	The value of this action. Value: `DescribeRouterInterfaces`
`RegionId`	String	Yes	cn-hangzhou	The ID of the region to which one or more router interfaces belongs. To query the region ID, call `DescribeRegions`.
`Filter.n.Key`	String	No	Filter.1.status	Filter keys. Up to five filters are supported. Value range of `n`: 1 to 5.
`Filter.n.Value.m`	String	No	Filter.1.Active	The corresponding value of the specified filter key. Value range of `m`: 1 to 5.
`IncludeReservationData`	Boolean	No	false	Indicates whether renewal data is included.
`PageNumber`	Integer	No	0	The number of pages to return. Default value: `1`.
`PageSize`	Integer	No	10	The number of entries per page. Maximum value: `50`. Default value: `10`.

Response parameters

Parameter	Type	Example value	Description
TotalCount	Integer	10	The number of queried entries.
PageNumber	Integer	10	The current page number.

Parameter	Type	Example value	Description
PageSize	Integer	10	The number of entries per page.
RequestId	String	C7F6FCBD-F9CC-4501-8EF3-CDC9577CAE45	The ID of the request.
RouterInterfaceSet	N/A	N/A	A list of router interfaces.
└AccessPointId	String	ap-cn-shanghaiSZ-pd-A	The ID of the access point.
└Bandwidth	Integer	10	The bandwidth of the router interface.
└BusinessStatus	String	Normal	The business status of the router interface. · Normal: normal · FinancialLocked: locked because the router interface is overdue · SecurityLocked: locked for security protection
└ ChargeType	String	PayByTraffic	The payment method.
└ ConnectedTime	String	2017-06-08T12:20:55	The time at which the connection was established.
└CreationTime	String	2017-06-08T12:20:55	The time at which the route table was created.
└CrossBorder	Boolean	false	Indicates whether the connection is a cross-border connection.
└Description	String	This is my router interface.	The description of the router interface.
└EndTime	String	2017-06-08T12:20:55	The end time of data obtaining.

Parameter	Type	Example value	Description
└HasReservationData	String	false	Whether renewal data is obtained.
└HealthCheckSourceIp	String	116.62.222.28	The source IP of health check.
└HealthCheckTargetIp	String	116.62.222.28	The target IP of health check.
└Name	String	test	The name of the router interface.
└OppositeAccessPointId	String	ap-cn-shanghaiSZ-pd-A	The ID of the peer access point.
└OppositeBandwidth	Integer	12	The bandwidth of the peer router interface.
└OppositeInterfaceBusinessStatus	String	Normal	The business status of the peer router interface.
└OppositeInterfaceId	String	ri-bp1itx13bwe6f2wfh3qpj	The ID of the peer router interface.
└OppositeInterfaceOwnerId	String	1231579085529123	The ID of account to which the peer router interface belongs.
└OppositeInterfaceSpec	String	Large	The specification of the peer router interface.
└OppositeInterfaceStatus	String	Normal	The status of the peer router interface.
└OppositeRegionId	String	cn-shanghai	The region where the peer router interface is located.
└OppositeRouterId	String	vrt-bp1d3bxtdv68tfd7gfjkd	The ID of the router to which the peer router interface belongs.

Parameter	Type	Example value	Description
└OppositeRouterType	String	VRouter	The type of the router to which the peer router interface belongs.
└OppositeVpcInstanceId	String	vpc-bp1qpo0kug3a20qqe9h7v	The ID of the VPC to which the peer router interface belongs.
└ReservationActiveTime	String	2019-03-11T16:00:00Z	The time at which the renewal takes effect.
└ReservationBandwidth	String	10	The bandwidth for the renewal.
└ReservationInternetChargeType	String	PayByBandwidth	The payment type for the renewal.
└ReservationOrderType	String	RENEWCHANGE	The order type for the renewal.
└Role	String	InitiatingSide	The role in a peering connection.
└RouterId	String	vrt-bp1d3bxtdv68tfd7gfjkd	The ID of the router to which the route entry belongs.
└RouterInterfaceId	String	ri-2zenfgfpyu3v93koa4sfo	The ID of the router interface.
└RouterType	String	VRouter	The type of the router to which the route table belongs. Valid values: · VRouter: VRouter · VBR: VBR
└Spec	String	Large	The specification of the router interface.
└Status	String	active	The status of the router interface.
└VpcInstanceId	String	vpc-2ze3tq4uxhysg717x7o4d	The ID of the local VPC in the peering connection.

Examples

Request example

```
 https :// vpc . aliyuncs . com /? Action = DescribeRo  uterInterf
 aces
& RegionId =  cn - hangzhou
&< CommonPara  meters >
```

Response example

- XML format

```
<? xml   version =" 1 . 0 "  encoding =" UTF - 8 " ?>
< DescribeRo  uterInterf  acesRespon  se >
 < PageNumber > 1 </ PageNumber >
 < TotalCount > 2 </ TotalCount >
 < PageSize > 10 </ PageSize >
 < RequestId > 01818199 - 04F6 - 47F4 - 9ADF - 7CC824CF57  A4 </
 RequestId >
 < RouterInte  rfaceSet >
  < RouterInte  rfaceType >
   < ChargeType > Prepaid </ ChargeType >
   < HasReserva  tionData > false </ HasReserva  tionData >
   < OppositeIn  terfaceBus  inessStatu  s > Normal </ OppositeIn
 terfaceBus  inessStatu  s >
   < RouterInte  rfaceId > ri - 2zenfgfpyu  3v93koa4sf  o </
 RouterInte  rfaceId >
   < OppositeIn  terfaceSta  tus > Deleted </ OppositeIn
 terfaceSta  tus >
   < Spec > Small . 5 </ Spec >
   < OppositeIn  terfaceOwn  erId > 1231579085  529123 </
 OppositeIn  terfaceOwn  erId >
   < CrossBorde  r > false </ CrossBorde  r >
   < OppositeIn  terfaceSpe  c > Negative </ OppositeIn  terfaceSpe
 c >
   < CreationTi  me > 2017 - 12 - 27T06 : 34 : 30Z </ CreationTi  me
 >
   < RouterType > VRouter </ RouterType >
   < Status > Inactive </ Status >
   < OppositeRo  uterType > VRouter </ OppositeRo  uterType >
   < OppositeRo  uterId > vrt - bp1el837xk  kakub7ci0t  j </
 OppositeRo  uterId >
   < OppositeIn  terfaceId > ri - bp1itx13bw  e6f2wfh3qp  j </
 OppositeIn  terfaceId >
   < VpcInstanc  eId > vpc - 2ze3tq4uxh  ysg717x7o4  d </
 VpcInstanc  eId >
   < RouterId > vrt - 2zeazning6  tbzkm5c0jj  2 </ RouterId >
   < ConnectedT  ime > 2017 - 12 - 27T06 : 34 : 37Z </ ConnectedT
 ime >
   < OppositeRe  gionId > cn - hangzhou </ OppositeRe  gionId >
   < BusinessSt  atus > Normal </ BusinessSt  atus >
   < Role > Initiating  Side </ Role >
   < OppositeVp  cInstanceI  d > vpc - bp1iq3579f  26c3gpkj92  e </
 OppositeVp  cInstanceI  d >
   < EndTime > 2018 - 01 - 27T16 : 00 : 00Z </ EndTime >
  </ RouterInte  rfaceType >
  < RouterInte  rfaceType >
   < ChargeType > Prepaid </ ChargeType >
   < HasReserva  tionData > false </ HasReserva  tionData >
```

```
    < OppositeIn  terfaceBus  inessStatu  s > Normal </ OppositeIn
  terfaceBus  inessStatu  s >
    < RouterInte  rfaceId > ri - 2zegbp7nhj  0mnwm6irnu  o </
  RouterInte  rfaceId >
    < OppositeIn  terfaceSta  tus > Deleted </ OppositeIn
  terfaceSta  tus >
    < Spec > Small . 1 </ Spec >
    < OppositeIn  terfaceOwn  erId > 1231579085  529123 </
  OppositeIn  terfaceOwn  erId >
    < CrossBorde  r > false </ CrossBorde  r >
    < OppositeIn  terfaceSpe  c > Negative </ OppositeIn  terfaceSpe
  c >
    < CreationTi  me > 2017 - 12 - 27T06 : 31 : 30Z </ CreationTi  me
  >
    < RouterType > VRouter </ RouterType >
    < Status > Inactive </ Status >
    < OppositeRo  uterType > VRouter </ OppositeRo  uterType >
    < OppositeRo  uterId > vrt - bp1d3bxtdv  68tfd7gfjk  d </
  OppositeRo  uterId >
    < OppositeIn  terfaceId > ri - bp12dxgw8g  moma1h506q  f </
  OppositeIn  terfaceId >
    < VpcInstanc  eId > vpc - 2ze3tq4uxh  ysg717x7o4  d </
  VpcInstanc  eId >
    < RouterId > vrt - 2zeazning6  tbzkm5c0jj  2 </ RouterId >
    < ConnectedT  ime > 2017 - 12 - 27T06 : 31 : 36Z </ ConnectedT
  ime >
    < OppositeRe  gionId > cn - hangzhou </ OppositeRe  gionId >
    < BusinessSt  atus > Normal </ BusinessSt  atus >
    < Role > Initiating  Side </ Role >
    < OppositeVp  cInstanceI  d > vpc - bp15k6sx6f  hdz2jw4daz  0 </
  OppositeVp  cInstanceI  d >
    < EndTime > 2018 - 10 - 27T16 : 00 : 00Z </ EndTime >
   </ RouterInte  rfaceType >
  </ RouterInte  rfaceSet >
 < DescribeRo  uterInterf  acesRespon  se >
```

- **JSON format**

```
{
 " PageNumber ": 1 ,
 " TotalCount ": 2 ,
 " PageSize ": 10 ,
 " RequestId ":" 01818199 - 04F6 - 47F4 - 9ADF - 7CC824CF57  A4 ",
 " RouterInte  rfaceSet ":{
  " RouterInte  rfaceType ":[
   {
    " ChargeType ":" Prepaid ",
    " HasReserva  tionData ": false ,
    " OppositeIn  terfaceBus  inessStatu  s ":" Normal ",
    " RouterInte  rfaceId ":" ri - 2zenfgfpyu  3v93koa4sf  o ",
    " OppositeIn  terfaceSta  tus ":" Deleted ",
    " Spec ":" Small . 5 ",
    " OppositeIn  terfaceOwn  erId ":" 1231579085  529123 ",
    " CrossBorde  r ": false ,
    " OppositeIn  terfaceSpe  c ":" Negative ",
    " CreationTi  me ":" 2017 - 12 - 27T06 : 34 : 30Z ",
    " RouterType ":" VRouter ",
    " Status ":" Inactive ",
    " OppositeRo  uterId ":" vrt - bp1el837xk  kakub7ci0t  j ",
    " OppositeRo  uterType ":" VRouter ",
    " OppositeIn  terfaceId ":" ri - bp1itx13bw  e6f2wfh3qp  j ",
    " ConnectedT  ime ":" 2017 - 12 - 27T06 : 34 : 37Z ",
    " RouterId ":" vrt - 2zeazning6  tbzkm5c0jj  2 ",
```

```
    " VpcInstanc  eId ":" vpc - 2ze3tq4uxh  ysg717x7o4  d ",
    " BusinessSt  atus ":" Normal ",
    " OppositeRe  gionId ":" cn - hangzhou ",
    " Role ":" Initiating  Side ",
    " EndTime ":" 2018 - 01 - 27T16 : 00 : 00Z ",
    " OppositeVp  cInstanceI  d ":" vpc - bp1iq3579f  26c3gpkj92  e
 "
   },
   {
    " ChargeType ":" Prepaid ",
    " HasReserva  tionData ": false ,
    " OppositeIn  terfaceBus  inessStatu  s ":" Normal ",
    " RouterInte  rfaceId ":" ri - 2zegbp7nhj  0mnwm6irnu  o ",
    " OppositeIn  terfaceSta  tus ":" Deleted ",
    " Spec ":" Small . 1 ",
    " OppositeIn  terfaceOwn  erId ":" 1231579085  529123 ",
    " CrossBorde  r ": false ,
    " OppositeIn  terfaceSpe  c ":" Negative ",
    " CreationTi  me ":" 2017 - 12 - 27T06 : 31 : 30Z ",
    " RouterType ":" VRouter ",
    " Status ":" Inactive ",
    " OppositeRo  uterId ":" vrt - bp1d3bxtdv  68tfd7gfjk  d ",
    " OppositeRo  uterType ":" VRouter ",
    " OppositeIn  terfaceId ":" ri - bp12dxgw8g  moma1h506q  f ",
    " ConnectedT  ime ":" 2017 - 12 - 27T06 : 31 : 36Z ",
    " RouterId ":" vrt - 2zeazning6  tbzkm5c0jj  2 ",
    " VpcInstanc  eId ":" vpc - 2ze3tq4uxh  ysg717x7o4  d ",
    " BusinessSt  atus ":" Normal ",
    " OppositeRe  gionId ":" cn - hangzhou ",
    " Role ":" Initiating  Side ",
    " EndTime ":" 2018 - 10 - 27T16 : 00 : 00Z ",
    " OppositeVp  cInstanceI  d ":" vpc - bp15k6sx6f  hdz2jw4daz  0
 "
   }
  ]
 }
}
```


Error codes

HTTP status code	Error code	Error message	Description
404	InvalidFilterKey.ValueNotSupported	Specified filter key is not supported: Filter.X.key	The specified filter key is not supported.
400	InvalidParam.NotNull	The parameter must not be null.	The parameter cannot be null.

See common error codes

11.3 ConnectRouterInterface

Connects the initiator router interface to the acceptor router interface.

After you call this action, the router interface status changes to Connecting. After the connection is established, the router interface status changes to Active.

Note the following before you call this action:

- Only an initiator router interface in the Idle state can initiate a connection.
- Up to one pair of interconnected router interfaces can be created between any two routers.
- If there is an overdue router interface under the account, you cannot initiate a connection.

Debug

By using API Explorer, you can easily debug APIs, automatically generate SDK code examples, and quickly search for APIs.

Request parameters

Parameter	Type	Required?	Example value	Description
`Action`	String	Yes	ConnectRouterInterface	The name of this action. Value: `ConnectRouterInterface`
`RegionId`	String	Yes	cn-hangzhou	The region where the router interface is located. To query the region ID, call `DescribeRegions`.
`RouterInterfaceId`	String	Yes	ri-2zeo3xzyf38r4urzdpvfs	The ID of initiator router interface.

Response parameters

Parameter	Type	Example value	Description
RequestId	String	DE77A7F3-3B74-41C0-A5BC-CAFD188C28B6	The ID of the request.

Examples

Request example

```
http ( s ):// vpc . aliyuncs . com /? Action = ConnectRou
terInterfa  ce
& RegionId =  cn - hangzhou
& RouterInte  rfaceId = ri - 2zeo3xzyf3  8r4urzdpvf  s
&< CommonPara  meters >
```

Response example

- XML format

```
< ConnectRou  terInterfa  ceResponse >
  < RequestId > 0ED8D006 - F706 - 4D23 - 88ED - E11ED28DCA  C0 </
 RequestId >
</ ConnectRou  terInterfa  ceResponse >
```

- JSON format

```
{
 " RequestId ":" 0ED8D006 - F706 - 4D23 - 88ED - E11ED28DCA  C0 "
}
```

Error codes

HTTP status code	Error code	Error message	Description
404	InvalidRouterInterfaceId.NotFound	The specified RouterInterfaceId does not exist in our record.	The specified router interface does not exist.

HTTP status code	Error code	Error message	Description
400	IncorrectRole.NotInitiatingSide	The specified RouterInterface is not InitiatingSide.	This router interface is not the initiator router interface. Select the initiator router interface to initiate a connection.
400	Forbidden.OnlyOneConnection	The Specified routers have a connection already	A peering connection already exists between the routers.
400	Forbidden.OnlyOneConnection	Cannot connect concurrently between same routers	You cannot initiate another connection between the same routers.
400	Forbidden.BillsOutstanding	You cannot use this action because you have bills outstanding.	You cannot continue with this operation because you have overdue payments.

See common error codes

11.4 ActivateRouterInterface

Activates a router interface in the Inactive state.

After you call this action, the router interface changes to the Activating state. Next, after activation is completed, the router interface changes to the Active state.

> Note:
> An overdue interface cannot be activated.

Debug

By using API Explorer, you can easily debug APIs, automatically generate SDK code examples, and quickly search for APIs.

Request parameters

Parameter	Type	Required?	Example value	Description
`Action`	String	Yes	ActivateRouterInterface	The name of this action. Value: `ActivateRouterInterface`
`RegionId`	String	Yes	cn-hangzhou	The ID of the region to which the router interface to be activated belongs. To query the region ID, call `DescribeRegions`.
`RouterInterfaceId`	String	Yes	ri-2zeo3xzyf38r4urzdpvfs	The ID of the router interface to be activated.

Response parameters

Parameters	Type	Example value	Description
`RequestId`	String	079874CD-AEC1-43E6-AC03-ADD96B6E4907	The ID of the request.

Examples

Request example

```
http(s)://vpc.aliyuncs.com/?Action=ActivateRouterInterface
&RegionId=cn-hangzhou
&RouterInterfaceId=ri-2zeo3xzyf38r4urzdpvfs
&<CommonParameters>
```

Response example

- XML format

```
<ActivateRouterInterfaceResponse>
```

```
  < RequestId > 0ED8D006 - F706 - 4D23 - 88ED - E11ED28DCA  C0 </
 RequestId >
</ ActivateRo  uterInterf  aceRespons  e >
```

- JSON format

```
{
 " RequestId ":" 0ED8D006 - F706 - 4D23 - 88ED - E11ED28DCA  C0 "
}
```

Error codes

HTTP status code	Error code	Error message	Description
404	InvalidRegionId.NotFound	The specified RegionId does not exist in our records.	The specified region ID does not exist.
404	InvalidRouterInterfaceId.NotFound	The specified RouterInterfaceId does not exist in our records.	The specified router interface does not exist.
400	IncorrectStatus	RouterInterface can be operated by this action only when it's status is Inactive.	This operation requires that the router interface is in the Inactive status.
400	Forbidden.FinancileLocked	This RouterInterface is financiel locked because of bills outstanding.	The router interface is locked due to an insufficient account balance.
400	Forbbiden	The Router instance owener error	This router does not belong to your account.

See common error codes

11.5 DeactivateRouterInterface

Deactivates a router interface.

After you call this action, the router interface changes to the Deactivating state. After deactivation is completed, the router interface changes to the Inactive state.

Note:
A router interface under an account with an insufficient balance cannot be deactivated.

Debug

By using API Explorer, you can easily debug APIs, automatically generate SDK code examples, and quickly search for APIs.

Request parameters

Parameter	Type	Required?	Example value	Description
`Action`	String	Yes	DeactivateRouterInterface	The name of this action. Value: `DeactivateRouterInterface`
`RegionId`	String	Yes	cn-hangzhou	The ID of the region to which the router interface to be deactivated belongs. To query the region ID, call `DescribeRegions`.
`RouterInterfaceId`	String	Yes	ri-2zeo3xzyf38r4urzdpvfs	The ID of the router interface.

Response parameters

Parameter	Type	Example value	Description
`RequestId`	String	BE7EB53A-99AB-4DA8-AEDE-75FA90D046A6	The ID of the request.

Examples

Request example

```
http(s)://vpc.aliyuncs.com/?Action=DeactivateRouterInterface
&RegionId=cn-hangzhou
&RouterInterfaceId=ri-2zeo3xzyf38r4urzdpvfs
```

```
&< CommonPara  meters >
```

Response example

- XML format

```
< ActivateRo  uterInterf  aceRespons  e >
  < RequestId > 0ED8D006 - F706 - 4D23 - 88ED - E11ED28DCA  C0 </
 RequestId >
</ ActivateRo  uterInterf  aceRespons  e >
```

- JSON format

```
{
 " RequestId ":" 0ED8D006 - F706 - 4D23 - 88ED - E11ED28DCA  C0 "
}
```

Error codes

HTTP status code	Error code	Error message	Description
404	InvalidRouterInterfaceId.NotFound	The specified RouterInterfaceId does not exist in our record.	The specified router interface does not exist.
400	IncorrectStatus	RouterInterface can be operated by this action only when it's status is Active.	You can perform this action only if the router interface is in the Active state.
400	Forbidden.FinancileLocked	This RouterInterface is financiel locked because of bills outstanding.	The router interface is locked because your bill is overdue.

See common error codes

11.6 ModifyRouterInterfaceSpec

Modifies the specification of a router interface.

After you call this action, the router interface status changes to Activating. Next, after the activation is completed, the router interface status changes to Active.

Note:
The specification for a router interface under an account with an insufficient balance cannot modified.

Debug

By using API Explorer, you can easily debug APIs, automatically generate SDK code examples, and quickly search for APIs.

Request parameters

Parameter	Type	Required?	Example value	Description
`Action`	String	Yes	ModifyRouterInterfaceSpec	The name of this action. Value: `ModifyRouterInterfaceSpec`
`RegionId`	String	Yes	cn-hangzhou	The ID of the region to which the router interface belongs. To query the region ID, call `DescribeRegions`.
`RouterInterfaceId`	String	Yes	ri-2zeo3xzyf38r4urzdpvfs	The ID of the router interface.
`Spec`	String	Yes	Large	The specification of the router interface.
`ClientToken`	String	No	02fb3da4-130e-11e9-8e44-0016e04115b	A client token used to guarantee the idempotence of requests. This parameter value is generated by the client and must be unique. It must be 1 to 64 ASCII characters in length.

Response parameters

Parameter	Type	Example value	Description
`RequestId`	String	4EC47282-1B74-4534-BD0E-403F3EE64CAF	The ID of the request.

Parameter	Type	Example value	Description
Spec	String	Small.1	The specification of the router interface.

Examples

Request example

```
http ( s ):// vpc . aliyuncs . com /? Action = ModifyRout
erInterfac  eSpec
& RegionId = cn - hangzhou
& RouterInte  rfaceId = ri - 2zeo3xzyf3  8r4urzdpvf  s
& Spec = Large
&< CommonPara  meters >
```

Response example

- XML format

```
< ModifyRout  erInterfac  eSpecRespo  nse >
  < RequestId > 0ED8D006 - F706 - 4D23 - 88ED - E11ED28DCA  C0 </
 RequestId >
  < Spec > Middle . 2 </ Spec >
</ ModifyRout  erInterfac  eSpecRespo  nse >
```

- JSON format

```
{
 " Spec ":" Middle . 2 ",
 " RequestId ":" 0ED8D006 - F706 - 4D23 - 88ED - E11ED28DCA  C0 "
}
```

Error codes

HTTP status code	Error code	Error message	Description
400	InvalidSpec .ValudNotSu pported	The specified Spec is not supported.	The specified specification is not supported.
404	InvalidRou terInterfaceId. NotFound	The specified RouterInte rfaceId does not exist in our record.	The specified router interface does not exist.
400	InvalidIns tanceOwner. Error	The router instance owener error.	The router does not belong to your account.

HTTP status code	Error code	Error message	Description
400	InvalidInstance.StatusError	The router instance owener error.	The status of the router interface is invalid.

See common error codes

11.7 ModifyRouterInterfaceAttribute

Modifies the configurations of a router interface.

Debug

By using API Explorer, you can easily debug APIs, automatically generate SDK code examples, and quickly search for APIs.

Request parameters

Parameter	Type	Required?	Example value	Description
`Action`	String	Yes	ModifyRouterInterfaceAttribute	The name of this action. Value: `ModifyRouterInterfaceAttribute`
`RegionId`	String	Yes	cn-shanghai	The ID of the region to which the router interface belongs. To query the region ID, call `DescribeRegions`.
`RouterInterfaceId`	String	Yes	ri-2zeo3xzyf38r4urzdpvfs	The ID of the router interface.

Parameter	Type	Required?	Example value	Description
`DeleteHealthCheckIp`	Boolean	No	true	Indicates whether to delete the health check IP address configured on the router interface. Valid values: · `true` : Delete the health check IP. · `false` (default value): Do not delete the health check IP.
`Description`	String	No	Router inteface 1	The description of the router interface. The description must be 2 to 256 characters in length. The description must start with a letter and cannot start with `http://` or `https://`.
`HealthCheckSourceIp`	String	No	116.62.222.28	The source IP address used to perform health check on the physical connection. It must be an unused IP address of the local VPC. Note: You can specify this parameter in the scenario of physical access.
`HealthCheckTargetIp`	String	No	116.62.222.28	The destination IP address of health check. Note: This parameter is required when the `HealthCheckSourceIp` parameter is specified.

Parameter	Type	Required?	Example value	Description
`Name`	String	No	TEST	The name of the router interface. The name must be 2 to 128 characters in length. It can contain letters, numbers, periods (.), underscores (_), and hyphens (-). The name must start with a letter and cannot start with `http://` or `https://`.
`OppositeInterfaceId`	String	No	ri-2zeo3xzyf38r4urzdpvfs	The ID of the peer router interface.
`OppositeInterfaceOwnerId`	String	No	10	The ID of the owner of the peer router interface.
`OppositeRouterId`	String	No	vrt-bp1jcg5cmxjbl9xgc58bw	The ID of the peer router.
`OppositeRouterType`	String	No	VRouter	The type of the router to which the peer router interface belongs. The default value is `VBR`. Valid values: `VRouter | VBR`

Response parameters

Parameter	Type	Example value	Description
`RequestId`	String	4EC47282-1B74-4534-BD0E-403F3EE64CAF	The ID of the request.

Examples

Request example

```
 http ( s ):// vpc . aliyuncs . com /? Action = ModifyRout
 erInterfac  eAttribute
& RegionId = cn - shanghai
& RouterInte  rfaceId = ri - 2zeo3xzyf3  8r4urzdpvf  s
&< CommonPara  meters >
```

Response example

- XML format

```
< ModifyRout  erInterfac  eAttribute  Response >
  < RequestId > 980960B0 - 2969 - 40BF - 8542 - EBB34FD358  AB </
 RequestId >
</ ModifyRout  erInterfac  eAttribute  Response >
```

- JSON format

```
{
 " RequestId ":" 980960B0 - 2969 - 40BF - 8542 - EBB34FD358  AB "
}
```

Error codes

HTTP status code	Error code	Error message	Description
404	InvalidRegionId.NotFound	The specified RegionId does not exist in our records.	The specified region ID does not exist.
404	InvalidRouterInterfaceId.NotFound	The specified RouterInterfaceId does not exist in our records.	The specified router interface does not exist.
400	Forbidden.FinancileLocked	This RouterInterface is financiel locked because of bills outstanding.	The router interface is locked due to an insufficient account balance.
400	InvalidName.Malformd	The attribute name is illeagl.	The name format is invalid.
400	InvalidOppositeRouterType.ValueNotSupported	The specified OppositeRouterType is not valid.	The value of the OppositeRouterType parameter is invalid.

HTTP status code	Error code	Error message	Description
400	InvalidDescription.Malformed	The Description is illeagl.	The format of the resource description is invalid. The description must be 2 to 256 characters in length, and it cannot start with http:// and https://.
400	Forbbiden	The Router instance owener error	The specified router is not under your account.
400	LinkRole.NotSupport	This linkrole is not supported	This link is not supported.
400	InvalidParam.ModifyRouterInterface	Modify routerinterface param invalide	The entered parameter is invalid.

See common error codes

11.8 DeleteRouterInterface

Deletes a router interface.

Note the following before you delete a router interface:

- You can only delete a router interface in the Idle or Inactive state.
- Before deleting a router interface, you must delete all custom route entries pointing to it.

Debug

By using API Explorer, you can easily debug APIs, automatically generate SDK code examples, and quickly search for APIs.

Request parameters

Parameter	Type	Required?	Example value	Description
`Action`	String	Yes	DeleteRouterInterface	The name of this action. Value: `DeleteRouterInterface`
`RegionId`	String	Yes	cn-shanghai	The ID of the region to which the router interface belongs. To query the region ID, call `DescribeRegions`.
`RouterInterfaceId`	String	Yes	ri-2zeo3xzyf38r4urzdpvfs	The ID of the router interface.
`ClientToken`	String	No	qwefcc12123333334f	A client token used to guarantee the idempotence of requests. This parameter value is generated by the client and must be unique. It must be 1 to 64 ASCII characters in length.

Response parameters

Parameter	Type	Example value	Description
`RequestId`	String	4EC47282-1B74-4534-BD0E-403F3EE64CAF	The ID of the request.

Examples

Request example

```
http(s)://vpc.aliyuncs.com/?Action=DeleteRouterInterface
&RegionId=cn-shanghai
```

```
& RouterInte  rfaceId = ri - 2zeo3xzyf3  8r4urzdpvf  s
&< CommonPara  meters >
```

Response example

- XML format

```
< DeleteRout  erInterfac  eResponse >
  < RequestId > 0ED8D006 - F706 - 4D23 - 88ED - E11ED28DCA  C0 </
 RequestId >
</ DeleteRout  erInterfac  eResponse >
```

- JSON format

```
{
 " RequestId ":" 0ED8D006 - F706 - 4D23 - 88ED - E11ED28DCA  C0 "
}
```

Error codes

HTTP status code	Error code	Error message	Description
400	IncorrectStatus	This openeration would be allowed only when status of this RouterInterface is Idle/Inactive.	This operation cannot be performed because the router interface is not in the Idle or Inactive state.
400	DependencyViolation.RouterInterfaceReferedByRouteEntry	RouterInterface cannot be deleted when it is refered by a route table entry as next hop.	You cannot delete this router interface because a route entry is using it as the next hop. You need to delete the route entry before you can delete this router interface.
404	InvalidInstanceId.NotFound	The InstanceId provided does not exist in our records.	The specified ECS instance does not exist. That is, the instance is not under the VPC.
400	InvalidRouterInterfaceChargeType.Malformed	The prepaid routerinterface can not delete.	You cannot delete a Subscription router interface.

See common error codes

12 Border Gateway Protocol (BGP)

12.1 DescribeBgpNetworks

Query the advertised BGP networks.

Request parameters

Name	Type	Require	Description
Action	String	Yes	The action to perform. Valid value: DescribeBg pNetworks
RegionId	String	Yes	The region of the BGP network. You can obtain the region ID by calling the DescribeRegions API.
dstCidrBlock	String	No	The advertised BGP network.
routeId	String	No	The ID of the VBR.

Response parameters

Name	Type	Description
RequestId	String	The ID of the request.

Examples

Request example

```
https ://vpc . aliyuncs . com /? Action = DescribeBg pNetworks
& RegionId = cn - beijing
& CommonPara meters
```

Response example

- XML format

```
<? xml version =" 1 . 0 " encoding =" UTF - 8 "? >
< DescribeBg pNetworksR esponse >
< BgpNetwork s >
< BgpNetwork >
```

```
                        < DstCidrBlo  ck > 10 . 1 . 1 . 0 / 24 </
DstCidrBlo  ck >
                        < VpcId ></ VpcId >
                        </ BgpNetwork >
                        </ BgpNetwork  s >
                        < RequestId > 6F513A15 - 669F - 419D - B511
- 08A8529205  9B </ RequestId >
                        < PageSize > 10 </ PageSize >
                        < TotalCount > 1 </ TotalCount >
                        </ DescribeBg  pNetworksR  esponse >
```

- JSON format

```
 " BgpNetwork  s ": {
   " BgpNetwork ": [

       " DstCidrBlo  ck ": " 10 . 1 . 1 . 0 / 24 ",
       " VpcId ": ""



 " RequestId ": " 6F513A15 - 669F - 419D - B511 - 08A8529205  9B ",
 " PageSize ":  10 ,
 " TotalCount ":  1
```

12.2 CreateBgpGroup

Creates a BGP group.

You can use BGP to establish the communication between the Virtual Border Router (VBR) and the on-premises IDC. To use BGP, add the BGP peer communicating with the VBR to the corresponding BGP group and advertise the BGP network in the VBR.

A BGP group is used for simplifying BGP configurations. You can combine repetitive configurations into a BGP group to reduce the configuration complexity. Each BGP group is associated with an autonomous system number (ASN).

Note the following before you call this action:

- The supported BGP version is 4 (BGP4).
- IPv4 BGP is supported, but IPv6 BGP is not supported.

Debug

By using API Explorer, you can easily debug APIs, automatically generate SDK code examples, and quickly search for APIs.

Request parameters

Parameter	Type	Required?	Example value	Description
`Action`	String	Yes	CreateBgpGroup	The name of this action. Value: `CreateBgpGroup`
`PeerASN`	String	Yes	1111	The ASN of the BGP peer.
`RegionId`	String	Yes	cn-shanghai	The region to which the BGP group belongs. To query the region ID, call `DescribeRegions`.
`RouterId`	String	No	vrt-bp1lhl0taikrteen80oxx	The ID of the VBR.
`Authkey`	String	No	!PWZ2wsq	The authentication key of the BGP group.
`ClientToken`	String	No	02fb3da4-130e-11e9-8e44-0016e04115b	The client token that guarantees the idempotence of the request. This parameter value is generated by the client and must be unique. It must be 1 to 64 ASCII characters in length.
`Description`	String	No	BGP	The description of the BGP group. The description must be 2 to 256 characters in length. It must start with a letter, but cannot start with `http://` or `https://`.

Parameter	Type	Required?	Example value	Description
`IsFakeAsn`	Boolean	No	true	Indicates whether the ASN is the correct ASN. A router running BGP can only belong to one AS in general. However, in such cases as where an AS needs to be migrated or merged with other ASs, a new ASN must be used.
`Name`	String	No	test	The name of the BGP group. The name must be 2 to 128 characters in length and can contain letters, numbers, periods (.), underscores (_), and hyphens (-). The name must start with a letter. It cannot start with `http://` or `https://`.

Response parameters

Parameter	Type	Example value	Description
`BgpGroupId`	String	bgpg-2zendnzngq9lkjkhvlrsr	The ID of the BGP group.
`RequestId`	String	C1221A1F-2ACD-4592-8F27-474E02883159	The ID of the request.

Examples

Request example

```
https://vpc.aliyuncs.com/?Action=CreateBgpGroup
&PeerAsn=1111
&RegionId=cn-shanghai
```

```
& RouterId = vrt - bp1lhl0tai  krteen80ox  x
&< CommonPara  meters >
```

Response example

- **XML format**

```
< CreateBgpG  roupRespon  se >
  < BgpGroupId > bgpg - 2zendnzngq  9lkjkhvlrs  r </ BgpGroupId >
  < RequestId > C1221A1F - 2ACD - 4592 - 8F27 - 474E028831  59 </
 RequestId >
</ CreateBgpG  roupRespon  se >
```

- **JSON format**

```
{
 " BgpGroupId ":" bgpg - 2zendnzngq  9lkjkhvlrs  r ",
 " RequestId ":" C1221A1F - 2ACD - 4592 - 8F27 - 474E028831  59 "
}
```

Error codes

HTTP status code	Error code	Error message	Description
400	QuotaExceeded.Bgp	bgp peer count per vbr quota exceed.	The BGP group quota of the VBR has been reached.
400	QuotaExceeded.Nqa	nqa count per vbr quota exceed.	The NQA quota of the VBR has been reached.
400	QuotaExceeded.BgpNetwork	bgp network count per vbr quota exceed.	The BGP network quota of the VBR has been reached.
400	InvalidPeerIpAddress	multi pconn peer ip can not be null.	The peer IP address of multiple physical connections cannot be null.
400	InvalidVbrNetwork	vbr netowrk not exists	The specified VBR does not exist.
400	InvalidBgpName.Malformed	Specified Bgp Group name is not valid.	The name of the BGP group is invalid.
400	InvalidBgpDescription.Malformed	Specified Bgp Group description is not valid.	The description of the BGP group is invalid.
400	InvalidBgpAuthkey.Malformed	Specified Bgp Group authkey is not valid.	The authentication key of the BGP group is invalid.

HTTP status code	Error code	Error message	Description
404	InvalidRegionId.NotFound	The specified RegionId is not found.	The specified region ID does not exist.
400	InvalidIP.Malformed	Ip malformed.	The IP address format is invalid.
400	InvalidPeerAsn.Malformed	invalid peer asn cannot equals aliyun asn:45104	The specified ASN cannot be the same as the Alibaba Cloud ASN.
400	InvalidParams.NotNull	invalid peer asn cannot equals aliyun asn:45104	The specified ASN cannot be the same as the Alibaba Cloud ASN.
400	InvalidParams.NotFound	vpc instance not found	The specified VPC does not exist.
400	InvalidParams.AlreadyExists	bgp network already exists	The specified BGP network already exists.
400	InvalidStatus.CannotOperate	invalid status cannot operate	You cannot perform this operation because the status of the resource does not permit this action.

See common error codes

12.3 DescribeBgpGroups

Queries BGP groups.

Debug

By using API Explorer, you can easily debug APIs, automatically generate SDK code examples, and quickly search for APIs.

Request parameters

Parameter	Type	Required?	Example value	Description
`Action`	String	Yes	DescribeBgpGroupsDescribeBgpGroups	The name of this action. Value: `DescribeBgpGroups`
`RegionId`	String	Yes	cn-shanghai	The region to which the BGP group belongs. To query the region ID, call `DescribeRegions`.
`BgpGroupId`	String	No	bgpg-wz9f62v4fbg2gxxxxxxxx	The ID of the BGP group.
`IsDefault`	Boolean	No	false	Indicates whether the specified BGP group is the default BGP group.
`OwnerAccount`	String	No	1234abcd@aliyun.com	The owner account.
`PageNumber`	Integer	No	1	The number of pages to return. Default value: `1`.
`PageSize`	Integer	No	1	The number of rows per page. Maximum value: `50`. Default value: `10`.
`RouterId`	String	No	vrt-kojok19x3j0q6kx	The ID of the VBR associated with the BGP group.

Response parameters

Parameter	Type	Example value	Description
TotalCount	Integer	10	The number of queried entries.

Parameter	Type	Example value	Description
PageNumber	Integer	1	The current page number.
PageSize	Integer	5	The number of entries per page.
BgpGroups			A list of BGP groups.
└AuthKey	String	!PWZ2wsq	The authentication key used by the BGP group.
└BgpGroupId	String	bgp-wz977wcrmb69axxxxxxxx	The ID of the BGP group.
└Description	String	The	The description of the BGP group.
└Hold	String	30	The hold time to wait for the BGP message. If no BGP message is received when the hold time is reached, the BGP peer is disconnected.
└IsFake	String	true	Indicates whether the ASN is fake.
└Keepalive	String	10	The keep-alive time.
└LocalAsn	String	45104	The local ASN.
└Name	String	BGPName	The name of the BGP group.
└PeerAsn	String	1111	The ASN of the BGP peer.
└RegionId	String	cn-shanghai	The region ID of the BGP group. For more information, see Regions and zones.
└RouteLimit	String	99	The route quota.
└RouterId	String	vrt-bp1lhl0taikrteen80oxx	The ID of the VBR.

Parameter	Type	Example value	Description
└Status	String	active	The status of the BGP peer.
RequestId	String	1D0971B2-A35A-42C1-A44C-E91360C36C0B	The ID of the request.

Examples

Request example

```
 https :// vpc . aliyuncs . com /? Action = DescribeBg  pGroups
& RegionId = cn - shanghai
&< CommonPara  meters >
```

Response example

- XML format

```
< DescribeBg  pGroupsRes  ponse >
  < TotalCount > 1 </ TotalCount >
  < PageSize > 10 </ PageSize >
  < RequestId > 09E2C0FD - 37FF - 4737 - 80DF - 517AC36D43  DB </
 RequestId >
  < BgpGroups >
    < BgpGroup >
      < BgpGroupId > bgpg - 2zev8h2wo4  14sfhjgdlh  h </ BgpGroupId
 >
      < LocalAsn > 45104 </ LocalAsn >
      < Hold > 30 </ Hold >
      < Descriptio  n />
      < AuthKey />
      < IsFake > true </ IsFake >
      < PeerAsn > 234 </ PeerAsn >
      < Keepalive > 10 </ Keepalive >
      < RouteLimit > 99 </ RouteLimit >
      < Name > Group1 </ Name >
      < Status > Pending </ Status >
      < RouterId > vbr - 2zecmmvg5g  vu8i4telkh  w </ RouterId >
      < RegionId > cn - beijing </ RegionId >
    </ BgpGroup >
  </ BgpGroups >
</ DescribeBg  pGroupsRes  ponse >
```

- JSON format

```
{
 " TotalCount ": 1 ,
 " PageSize ": 10 ,
 " RequestId ":" 09E2C0FD - 37FF - 4737 - 80DF - 517AC36D43  DB ",
 " BgpGroups ":{
  " BgpGroup ":[
   {
    " BgpGroupId ":" bgpg - 2zev8h2wo4  14sfhjgdlh  h ",
    " LocalAsn ": 45104 ,
```

```
      " Hold ": 30 ,
      " Descriptio  n ":"",
      " AuthKey ":"",
      " IsFake ": true ,
      " PeerAsn ": 234 ,
      " Keepalive ": 10 ,
      " RouteLimit ": 99 ,
      " Name ":" Group1 ",
      " Status ":" Pending ",
      " RouterId ":" vbr - 2zecmmvg5g  vu8i4telkh  w ",
      " RegionId ":" cn - beijing "
    }
  ]
 }
}
```

Error codes

HTTP status code	Error code	Error message	Description
500	InternalError	The request processing has failed due to some unknown error.	An error occurred while the request was being processed.
404	InvalidRegionId.NotFound	The specified RegionId does not exist in our records.	The specified region ID does not exist.

See common error codes

12.4 ModifyBgpGroupAttribute

Modifies the configurations of a BGP group.

Debug

By using API Explorer, you can easily debug APIs, automatically generate SDK code examples, and quickly search for APIs.

Request parameters

Parameter	Type	Required?	Example value	Description
`Action`	String	Yes	ModifyBgpGroupAttribute	The name of this action. Value: `ModifyBgpGroupAttribute`

Parameter	Type	Required?	Example value	Description
`BgpGroupId`	String	Yes	bgpg-wz9f62v4fbg2gxxxxxxxx	The ID of the BGP group.
`RegionId`	String	Yes	cn-shanghai	The region to which the BGP group belongs. To query the region ID, call `DescribeRegions`.
`AuthKey`	String	No	!PWZ2wsq	The authentication key of the BGP group.
`ClientToken`	String	No	02fb3da4-130e-11e9-8e44-0016e04115b	A client token used to guarantee the idempotence of requests. This parameter value is generated by the client and must be unique. It must be 1 to 64 ASCII characters in length.
`Description`	String	No	BGP	The description of the BGP group. The description must be 2 to 256 characters in length. It must start with a letter, but cannot start with `http://` or `https://`.

Parameter	Type	Required?	Example value	Description
IsFakeAsn	Boolean	No	true	Indicates whether the ASN is the correct ASN. A router running BGP can only belong to one AS in general. However, in such cases as where an AS needs to be migrated or merged with other ASs, a new ASN must be used.
Name	String	No	test	The name of the BGP group. The name must be 2 to 128 characters in length and can contain letters, numbers, periods (.), underscores (_), and hyphens (-). The name must start with a letter. It cannot start with `http://` or `https://`.
PeerASN	String	No	1111	The ASN of the BGP peer.

Request parameters

Parameter	Type	Example value	Description
RequestId	String	8C3C6D7C-A1CE-4FD8-BC57-DC493A55F76F	The ID of the request.

Examples

Request example

```
https://vpc.aliyuncs.com/?Action=ModifyBgpGroupAttribute
&BgpGroupId=bgpg-wz9f62v4fbg2gxxxxxxx
&RegionId=cn-shanghai
```

```
&< CommonPara  meters >
```

Response example

- XML format

```
< ModifyBgpG  roupAttrib  uteRespons  e >
  < RequestId > C1221A1F - 2ACD - 4592 - 8F27 - 474E028831  59 </
 RequestId >
</ ModifyBgpG  roupAttrib  uteRespons  e >
```

- JSON format

```
  " RequestId ": " C1221A1F - 2ACD - 4592 - 8F27 - 474E028831  59 "
```

Error codes

HTTP status code	Error code	Error message	Description
404	InvalidRegionId.NotFound	Specified value of "regionId" is not supported.	The specified region ID does not exist.
400	QuotaExceeded.Bgp	bgp peer count per vbr quota exceed.	The BGP group quota of the VBR has been reached.
400	QuotaExceeded.Nqa	nqa count per vbr quota exceed.	The NQA quota of the VBR has been reached.
400	QuotaExceeded.BgpNetwork	bgp network count per vbr quota exceed.	The BGP network quota of the VBR has been reached.
400	InvalidPeerIpAddress	multi pconn peer ip can not be null.	The peer IP address of multiple physical connections cannot be null.
400	InvalidVbrNetwork	vbr netowrk not exists	The specified VBR does not exist.
400	InvalidBgpGroup	bgp group not exists	The specified BGP group does not exist.
400	InvalidBgpName.Malformed	Specified Bgp Group name is not valid.	The name of the BGP group is invalid.
400	InvalidBgpDiscription.Malformed	Specified Bgp Group description is not valid.	The description of the BGP group is invalid.

HTTP status code	Error code	Error message	Description
400	InvalidBgp Authkey. Malformed	Specified Bgp Group authkey is not valid.	The authentication key of the BGP group is invalid.
400	InvalidIP. Malformed	Ip malformed.	The IP address format is invalid.
400	InvalidPeerAsn. Malformed	invalid peer asn cannot equals aliyun asn:45104	The specified ASN cannot be the same as the Alibaba Cloud ASN.
400	InvalidParams. NotNull	invalid peer asn cannot equals aliyun asn:45104	The specified ASN cannot be the same as the Alibaba Cloud ASN.
400	InvalidParams. NotFound	vpc instance not found	The specified VPC does not exist.
400	InvalidParams. AlreadyExists	bgp network already exists	The specified BGP network already exists.
400	InvalidStatus. CannotOperate	invalid status cannot operate	The status of the resource does not permit this action.

See common error codes

12.5 DeleteBgpGroup

Deletes a BGP group.

Debug

By using API Explorer, you can easily debug APIs, automatically generate SDK code examples, and quickly search for APIs.

Request parameters

Parameter	Type	Required?	Example value	Description
`Action`	String	Yes	DeleteBgpGroup	The name of this action. Value: `DeleteBgpGroup`

Parameter	Type	Required?	Example value	Description
BgpGroupId	String	Yes	bgpg-wz9f62v4fbg2gxxxxxxxx	The ID of the BGP group.
RegionId	String	Yes	cn-shanghai	The region to which the BGP group belongs. To query the region ID, call DescribeRegions.
ClientToken	String	No	02fb3da4-130e-11e9-8e44-0016e04115b	The client token that guarantees the idempotence of the request. This parameter value is generated by the client and must be unique. It must be 1 to 64 ASCII characters in length.

Response parameters

Parameter	Type	Example value	Description
RequestId	String	97E2E97F-968C-48AF-A310-AC4D068854DB	The ID of the request.

Examples

Request example

```
 https :// vpc . aliyuncs . com /? Action = DeleteBgpG  roup
& BgpGroupId = bgpg - wz9f62v4fb  g2gxxxxxxx  x
& RegionId = cn - shanghai
&< CommonPara  meters >
```

Response example

- XML format

```
< DeleteBgpG  roupRespon  se >
  < RequestId > 0ED8D006 - F706 - 4D23 - 88ED - E11ED28DCA  C0 </
 RequestId >
```

```
</ DeleteBgpG  roupRespon  se >
```

- JSON format

```
 {
 " RequestId ":" 0ED8D006 - F706 - 4D23 - 88ED - E11ED28DCA  C0 "
}
```

Error codes

HTTP status code	Error code	Error message	Description
404	InvalidRegionId.NotFound	Specified value of "regionId" is not supported.	The specified region ID does not exist.
400	QuotaExceeded.Bgp	bgp peer count per vbr quota exceed.	The BGP group quota of the VBR has been reached.
400	QuotaExceeded.Nqa	nqa count per vbr quota exceed.	The BGP group quota of the VBR has been reached.
400	QuotaExceeded.BgpNetwork	bgp network count per vbr quota exceed.	The BGP network quota of the VBR has been reached.
400	InvalidPeerIpAddress	multi pconn peer ip can not be null.	The peer IP address of multiple physical connections cannot be null.
400	InvalidVbrNetwork	vbr netowrk not exists	The specified VBR does not exist.
400	InvalidBgpGroup	bgp group not exists	The specified BGP group does not exist.
400	InvalidBgpName.Malformed	Specified Bgp Group name is not valid.	The name of the BGP group is invalid.
400	InvalidBgpDiscription.Malformed	Specified Bgp Group description is not valid.	The description of the BGP group is invalid.
400	InvalidBgpAuthkey.Malformed	Specified Bgp Group authkey is not valid.	The authentication key of the BGP group is invalid.
400	InvalidIP.Malformed	Ip malformed.	The IP address format is invalid.

HTTP status code	Error code	Error message	Description
400	InvalidPeerAsn.Malformed	invalid peer asn cannot equals aliyun asn:45104	The specified ASN cannot be the same as the Alibaba Cloud ASN.
400	InvalidParams.NotNull	invalid peer asn cannot equals aliyun asn:45104	The specified ASN cannot be the same as the Alibaba Cloud ASN.
400	InvalidParams.NotFound	vpc instance not found	The specified VPC does not exist.
400	InvalidParams.AlreadyExists	bgp network already exists	The specified BGP network already exists.
400	InvalidStatus.CannotOperate	invalid status cannot operate	The status of the resource does not permit this action.

See common error codes

12.6 CreateBgpPeer

Adds a BGP peer to a BGP group.

Debug

Use OpenAPI Explorer to perform debug operations and generate SDK code examples.

Request parameters

Parameter	Type	Required?	Example value	Description
`Action`	String	Yes	CreateBgpPeer	The name of this action. Value: CreateBgpPeer
`BgpGroupId`	String	Yes	bgpg-wz9f62v4fbgxxxxxxxx	The ID of the BGP group to which you want to add a BGP peer.

Parameter	Type	Required?	Example value	Description
RegionId	String	Yes	cn-shanghai	The region ID of the BGP group. To query the region ID, call DescribeRegions.
ClientToken	String	No	02fb3da4-130e-11e9-8e44-001xxxxxxxx	Optional. Guarantees the idempotence of the request. The value of this parameter is generated by the client. The value is unique among all requests and can contain a maximum of 64 ASCII characters.
EnableBfd	Boolean	No	true	Optional. Indicates whether to enable the BFD function. Valid values: · true: Enable the BFD function. · false: Do not enable the BFD function.
PeerIpAddress	String	No	116.62.xx.xx	Optional. The IP address of the BGP peer to be added.

Response parameters

Parameter	Type	Example value	Description
BgpPeerId	String	Bgp-awjhxxxxxxxx	The ID of the BGP peer.
RequestId	String	D4B7649A-61BB-4C64-A586-1DFF1EDA6A42	The ID of the request.

Examples

Request example

```
 https :// vpc . aliyuncs . com /? Action = CreateBgpP  eer
& BgpGroupId = bgpg - wz9f62v4fb  gxxxxxxxx
& RegionId = cn - shanghai
&< CommonPara  meters >
```

Response examples

`XML` format

```
< CreateBgpP  eerRespons  e >
  < RequestId > 0ED8D006 - F706 - 4D23 - 88ED - E11ED28DCA  C0 </
 RequestId >
</ CreateBgpP  eerRespons  e >
```

`JSON` format

```
{
 " RequestId ":" 0ED8D006 - F706 - 4D23 - 88ED - E11ED28DCA  C0 "
}
```

Error codes

HTTP status code	Error code	Error message	Description
404	InvalidRegionId.NotFound	Specified value of " regionId" is not supported .	The specified region ID is invalid. Please check if the cloud service is available in the specified region.
400	QuotaExceeded.Bgp	bgp peer count per vbr quota exceed.	The number of BGP groups in the VBR has reached the quota.
400	QuotaExceeded.Bgp	bgp group count per vbr quota exceed.	The number of BGP groups in the VBR has reached the quota.
400	QuotaExceeded.Nqa	nqa count per vbr quota exceed.	The number of NQA instances has reached the quota.
400	QuotaExceeded.BgpNetwork	bgp network count per vbr quota exceed.	The number of BGP networks of the VBR has reached the quota.

HTTP status code	Error code	Error message	Description
400	InvalidPeerIpAddress	multi pconn peer ip can not be null.	The peer IP address cannot be left blank in the case of multiple physical connections.
400	InvalidVbrNetwork	vbr netowrk not exists	The specified VBR does not exist.
400	InvalidBgpGroup	bgp group not exists	The specified BGP group does not exist.
400	InvalidBgpName.Malformed	Specified Bgp Group name is not valid.	The name of the BGP group is invalid.
400	InvalidBgpDiscription.Malformed	Specified Bgp Group description is not valid.	The description of the BGP group is invalid.
400	InvalidBgpAuthkey.Malformed	Specified Bgp Group authkey is not valid.	The authentication key of the BGP group is invalid.
400	InvalidIP.Malformed	Ip malformed.	The IP address format is invalid.
400	InvalidPeerAsn.Malformed	invalid peer asn cannot equals aliyun asn:45104	The specified ASN cannot be the same as the Alibaba Cloud ASN.
400	InvalidParams.NotNull	invalid peer asn cannot equals aliyun asn:45104	The specified ASN cannot be the same as the Alibaba Cloud ASN.
400	InvalidParams.NotFound	instance not found	The specified instance does not exist.
400	InvalidParams.NotFound	vpc instance not found	The specified VPC does not exist.
400	InvalidParams.AlreadyExists	bgp network already exists	The specified BGP network already exists.
400	InvalidStatus.CannotOperate	invalid status cannot operate	The status of the resource does not permit this operation.

See common error codes.

12.7 DescribeBgpPeers

Queries BGP peers in a region.

Debug

Use OpenAPI Explorer to perform debug operations and generate SDK code examples.

Request parameters

Parameter	Type	Required?	Example value	Description
`Action`	String	Yes	DescribeBgpPeers	The name of this action. Value: DescribeBgpPeers
`RegionId`	String	Yes	cn-shanghai	The ID of the region to which the BGP group belongs. To query the region ID, call DescribeRegions.
`BgpGroupId`	String	No	bgpg-2zev8h2wo414xxxxxxx	Optional. The ID of the BGP group.
`BgpPeerId`	String	No	bgp-2ze3un0ft1jd1xxxxxxxx	Optional. The ID of the BGP peer.
`IsDefault`	Boolean	No	false	Optional. Indicates whether the BGP group is the default BGP group.
`OwnerAccount`	String	No	xxx@aliyun.com	Optional. Your account.
`PageNumber`	Integer	No	1	Optional. The page number of the BGP peer list. Default value: 1

Parameter	Type	Required?	Example value	Description
`PageSize`	Integer	No	1	Optional. The number of rows per page for a paged query. Maximum value: 50. Default value: 10
`RouterId`	String	No	vrt-acfmxazxxxxxxxx	Optional. The ID of the VRouter.

Response parameters

Parameter	Type	Example value	Description
BgpPeers			A list of BGP peers.
└Name	String	test	The name of the BGP peer.
└PeerIpAddress	String	116.62.xx.xx	The IP address of the BGP peer.
└AuthKey	String	! PWZ2wsq	The authentication key of the BGP group.
└RouterId	String	vbr-2zecmmvg5gvu8xxxxxxxx	The ID of the VRouter.
└Status	String	active	The status of the BGP peer.
└BgpGroupId	String	bgp-wz977wcrmb69axxxxxxxx	The ID of the BGP group.
└BgpPeerId	String	bgp-wz977wcrmb69axxxxxxxx	The ID of the BGP peer.
└BgpStatus	String	Established	The BGP connection status.
└Description	String	xxxxxxxxx	The description of the BGP group.

Parameter	Type	Example value	Description
└EnableBfd	Boolean	true	Indicates whether to enable the BFD function. Valid values: · true: Enable the BFD function. · false: Do not enable the BFD function.
└Hold	String	30	The hold time.
└IsFake	String	true	Indicates whether a fake ASN is enabled.
└Keepalive	String	10	The keep-alive time.
└LocalAsn	String	45104	The local ASN.
└PeerAsn	String	active	The ASN of the BGP peer.
└RegionId	String	cn-shanghai	The ID of the region to which the BGP group belongs.
└RouteLimit	String	99	The route quota.
TotalCount	Integer	10	The number of queried entries.
PageNumber	Integer	1	The current page number.
PageSize	Integer	2	The number of entries per page.
RequestId	String	DE77A7F3-3B74-41C0-A5BC-CAFD188C28B6	The ID of the request.

Examples

Request example

```
 https :// vpc . aliyuncs . com /? Action = DescribeBg  pPeers
& RegionId = cn - shanghai
&< CommonPara  meters >
```

Response examples

`XML` format

```
< DescribeBg  pPeers >
  < TotalCount > 2 </ TotalCount >
  < PageSize > 10 </ PageSize >
  < RequestId > 16DFA5E6 - 9771 - 41B7 - B079 - DD7C2DF49B  E6 </
 RequestId >
  < BgpPeers >
    < BgpPeer >
      < BgpGroupId > bgpg - 2zev8h2wo4  14sxxxxxxx  x </ BgpGroupId >
      < LocalAsn > 45104 </ LocalAsn >
      < PeerIpAddr  ess > 11 . 11 . xx . xx </ PeerIpAddr  ess >
      < Hold > 30 </ Hold >
      < Descriptio  n />
      < AuthKey />
      < IsFake > true </ IsFake >
      < PeerAsn > 234 </ PeerAsn >
      < Keepalive > 10 </ Keepalive >
      < RouteLimit > 99 </ RouteLimit >
      < BgpPeerId > bgp - 2ze3un0ft1  jd1xxxxxxx  x </ BgpPeerId >
      < Name />
      < Status > Available </ Status >
      < BgpStatus />
      < RouterId > vbr - 2zecmmvg5g  vu8xxxxxxx  x </ RouterId >
      < RegionId > cn - beijing </ RegionId >
    </ BgpPeer >
    < BgpPeer >
      < BgpGroupId > bgpg - 2zev8h2wo4  14sxxxxxxx  x </ BgpGroupId >
      < LocalAsn > 45104 </ LocalAsn >
      < PeerIpAddr  ess > 11 . 11 . xx . xx </ PeerIpAddr  ess >
      < Hold > 30 </ Hold >
      < Descriptio  n />
      < AuthKey />
      < IsFake > true </ IsFake >
      < PeerAsn > 234 </ PeerAsn >
      < Keepalive > 10 </ Keepalive >
      < RouteLimit > 99 </ RouteLimit >
      < BgpPeerId > bgp - 2zeu54rbre  qqzxxxxxxx  x </ BgpPeerId >
      < Name />
      < Status > Available </ Status >
      < BgpStatus />
      < RouterId > vbr - 2zecmmvg5g  vu8xxxxxxx  x </ RouterId >
      < RegionId > cn - beijing </ RegionId >
    </ BgpPeer >
  </ BgpPeers >
</ DescribeBg  pPeers >
```

`JSON` format

```
{
 " TotalCount ": 2 ,
 " PageSize ": 10 ,
 " RequestId ":" 16DFA5E6 - 9771 - 41B7 - B079 - DD7C2DF49B  E6 ",
 " BgpPeers ":{
  " BgpPeer ":[
   {
    " BgpGroupId ":" bgpg - 2zev8h2wo4  14sxxxxxxx  x ",
    " LocalAsn ": 45104 ,
    " PeerIpAddr  ess ":" 11 . 11 . xx . xx ",
    " Hold ": 30 ,
    " Descriptio  n ":"",
    " AuthKey ":"",
```

```
      " IsFake ": true ,
      " PeerAsn ": 234 ,
      " Keepalive ": 10 ,
      " RouteLimit ": 99 ,
      " BgpPeerId ":" bgp - 2ze3un0ft1  jd1xxxxxxx  x ",
      " Name ":"",
      " Status ":" Available ",
      " BgpStatus ":"",
      " RouterId ":" vbr - 2zecmmvg5g  vu8xxxxxxx  x ",
      " RegionId ":" cn - beijing "
    },
    {
      " BgpGroupId ":" bgpg - 2zev8h2wo4  14sxxxxxxx  x ",
      " LocalAsn ": 45104 ,
      " PeerIpAddr  ess ":" 11 . 11 . xx . xx ",
      " Hold ": 30 ,
      " Descriptio  n ":"",
      " AuthKey ":"",
      " IsFake ": true ,
      " PeerAsn ": 234 ,
      " Keepalive ": 10 ,
      " RouteLimit ": 99 ,
      " BgpPeerId ":" bgp - 2zeu54rbre  qqzxxxxxxx  x ",
      " Name ":"",
      " Status ":" Available ",
      " BgpStatus ":"",
      " RouterId ":" vbr - 2zecmmvg5g  vu8xxxxxxx  x ",
      " RegionId ":" cn - beijing "
    }
  ]
 }
}
```


Error codes

HTTP status code	Error code	Error message	Description
500	InternalError	The request processing has failed due to some unknown error.	The request was not processed due to an unknown error.
404	InvalidRegionId.NotFound	The specified RegionId does not exist in our records.	The specified region ID is invalid. Please check if the cloud service is available in the specified region.

See common error codes.

12.8 DeleteBgpPeer

Deletes a BGP peer.

Debug

By using API Explorer, you can easily debug APIs, automatically generate SDK code examples, and quickly search for APIs.

Request parameters

Parameter	Type	Required?	Example value	Description
`Action`	String	Yes	DeleteBgpPeer	The name of this action. Value: `DeleteBgpPeer`
`BgpPeerId`	String	Yes	bgp-wz977wcrmb69axxxxxxxx	The ID of the BGP peer.
`RegionId`	String	Yes	cn-shanghai	The region to which the BGP group belongs. To query the region ID, call `DescribeRegions`.
`ClientToken`	String	No	02fb3da4-130e-11e9-8e44-0016e04115b	The client token that guarantees the idempotence of the request. This parameter value is generated by the client and must be unique. It must be 1 to 64 ASCII characters in length.

Response parameters

Parameter	Type	Example value	Description
`RequestId`	String	AEBB1EB6-3C15-4A35-B4CE-03485200C143	The ID of the request.

Examples

Request example

```
 https :// vpc . aliyuncs . com /? Action = DeleteBgpP  eer
& BgpPeerId = bgp - wz977wcrmb  69axxxxxxx  x
& RegionId = cn - shanghai
&< CommonPara  meters >
```

Response example

- XML format

```
<? xml   version =" 1 . 0 "  encoding =" UTF - 8 "?>
< DeleteBgpP  eerRespons  e >
    < RequestId > 0ED8D006 - F706 - 4D23 - 88ED - E11ED28DCA  C0 </
 RequestId >
</ DeleteBgpP  eerRe >
```

- JSON format

```
{
 " RequestId ":" 0ED8D006 - F706 - 4D23 - 88ED - E11ED28DCA  C0 "
}
```

Error codes

HTTP status code	Error code	Error message	Description
404	InvalidRegionId.NotFound	Specified value of "regionId" is not supported.	The specified region ID does not exist.
400	QuotaExceeded.Bgp	bgp peer count per vbr quota exceed.	The BGP group quota of the VBR has been reached.
400	QuotaExceeded.Nqa	nqa count per vbr quota exceed.	The NQA quota of the VBR has been reached.
400	QuotaExceeded.BgpNetwork	bgp network count per vbr quota exceed.	The BGP network quota of the VBR has been reached.
400	InvalidPeerIpAddress	multi pconn peer ip can not be null.	The peer IP address of multiple physical connections cannot be null.
400	InvalidVbrNetwork	vbr netowrk not exists	The specified VBR does not exist.

HTTP status code	Error code	Error message	Description
400	InvalidBgpGroup	bgp group not exists	The specified BGP group does not exist.
400	InvalidBgpName .Malformed	Specified Bgp Group name is not valid.	The name of the BGP group is invalid.
400	InvalidBgp Discription. Malformed	Specified Bgp Group description is not valid.	The description of the BGP group is invalid.
400	InvalidBgp Authkey. Malformed	Specified Bgp Group authkey is not valid.	The authentication key of the BGP group is invalid.
400	InvalidIP. Malformed	Ip malformed.	The IP address format is invalid.
400	InvalidPeerAsn. Malformed	invalid peer asn cannot equals aliyun asn:45104	The specified ASN cannot be the same as the Alibaba Cloud ASN.
400	InvalidParams. NotNull	invalid peer asn cannot equals aliyun asn:45104	The specified ASN cannot be the same as the Alibaba Cloud ASN.
400	InvalidParams. NotFound	vpc instance not found	The specified VPC does not exist.
400	InvalidParams. AlreadyExists	bgp network already exists	The specified BGP network already exists.
400	InvalidStatus. CannotOperate	invalid status cannot operate	You cannot perform this operation because the status is invalid.

See common error codes

12.9 AddBgpNetwork

Advertises a BGP network.

Debug

By using API Explorer, you can easily debug APIs, automatically generate SDK code examples, and quickly search for APIs.

Request parameters

Parameter	Type	Required?	Example value	Description
`Action`	String	Yes	AddBgpNetwork	The name of this action. Value: `AddBgpNetwork`
`DstCidrBlock`	String	Yes	10.110.192.12/32	The CIDR block of the VPC or VSwitch to be connected to the on-premises data center.
`RegionId`	String	Yes	cn-shanghai	The region to which the VBR group belongs. To query the region ID, call `DescribeRegions`.
`RouterId`	String	Yes	vrt-2zeo3xzyf38r4urzdpvfs	The ID of the VBR.
`ClientToken`	String	No	02fb3da4-130e-11e9-8e44-0016e04115b	The client token that guarantees the idempotence of the request. This parameter value is generated by the client and must be unique. It mus be 1 to 64 ASCII characters in length.
`VpcId`	String	No	vpc-bp1qpo0kug3a20qqe9h7v	The ID of the VPC.

Response parameters

Parameter	Type	Example value	Description
`RequestId`	String	9C7FA9D6-72E0-48A9-A9C3-2DA8569CD5EB	The ID of the request.

Examples

Request example

```
 https :// vpc . aliyuncs . com /? Action = AddBgpNetw  ork
& DstCidrBlo  ck = 10 . 110 . 192 . 12 / 32
& RegionId = cn - shanghai
& RouterId = vrt - 2zeo3xzyf3  8r4urzdpvf  s
&< CommonPara  meters >
```

Response example

- XML format

```
< AddBgpNetw  orkRespons  e >
  < RequestId > 0ED8D006 - F706 - 4D23 - 88ED - E11ED28DCA  C0 </
 RequestId >
</ AddBgpNetw  orkRespons  e >
```

- JSON format

```
 {
 " RequestId ":" 0ED8D006 - F706 - 4D23 - 88ED - E11ED28DCA  C0 "
}
```

Error codes

HTTP status code	Error code	Error message	Description
400	QuotaExceeded.Bgp	bgp peer count per vbr quota exceed.	The BGP group quota of the VBR has been reached.
400	QuotaExceeded.Nqa	nqa count per vbr quota exceed.	The NQA quota of the VBR has been reached.
400	QuotaExceeded.BgpNetwork	bgp network count per vbr quota exceed.	The BGP network quota of the VBR has been reached.
400	InvalidPeerIpAddress	multi pconn peer ip can not be null.	The peer IP address of multiple physical connections cannot be null.
400	InvalidVbrNetwork	vbr netowrk not exists	The specified VBR does not exist.
400	InvalidBgpName.Malformed	Specified Bgp Group name is not valid.	The name of the BGP group is invalid.

HTTP status code	Error code	Error message	Description
400	InvalidBgp Discription. Malformed	Specified Bgp Group description is not valid.	The description of the BGP group is invalid.
400	InvalidBgp Authkey. Malformed	Specified Bgp Group authkey is not valid.	The authentication key of the BGP group is invalid.
400	InvalidIP. Malformed	Ip malformed.	The IP address format is invalid.
400	InvalidPeerAsn. Malformed	invalid peer asn cannot equals aliyun asn:45104	The specified ASN cannot be the same as the Alibaba Cloud ASN.
400	InvalidParams. NotNull	parameter must not null.	This parameter cannot be null.
400	InvalidParams. NotFound	vpc instance not found	The specified VPC does not exist.
400	InvalidParams. AlreadyExists	bgp network already exists	The specified BGP network already exists.
400	InvalidStatus. CannotOperate	invalid status cannot operate	The status of the resource does not permit this operation.
404	InvalidRegionId. NotFound	The specified RegionId does not exist in our records.	The specified region ID does not exist.

See common error codes

12.10 DeleteBgpNetwork

Deletes an advertised BGP network.

Debug

By using API Explorer, you can easily debug APIs, automatically generate SDK code examples, and quickly search for APIs.

Request parameters

Parameter	Type	Required?	Example value	Description
`Action`	String	Yes	DeleteBgpNetwork	The name of this action. Value: `DeleteBgpNetwork`
`dstCidrBlock`	String	Yes	10.110.192.12/32	The advertised BGP network.
`RegionId`	String	Yes	cn-hangzhou	The region to which the BGP network belongs. To query the region ID, call `DescribeRegions`.
`routeId`	String	Yes	vrt-bp1lhl0taikrteen80oxx	The ID of the VBR.
`ClientToken`	String	No	02fb3da4-130e-11e9-8e44-0016e04115b	The client token that guarantees the idempotence of the request. This parameter value is generated by the client and must be unique. It must be 1 to 64 ASCII characters in length.

Response parameters

Parameter	Type	Example value	Description
`RequestId`	String	22F4C006-D3BB-4F96-9FF9-4C8335276D70	The ID of the request.

Examples

Request example

```
https://vpc.aliyuncs.com/?Action=DeleteBgpNetwork
&DstCidrBlock=10.110.192.12/32
&RegionId=cn-hangzhou
```

```
& RouterId = vrt - bp1lhl0tai  krteen80ox  x
&< CommonPara  meters >
```

Response example

- **XML format**

```
< DeleteBgpN  etworkResp  onse >
  < RequestId > 0ED8D006 - F706 - 4D23 - 88ED - E11ED28DCA  C0 </
 RequestId >
</ DeleteBgpN  etworkResp  onse >
```

- **JSON format**

```
{
 " RequestId ":" 0ED8D006 - F706 - 4D23 - 88ED - E11ED28DCA  C0 "
}
```

Error codes

HTTP status code	Error code	Error message	Description
404	InvalidRegionId.NotFound	Specified value of "regionId" is not supported.	The specified region ID does not exist.
400	QuotaExceeded.Bgp	bgp peer count per vbr quota exceed.	The BGP group quota of the VBR has been reached.
400	QuotaExceeded.Nqa	nqa count per vbr quota exceed.	The NQA quota of the VBR has been reached.
400	QuotaExceeded.BgpNetwork	bgp network count per vbr quota exceed.	The BGP network quota of the VBR has been reached.
400	InvalidPeerIpAddress	multi pconn peer ip can not be null.	The peer IP address of multiple physical connections cannot be null.
400	InvalidVbrNetwork	vbr netowrk not exists	The specified VBR does not exist.
400	InvalidBgpGroup	bgp group not exists	The specified BGP group does not exist.
400	InvalidBgpName.Malformed	Specified Bgp Group name is not valid.	The name of the BGP group is invalid.

HTTP status code	Error code	Error message	Description
400	InvalidBgp Discription. Malformed	Specified Bgp Group description is not valid.	The description of the BGP group is invalid.
400	InvalidBgp Authkey. Malformed	Specified Bgp Group authkey is not valid.	The authentication key of the BGP group is invalid.
400	InvalidIP. Malformed	Ip malformed.	The IP address format is invalid.
400	InvalidPeerAsn. Malformed	invalid peer asn cannot equals aliyun asn:45104	The specified ASN cannot be the same as the Alibaba Cloud ASN.
400	InvalidParams. NotNull	invalid peer asn cannot equals aliyun asn:45104	The specified ASN cannot be the same as the Alibaba Cloud ASN.
400	InvalidParams. NotFound	vpc instance not found	The specified VPC does not exist.
400	InvalidParams. AlreadyExists	bgp network already exists	The specified BGP network already exists.
400	InvalidStatus. CannotOperate	invalid status cannot operate	The status of the resource does not permit this operation.

See common error codes

12.11 ModifyBgpPeerAttribute

Modifies the attributes of a BGP peer.

Debug

Use OpenAPI Explorer to perform debug operations and generate SDK code examples.

Request parameters

Parameter	Type	Required?	Example value	Description
`Action`	String	Yes	ModifyBgpPeerAttribute	The name of this action. Value: ModifyBgpPeerAttribute
`BgpPeerId`	String	Yes	Bgp-awjhxxxxxxxx	The ID of the BGP peer.
`RegionId`	String	Yes	cn-shanghai	The region ID of the BGP group. To query the region ID, call DescribeRegions.
`BgpGroupId`	String	No	bgpg-wz9f62v4fbgxxxxxxxx	Optional. The ID of the BGP group.
`ClientToken`	String	No	02fb3da4-130e-11e9-8e44-001xxxxxxxx	Optional. Guarantees the idempotence of the request. The value of this parameter is generated by the client. The value is unique among different requests and 1 to 64 ASCII characters in length.
`EnableBfd`	Boolean	No	true	Optional. Indicates whether to enable the BFD function. Valid values: · true: Enable the BFD function. · false: Do not enable the BFD function.
`PeerIpAddress`	String	No	116.62.xx.xx	Optional. The IP address of the BGP peer.

Response parameters

Parameter	Type	Example value	Description
RequestId	String	D4B7649A-61BB-4C64-A586-1DFF1EDA6A42	The ID of the request.

Examples

Request example

```
 https :// vpc . aliyuncs . com /? Action = ModifyBgpP  eerAttribu
 te
& BgpPeerId = Bgp - awjhxxxxxx  xx
& RegionId = cn - shanghai
&< CommonPara  meters >
```

Response examples

`XML` format

```
< CreateBgpP  eerRespons  e >
  < RequestId > 0ED8D006 - F706 - 4D23 - 88ED - E11ED28DCA  C0 </
 RequestId >
</ CreateBgpP  eerRespons  e >
```

`JSON` format

```
{
 " RequestId ":" 0ED8D006 - F706 - 4D23 - 88ED - E11ED28DCA  C0 "
}
```

Error codes

HTTP status code	Error code	Error message	Description
400	InvalidRegionId.NotFound	The specified RegionId does not exist in our records.	The region ID you specified is invalid. Please check if the cloud service is available in the specified region.

See common error codes.

13 Virtual Border Router

13.1 CreateVirtualBorderRouter

Creates a Virtual Border Router (VBR).

If you create a VBR for your account, the VBR is in the Enabled state after being created. Next, if you create a VBR for another account, the VBR is in the Unconfirmed state after being created and confirmation by the account is required.

Debug

By using API Explorer, you can easily debug APIs, automatically generate SDK code examples, and quickly search for APIs.

Request parameters

Parameter	Type	Required?	Example value	Description
`Action`	String	Yes	CreateVirtualBorderRouter	The name of this action. Value: `CreateVirtualBorderRouter`
`PhysicalConnectionId`	String	Yes	pc-xxxxxxxxx	The ID of the physical connection.
`RegionId`	String	Yes	cn-shanghai	The ID of the region to which the physical connection belongs. To query the region ID, call `DescribeRegions`.

Parameter	Type	Required?	Example value	Description
`VlanId`	String	Yes	10	The VLAN ID of the VBR. Value range: 1 to 2999. Note: Only the owner of the physical connection can specify this parameter. The VLAN IDs of two VBRs of the same physical connection must be different.
`CircuitCode`	String	No	longtel001	The circuit code provided by the service provider for the physical connection. Note: Only the owner of the physical connection can specify this parameter.
`ClientToken`	String	No	02fb3da4-130e-11e9-8e44-0016e04115b	A client token used to guarantee the idempotence of requests. This parameter value is generated by the client and is guaranteed to be unique among different requests. It must be 1 to 64 ASCII characters in length.
`Description`	String	No	The description of the VBR	The description of the VBR. The description must be 2 to 256 characters in length. It must start with a letter and cannot start with `http://` or `https://`.

Parameter	Type	Required?	Example value	Description
`LocalGatewayIp`	String	No	116.62.222.28	The Alibaba Cloud-side IP address of the VBR.
`Name`	String	No	test	The name of the VBR. The name must be 2-128 characters in length. It can contain letters, numbers, periods (.), underscores (_), and hyphens (-). It must start with a letter and cannot start with `http://` or `https://`.
`PeerGatewayIp`	String	No	116.62.222.28	The client-side IP address of the VBR. Only the VBR owner can specify or modify this parameter. The client-side IP address of the VBR is required when you create a VBR for the physical connection owner, and it cannot be specified when you create a VBR for another account.
`PeeringSubnetMask`	String	No	255.255.255.252	The subnet mask for the Alibaba Cloud-side IP address and the client-side IP address. The two IP addresses must be in the same subnet.
`VbrOwnerId`	String	No	10	The account ID of the VBR owner. The default value is account ID of the current user, namely the owner of the physical connection.

Response parameters

Parameter	Type	Example value	Description
VbrId	String	vbr-bp1jcg5cmxjbl9xgc58bw	The ID of the VBR.
RequestId	String	4EC47282-1B74-4534-BD0E-403F3EE64CAF	The ID of the request.

Examples

Request example

```
 http ( s ):// vpc . aliyuncs . com /? Action = CreateVirt
 ualBorderR  outer
& PhysicalCo  nnectionId = pc - xxxxxxxxx
& RegionId = cn - shanghai
& VlanId = 10
&< CommonPara  meters >
```

Response example

- XML format

```
< CreateRout  erInterfac  eResponse >
  < RequestId > 980960B0 - 2969 - 40BF - 8542 - EBB34FD358  AB </
 RequestId >
  < VbrId > vbr - 2zecmmvg5g  vu8i4telkh  w </ VbrId >
</ CreateRout  erInterfac  eResponse >
```

- JSON format

```
{
 " CreateRout  erInterfac  eResponse ":{
  " RequestId ":" 980960B0 - 2969 - 40BF - 8542 - EBB34FD358  AB ",
  " VbrId ":" vbr - 2zecmmvg5g  vu8i4telkh  w "
 }
```

```
}
```

Error codes

HTTP status code	Error code	Error message	Description
404	InvalidRegionId.NotFound	The specified RegionId is not found.	The specified region ID does not exist.
400	InvalidPhysicalConnectionId.NotFound	The specified PhysicalConnectionId is not found.	The physical connection ID does not exist.
400	InvalidVlanId.Used	The specified VlanId has been used.	The specified VLAN is already occupied.
400	MissingParameter	The input parameter 'PhysicalConnectionId' that is mandatory for processing this request is not supplied.	The PhysicalConnectionId parameter must be specified.
400	InvalidPhysicalConnectionId.NotEnabled	The specified PhysicalConnectionId is not in Enabled state.	The physical connection is not in the Enabled status.
404	InvalidVbrOwnerId.NotFound	The specified VbrOwnerId is not valid.	The value of the VbrOwnerId parameter is invalid.
400	InvalidVlanId.Malformed	The specified VlanId is not valid.	The value of the VbrOwnerId parameter is invalid.
400	InvalidCircuitCode.Malformed	The specified CircuitCode is not valid.	The specified CircuitCode is invalid.
400	MissingParameter	The input parameter 'LocalGatewayIp' that is mandatory for processing this request is not supplied.	The LocalGatewayIp parameter is required.

HTTP status code	Error code	Error message	Description
400	InvalidLocalGatewayIp.Malformed	The specified LocalGatewayIp is not valid.	The specified local gateway IP address is invalid.
400	MissingParameter	The input parameter 'PeerGatewayIp' that is mandatory for processing this request is not supplied.	The PeerGatewayIp parameter is required.
400	MissingParameter	The input parameter 'PeeringSubnetMask' that is mandatory for processing this request is not supplied.	The PeeringSubnetMask parameter must be specified.
400	InvalidPeeringSubnetMask.Malformed	The specified PeeringSubnetMask is not valid.	The specified PeeringSubnetMask parameter is invalid.
403	Forbidden.LocalGatewayIpNotAllowedByCaller	The caller is not allowed to specify the LocalGatewayIp parameter.	You are not allowed to specify the LocalGatewayIp parameter.
403	Forbidden.PeeringSubnetMaskNotAllowedByCaller	The caller is not allowed to specify the PeeringSubnetMask parameter.	You are not allowed to specify the PeeringSubnetMask parameter.
403	Forbidden.DescriptionNotAllowedByCaller	The caller is not allowed to specify the Description parameter.	You are not allowed to specify the Description parameter.
400	InvalidName.Malformed	The specified ?Name? is not valid.	The name format is invalid.
400	InvalidDescription.Malformed	The specifid ?Description? is not valid.	The description format is invalid. The description must be 2 to 256 characters in length. It cannot start with http:// and https://.

HTTP status code	Error code	Error message	Description
400	QuotaExceeded.vbrPerpConn	Virtual boarder router per PhysicalConnection quota exceed.	The VBR quota for the physical connection is exceeded.
400	InvalidIp.NotSameSubnet	Local gateway ip and peer gateway ip are not in the same subnet.	The local gateway IP address and the peer gateway IP address are not in the same subnet.
404	CROSS_BID.FORBIDDEN	Create VBR across bid is illegal	You cannot create a VBR for a user of another site.

See common error codes

13.2 DeleteVirtualBorderRouter

Delete a VBR.

Note the following before deleting a VBR:

- You must delete all router interfaces on the VBR.
- You can only delete a VBR in the Unconfirmed, Enabled, or Terminated status.
- If the VBR you want to delete is under another Alibaba Cloud account, the VBR must be in the Unconfirmed status.

Debug

By using API Explorer, you can easily debug APIs, automatically generate SDK code examples, and quickly search for APIs. API Explorer can help reduce possible difficulty with using cloud APIs. We recommend that you use API Explorer.

Request parameters

Parameter	Type	Required?	Example value	Description
`Action`	String	Yes	DeleteVirtualBorderRouter	The action to perform. Valid value: `DeleteVirtualBorderRouter`
`RegionId`	String	Yes	cn-shanghai	The ID of the region where the VBR is located. You can obtain the region ID by calling the `DescribeRegions` API.
`VbrId`	String	Yes	vbr-bp12mw1f8k3jgygk9bmlj	The ID of the VBR.
`ClientToken`	String	No	02fb3da4-130e-11e9-8e44-0016e04115b	A client token used to guarantee the idempotence of requests. This parameter value is generated by the client and must be unique. It cannot exceed 64 ASCII characters.

Response parameters

Parameter	Type	Example value	Description
`RequestId`	String	F8BF7D24-F3EB-4E23-9208-B77C6EB78E75	The ID of the request.

Examples

Request example

```
 http ( s ):// vpc . aliyuncs . com /? Action = DeleteVirt
 ualBorderR  outer
& RegionId = cn - shanghai
& VbrId = vbr - bp12mw1f8k  3jgygk9bml  j
&< CommonPara  meters >
```

Response example

- XML format

```
< DeleteVirt  ualBorderR  outerRespo  nse >
  < RequestId > 0ED8D006 - F706 - 4D23 - 88ED - E11ED28DCA  C0 </
 RequestId >
</ DeleteVirt  ualBorderR  outerRespo  nse >
```

- JSON format

```
 {
 " RequestId ":" 0ED8D006 - F706 - 4D23 - 88ED - E11ED28DCA  C0 "
}
```

Error codes

HttpCode	Error code	Error message	Description
404	InvalidVbrId.NotFound	The specified VirutalBorderRouter does not exist in our records.	The specified VBR does not exist.
400	InvalidOperation.RouterInterfaceNotDeleted	The specified VirutalBorderRouter still has routerInterface.	The specified VBR has associated router interfaces.
400	InvalidOperation.OperationNotAllowedInState	The specified VirutalBorderRouter is in invalid state.	The status of the VBR is invalid.
403	Forbidden.OperationNotAllowedByUser	The caller is not allowed to delete the specified VirtualBorderRouter.	You are not allowed to delete the VBR.
403	Forbidden.MultiVlanRi	Multiple vlan router interfaces are found.	Multiple VLAN router interfaces exist.
400	InvalidStatus.NotAllowed	The virtual border has been associated by physicalConnection.	The VBR has associated with a physical connection.

View the error codes of the product

13.3 DescribeVirtualBorderRouters

Queries one or more Virtual Border Routers (VBRs).

Debug

Use OpenAPI Explorer to perform debug operations and generate SDK code examples.

Request parameters

Parameter	Type	Required?	Example value	Description
`Action`	String	Required	DescribeVirtualBorderRouters	The name of this action. Value: DescribeVirtualBorderRouters.
`RegionId`	String	Yes	cn-shanghai	The ID of the region where the VBR is located. To query the region ID, call DescribeRegions.
`Filter.N.Key`	String	No	1	The type of the nth filter. Value range of n: 1 to 5.
`Filter.N.Value.N`	RepeatList	No	1	The mth value of the nth filter. Value range of m: 1 to 5.
`PageNumber`	Integer	No	10	The number of pages to return. Default value: 1.
`PageSize`	Integer	No	1	The number of rows per page. Maximum value: 50. Default value: 10.

Response parameters

Parameter	Type	Example value	Description
VirtualBorderRouterSet			A list of VBRs.

Parameter	Type	Example value	Description
└AccessPointId	String	ap-cn-kojok1xxxxxxxx	The ID of the physical connection access point.
└ActivationTime	String	2017-06-08T12:20:55	The first time at which the VBR was activated.
└AssociatedCens			The associated CEN instances.
└CenId	String	cen-kojok19xxxxxxxx	The ID of the CEN instance.
└CenOwnerId	Long	1086496381294461	The UID of the account to which the CEN instance belongs.
└CenStatus	String	Attached	The status of the CEN instance.
└AssociatedPhysicalConnections			The associated physical connections.
└CircuitCode	String	12	The circuit code provided by the service provider for the physical connection-side interface of the VBR.
└LocalGatewayIp	String	116.62.xx.xx	The local IP address of the physical connection-side interface of the VBR.
└PeerGatewayIp	String	116.62.xx.xx	The peer IP address of the physical connection-side interface of the VBR.
└PeeringSubnetMask	String	255.255.255.252	The subnet mask for the local and peer IP addresses of the physical connection-side interface of the VBR.

Parameter	Type	Example value	Description
└PhysicalConnectionBusinessStatus	String	Normal	The status of the physical connection.
└PhysicalConnectionId	String	pc-119mfjzm7xxxxxxxx	The ID of the physical connection to which the VBR belongs.
└PhysicalConnectionOwnerUid	String	qfrgrgs	The UID of the owner of the physical connection.
└PhysicalConnectionStatus	String	Normal	The status of the physical connection.
└VlanId	String	0	The VLAN ID of the VBR.
└VlanInterfaceId	String	ri-kojok19x3j0q6kxxxxxxxxx	The ID of the physical connection -side interface of the VBR. This route interface can operate as the next hop of routes on the VBR.
└CircuitCode	String	longtel001	The circuit code provided by the service provider for the physical connection.
└ CreationTime	String	2017-06-08T12:20:55	The time at which the VBR was created.
└Description	String	VBR	The description of the VBR.
└DetectMultiplier	Long	3	The multiple of the detection time . The Max Connection packet loss allowed by the receiver. It is used to detect if the link is normal. Value range: 3 to 10.
└ LocalGatewayIp	String	116.62.xx.xx	The Alibaba Cloud-side IP address.

Parameter	Type	Example value	Description
└MinRxInterval	Long	100	The BFD packet receiving interval. Value range: 200 to 1,000. Unit: ms.
└MinTxInterval	Long	100	The BFD packet sending interval. Value range: 200 to 1,000. Unit: ms.
└Name	String	test	The name of the VBR.
└PeerGatewayIp	String	116.62.xx.xx	The client-side IP address.
└PeeringSubnetMask	String	255.255.255.252	The subnet mask for the Alibaba Cloud-side IP address and the client-side IP address.
└PhysicalConnectionBusinessStatus	String	Normal	The business status of the physical connection.
└PhysicalConnectionId	String	pc-119mfjzm7xxxxxxx	The ID of the physical connection to which the VBR belongs.
└PhysicalConnectionOwnerUid	String	usdgbh123fvgf	The UID of the owner of the physical connection.
└PhysicalConnectionStatus	String	Normal	The status of the physical connection.
└RecoveryTime	String	2017-06-08T12:20:55	The last time at which the VBR recovered from the Terminated status to the Active status.
└RouteTableId	String	rtb-bp1nxxxxxxxxxxxxxxxx	The ID of the route table of the VBR.

Parameter	Type	Example value	Description
└Status	String	active	The status of the physical connection: · Initial: applying · Approved: approved · Allocating: allocating resources · Allocated: access construction · Confirmed: waiting for user confirmation · Enabled: enabled · Rejected: rejected · Canceled: canceled · Allocation Failed: resource allocation failed · Terminated: terminated
└TerminationTime	String	2017-06-08T12:20:55	The last time at which the VBR was terminated.
└VbrId	String	vbr-kojok19xxxxxxxxx	The ID of the VBR.
└VlanId	Integer	10	The VLAN ID of the VBR.
└VlanInterfaceId	String	ri-2zeo3xzyf38r4xxxxxxxx	The ID of the router interface of the VBR.
TotalCount	Integer	10	The number of queried entries.
PageNumber	Integer	10	The current page number.
PageSize	Integer	10	The number of entries per page.
RequestId	String	DE77A7F3-3B74-41C0-A5BC-CAFD188C28B6	The ID of the request.

Examples

Request example

```
 http ( s ):// vpc . aliyuncs . com /?  Action = DescribeVi
 rtualBorde  rRouters
& RegionId = cn - shanghai
&< CommonPara  meters >
```

Response example

`XML` format

```
< DescribeVi  rtualBorde  rRoutersRe  sponse >
  < RequestId > AE65530E - 8436 - 4FB1 - 8217 - DCD35712AC  89 </
 RequestId >
  < PageNumber > 1 </ PageNumber >
  < VirtualBor  derRouterS  et >
    < VirtualBor  derRouterT  ype >
      < LocalGatew  ayIp > 10 . 1 . xx . xx </ LocalGatew  ayIp >
      < PeerGatewa  yIp > 10 . 2 . xx . xx </ PeerGatewa  yIp >
      < PhysicalCo  nnectionOw  nerUid > 123157908X  XXXXXXX </
 PhysicalCo  nnectionOw  nerUid >
      < VlanId > 10 </ VlanId >
      < PhysicalCo  nnectionSt  atus > Enabled </ PhysicalCo
 nnectionSt  atus >
      < PhysicalCo  nnectionId > pc - 2zeoaxkq3j  otxxxxxxxx </
 PhysicalCo  nnectionId >
      < RouteTable  Id > vtb - 2ze9hmd6yo  fwvxxxxxxx  x </
 RouteTable  Id >
      < PeeringSub  netMask > 255 . 0 . 0 . 0 </ PeeringSub  netMask >
      < CreationTi  me > 2018 - 03 - 06T11 : 16 : 34Z </ CreationTi
 me >
      < Activation  Time > 2018 - 03 - 06T11 : 16 : 34Z </ Activation
 Time >
      < Status > active </ Status >
      < PhysicalCo  nnectionBu  sinessStat  us > Normal </ PhysicalCo
 nnectionBu  sinessStat  us >
      < VlanInterf  aceId > ri - 2zeum6rgu0  586xxxxxxx  x </
 VlanInterf  aceId >
      < AccessPoin  tId > ap - cn - beijing - dx - A </ AccessPoin
 tId >
      < VbrId > vbr - 2zecmmvg5g  xxxxxxxx </ VbrId >
    </ VirtualBor  derRouterT  ype >
  </ VirtualBor  derRouterS  et >
  < TotalCount > 1 </ TotalCount >
  < PageSize > 10 </ PageSize >
</ DescribeVi  rtualBorde  rRoutersRe  sponse >
```

`JSON` format

```
{
 " DescribeVi  rtualBorde  rRoutersRe  sponse ":{
  " PageNumber ": " 1 ",
  " VirtualBor  derRouterS  et ":{
   " VirtualBor  derRouterT  ype ":{
    " LocalGatew  ayIp ":" 10 . 1 . xx . xx ",
    " PeerGatewa  yIp ":" 10 . 2 . xx . xx ",
    " PhysicalCo  nnectionOw  nerUid ":" 123157908X  XXXXXXX ",
    " VlanId ":" 10 ",
    " PhysicalCo  nnectionSt  atus ":" Enabled ",
    " PhysicalCo  nnectionId ":" pc - 2zeoaxkq3j  otxxxxxxxx ",
    " RouteTable  Id ":" vtb - 2ze9hmd6yo  fwvxxxxxxx  x ",
    " PeeringSub  netMask ":" 255 . 0 . 0 . 0 ",
    " CreationTi  me ":" 2018 - 03 - 06T11 : 16 : 34Z ",
```

```
    " Activation  Time ":" 2018 - 03 - 06T11 : 16 : 34Z ",
    " Status ":" active ",
    " PhysicalCo  nnectionBu  sinessStat  us ":" Normal ",
    " VlanInterf  aceId ":" ri - 2zeum6rgu0  586xxxxxxx  x ",
    " VbrId ":" vbr - 2zecmmvg5g  xxxxxxxx ",
    " AccessPoin  tId ":" ap - cn - beijing - dx - A "
   }
  },
  " TotalCount ": " 1 ",
  " PageSize ":  10 ,
  " RequestId ":" AE65530E - 8436 - 4FB1 - 8217 - DCD35712AC  89 "
 }
}
```

Error codes

HTTP status code	Error code	Error message	Description
404	InvalidFilterKey.ValueNotSupported	Specified filter key is not supported: Filter.X.key	The key of the filter does not support: Filter.X.key

See common error codes

13.4 DescribeVirtualBorderRoutersForPhysicalConnection

Queries the Virtual Border Routers (VBRs) associated with a physical connection, including the VBRs under the physical connection owner's account and other accounts.

Debug

Use OpenAPI Explorer to perform debug operations and generate SDK code examples.

Request parameters

Parameter	Type	Required?	Example value	Description
`Action`	String	Yes	DescribeVirtualBorderRoutersForPhysicalConnection	The name of this action. Value: DescribeVirtualBorderRoutersForPhysicalConnection

Parameter	Type	Required?	Example value	Description
PhysicalConnectionId	String	Yes	pc-119mfj****	The ID of the physical connection.
RegionId	String	Yes	cn-shanghai	The ID of the region to which the physical connection belongs. To query the region ID, call DescribeRegions.
Filter.N.Key	String	No	1	Optional. The filter condition. Value range of N: 1 to 5
Filter.N.Value.N	RepeatList	No	1	Optional. The value of the corresponding filter condition. Value range of N: 1 to 5
PageNumber	Integer	No	1	Optional. The page number. Default value: 1
PageSize	Integer	No	10	Optional. The number of entries per page in the case of a paged query result. Maximum value: 50. Default value: 10

Response parameters

Parameter	Type	Example value	Description
VirtualBorderRouterForPhysicalConnectionSet			The list of VBRs.
ActivationTime	String	2017-06-08T12:20:55	The time when the VBR is activated for the first time.

Parameter	Type	Example value	Description
CircuitCode	String	longtel001	The leased line code provided by the service provider for the physical connection.
CreationTime	String	2017-06-08T12:20:55	The time when the VBR is created.
EccId	String	ecc-sjghe****	The ID of the Express Cloud Connect (ECC) instance.
LocalGatewayIp	String	10.0.0.XX	The Alibaba Cloud-side IP address used by the VBR.
PeerGatewayIp	String	10.0.0.XX	The customer-side IP address used by the VBR.
PeeringSubnetMask	String	255.255.255.0	The subnet mask of the Alibaba Cloud-side IP address and the customer-side IP address.
RecoveryTime	String	2017-06-08T12:20:55	The most recent time when the VBR is recovered from the Terminated state to the Active state.
Status	String	Available	The status of the VBR.
TerminationTime	String	2017-06-08T12:20:55	The most recent time when the VBR is terminated.
Type	String	pconnVBR	The type of the VBR.
VbrId	String	vbr-bp16ksp61j7e0tknxxxx	The ID of the VBR.
VbrOwnerUid	Long	1231579085529	The account ID of the VBR owner. When the VBR and the physical connection belong to the same owner, this parameter is blank.

Parameter	Type	Example value	Description
VlanId	Integer	1678	The VLAN ID of the VBR.
TotalCount	Integer	2	The total number of queried VBRs.
PageNumber	Integer	1	The current page number.
PageSize	Integer	10	The number of VBRs per page.
RequestId	String	7C5AE8B3-A2D8-428D-A2FF-93A225C0821E	The request ID.

Examples

Request example

```
 http ( s )://[ Endpoint ]/?  Action = DescribeVi  rtualBorde
 rRoutersFo  rPhysicalC  onnection
& PhysicalCo  nnectionId = pc - 119mf ****
& RegionId = cn - shanghai
&< CommonPara  meters >
```

Response examples

`XML` format

```
<?  xml   version =" 1 . 0 "  encoding =" UTF - 8 "? >
< DescribeVi  rtualBorde  rRoutersFo  rPhysicalC  onnectionR  esponse
 >
 < RequestId > 03E8CB87 - 5876 - 4034 - BBB2 - 6E0851281C  37 </
 RequestId >
 < PageNumber > 1 </ PageNumber >
 < TotalCount > 2 </ TotalCount >
 < PageSize > 10 </ PageSize >
 < VirtualBor  derRouterF  orPhysical  Connection  Set >
  < VirtualBor  derRouterF  orPhysical  Connection  Type >
   < Activation  Time > 2018 - 03 - 06T11 : 16 : 34Z </ Activation
 Time >
   < CreationTi  me > 2018 - 03 - 06T11 : 16 : 34Z </ CreationTi  me >
   < CircuitCod  e ></ CircuitCod  e >
   < VlanId > 10 </ VlanId >
   < RecoveryTi  me ></ RecoveryTi  me >
   < VbrOwnerUx  xx23157908  5529123 </ VbrOwnerUi  d >
   < Terminatio  nTime ></ Terminatio  nTime >
   < VbrId > Vbrxxxxx - 2zecmmvg5g  vu8i4telkh  w </ VbrId >
  </ VirtualBor  derRouterF  orPhysical  Connection  Type >
  < VirtualBor  derRouterF  orPhysical  Connection  Type >
   < Activation  Time > 2018 - 01 - 04T13 : 34 : 18Z </ Activation
 Time >
   < CreationTi  me > 2018 - 01 - 04T13 : 34 : 18Z </ CreationTi  me >
   < CircuitCod  e ></ CircuitCod  e >
   < VlanId > 100 </ VlanId >
```

```
    < RecoveryTi  me ></ RecoveryTi  me >
    < VxxxbrOwne  rUid > 1231579085  529123 </ VbrOwnerUi  d >
    < Terminatio  nTime ></ Terminatio  nTime >
    < VbrId > vbr - 2zee2e2cwe  tx4k0tohak  w </ VbrId >
   </ VirtualBor  derRouterF  orPhysical  Connection  Type >
</ DescribeVi  rtualBorde  rRoutersFo  rPhysicalC  onnectionR  esponse
 >
```

`JSON` format

```
{
 " PageNumber ": 1 ,
 " TotalCount ": 2 ,
 " PageSize ": 10 ,
 " RequestId ":" 03E8CB87 - 5876 - 4034 - BBB2 - 6E0851281C  37 ",
 " VirtualBor  derRouterF  orPhysical  Connection  Set ":{
  " VirtualBor  derRouterF  orPhysical  Connection  Type ":[
   {
    " CreationTi  me ":" 2018 - 03 - 06T11 : 16 : 34Z ",
    " Activation  Time ":" 2018 - 03 - 06T11 : 16 : 34Z ",
    " CircuitCod  e ":"",
    " VlanId ": 10 ,
    " RecoveryTi  me ":"",
    " VbrOwnerUi  d ":" 1231579085  xxxxxx5291  23 ",
    " VbrId ":" vbr - 2zecmmvg5g  vu8xxxxw ",
    " Terminatio  nTime ":""
   },
   {
    " CreationTi  me ":" 2018 - 01 - 04T13 : 34 : 18Z ",
    " Activation  Time ":" 2018 - 01 - 04T13 : 34 : 18Z ",
    " CircuitCod  e ":"",
    " VlanId ": 100 ,
    " RecoveryTi  me ":"",
    " VbrOwnerUi  d ":" 1231579085  xxx ",
    " VbrId ":" vbr - 2zee2e2cwe  tx4k0txxxx  akw ",
    " Terminatio  nTime ":""
   }
  ]
 }
}
```

Errors

HTTP status code	Error code	Error message	Description
404	InvalidPhysicalConnectionId.NotFound	The specified PhysicalConnectionId does not belong to user.	The specified physical connection does not belong to your account.

For a list of error codes, visit the API Error Center.

13.5 ModifyVirtualBorderRouterAttribute

Modifies the configurations of a VBR.

Note the following before you call this API:

- The VLAN ID can only be modified by the owner of the physical connection.
- A VLAN ID of a physical connection cannot be used by two VBRs at the same time.
- After a VBR enters the Terminated state, its VLAN ID is retained for seven days and is not allowed to be used by other VBRs during this period. It can be used by other VBRs seven days after the termination of the VBR.
- You cannot configure the LocalGatewayIp, PeerGatewayIp, and PeeringSub netMask for VBRs that belong to other accounts.
- Requirements on LocalGatewayIp, PeerGatewayIp, and PeeringSubnetMask are as follows:
  - PeeringSubnetMask can be in the range of /24 to /30.
  - PeeringSubnetMask supports dotted decimal notation and can be in the range of 255.255.255.0 to 255.255.255.252.
  - LocalGatewayIp and PeerGatewayIp must be in the same CIDR block.

    For example,
  - LocalGatewayIp: 192.168.xx. 17
  - PeerGatewayIp: 192.168.xx. 18
  - PeeringSubnetMask: 255.255.255.248

Debug

Use OpenAPI Explorer to perform debug operations and generate SDK code examples.

Request parameters

Parameter	Type	Required?	Example value	Description
`Action`	String	Yes	ModifyVirtualBorderRouterAttribute	The name of this action. Value: ModifyVirtualBorderRouterAttribute

Parameter	Type	Required?	Example value	Description
`RegionId`	String	Yes	cn-shanghai	The ID of the region to which the VBR belongs. To query the region ID, call DescribeRegions.
`VbrId`	String	Yes	vbr-**********	The ID of the VBR.
`AssociatedPhysicalConnections`	String	No	pc-kojok19xxxxxxxxx	Optional. The ID of the physical connection.
`CircuitCode`	String	No	longtel001	Optional. The circuit code provided by the service provider for the physical connection. Note: This parameter can only be specified by the owner of the physical connection.
`ClientToken`	String	No	02fb3da4-130e-11e9-8e44-00xxxxxxxx	Optional. Guarantees the idempotence of the request. The value of this parameter is generated by the client. The value is unique among different requests and is 1 to 64 ASCII characters in length.

Parameter	Type	Required?	Example value	Description
`Description`	String	No	VBR	Optional. The description of the VBR. The description must be 2 to 256 characters in length. It must start with a letter or a Chinese character, and cannot start with `http://` or `https://`.
`DetectMultiplier`	Long	No	3	Optional. The multiplier of the detection time, that is, the maximum number of discarded connection packets that the receiver allows from the sender. Value range: 3 to 10.
`LocalGatewayIp`	String	No	116.62.xx.xx	Optional. The Alibaba Cloud-side IP address used by the VBR.
`MinRxInterval`	Long	No	100	Optional. The time interval between two consecutive BFD packets that are received. Value range: 200 to 1000. Unit: ms
`MinTxInterval`	Long	No	100	Optional. The time interval between two consecutive BFD packets that are sent. Value range: 200 to 1000. Unit: ms

Parameter	Type	Required?	Example value	Description
`Name`	String	No	test	The name of the VBR. The name must be 2 and 128 characters in length and can contain letters, numbers, periods (.), underscores (_), and hyphens (-). The name must start with a letter or a Chinese character. It cannot start with `http://` or `https://`.
`PeerGatewayIp`	String	No	120.120.xx.xx	The customer-side IP address used by the VBR. Only the VBR owner can specify or modify this parameter. For VBRs in the Enabled state, you cannot leave this parameter empty.
`PeeringSubnetMask`	String	No	255.255.128.0	The subnet mask of the Alibaba Cloud-side IP address and the customer-side IP address. The two IP addresses must be in the same subnet.
`VlanId`	Integer	No	12	The VLAN ID of the VBR. Value range: 1 to 2999. Note: This parameter can only be specified by the owner of the physical connection. The VLAN IDs of two VBRs associated with the same physical connection must be different.

Response parameters

Parameter	Type	Example value	Description
RequestId	String	980960B0-2969-40BF-8542-EBB34FD358AB	The ID of the request.

Examples

Request example

```
 http ( s ):// vpc . aliyuncs . com /?  Action = ModifyVirt
 ualBorderR  outerAttri  bute
& RegionId = cn - shanghai
& VbrId = vbr - 123456
& Name = test
&< CommonPara  meters >
```

Response examples

`XML` format

```
< ModifyVirt  ualBorderR  outerAttri  buteRespon  se >
  < RequestId > 980960B0 - 2969 - 40BF - 8542 - EBB34FD358  AB </
 RequestId >
</ ModifyVirt  ualBorderR  outerAttri  buteRespon  se >
```

`JSON` format

```
{
 " RequestId ":" 980960B0 - 2969 - 40BF - 8542 - EBB34FD358  AB "
}
```

Error codes

HTTP status code	Error code	Error message	Description
404	InvalidRegionId.NotFound	The specified RegionId is not found.	The specified region ID is invalid. Please check if the cloud service is available in the specified region.
400	InvalidVbrId.NotFound	The specified VirutalBorderRouter is not found.	The specified VBR does not exist.
400	InvalidVlanId.Used	The specified VlanId has been used.	The specified VLAN is being used.

HTTP status code	Error code	Error message	Description
400	InvalidCircuitCode.Malformed	The specified CircuitCode is not valid.	The specified value of the CircuitCode parameter is invalid.
400	InvalidVlanId.Malformed	The specified VlanId is not valid.	The specified value of the VlanId parameter is invalid.
400	InvalidIp.Malformed	The specified ip address is not valid.	The specified private IP address is invalid.
400	InvalidPeeringSubnetMask.Malformed	The specified PeeringSubnetMask is not valid.	The specified value of the PeeringSubnetMask parameter is invalid.
403	Forbidden.CircuitCodeNotAllowedByCaller	The caller is not allowed to modify.	You are not allowed to modify the CircuitCode parameter.
403	Forbidden.CircuitCodeNotAllowedByCaller	The caller is not allowed to specify the CircuitCode parameter.	You are not allowed to specify the CircuitCode parameter.
403	Forbidden.LocalGatewayIpNotAllowedByCaller	The caller is not allowed to specify the LocalGatewayIp parameter.	You are not allowed to specify the LocalGatewayIp parameter.
403	Forbidden.PeerGatewayIpNotAllowedByCaller	The caller is not allowed to specify the PeerGatewayIp parameter.	You are not allowed to specify the PeerGatewayIp parameter.
403	Forbidden.PeeringSubnetMaskNotAllowedByCaller	The caller is not allowed to specify the PeeringSubnetMask parameter.	You are not allowed to specify the PeeringSubnetMask parameter.
403	Forbidden.VlanIdNotAllowedByCaller	The caller is not allowed to specify the VlanId.	You are not allowed to specify the VLAN ID.

HTTP status code	Error code	Error message	Description
403	Forbidden.NameNotAllowedByCaller	The caller is not allowed to specify the Name parameter.	You are not allowed to specify the Name parameter.
403	Forbidden.DescriptionNotAllowedByCaller	The caller is not allowed to specify the Description parameter.	You are not allowed to specify the Description parameter.
400	InvalidIp.NotSameSubnet	Local gateway ip and peer gateway ip are not in the same subnet.	The local gateway IP address and the peer gateway IP address are not in the same subnet.

See common error codes.

13.6 TerminateVirtualBorderRouter

Terminate the Virtual Border Router (VBR).

After the API is called, the VBR status will be changed from the Enabled status to the Terminated state.

> Note:
> Only the owner of the physical connection to which the VBR is connected can call the API.

Debug

By using API Explorer, you can easily debug APIs, automatically generate SDK code examples, and quickly search for APIs. API Explorer can help reduce possible difficulty with using cloud APIs. We recommend that you use API Explorer.

Request parameters

Parameter	Type	Required?	Example value	Description
`Action`	String	Yes	TerminateVirtualBorderRouter	The action to perform. Valid value: `TerminateVirtualBorderRouter`
`RegionId`	String	Yes	cn-shanghai	The ID of the region where the VBR is located. You can obtain the region ID by calling the `DescribeRegions` API.
`VbrId`	String	Yes	vbr-bp15zckdt37pq72zvw3	The ID of the VBR.
`ClientToken`	String	No	02fb3da4-130e-11e9-8e44-0016e04115b	A client token used to guarantee the idempotence of requests. This parameter value is generated by the client and is guaranteed to be unique among different requests. The maximum length is 64 ASCII characters.

Response parameters

Parameter	Type	Example value	Description
RequestId	String	4EC47282-1B74-4534-BD0E-403F3EE64CAF	The ID of the request.

Examples

Request example

```
 http ( s ):// vpc . aliyuncs . com /? Action = TerminateV
 irtualBord  erRouter
& RegionId = cn - shanghai
& VbrId = vbr - bp15zckdt3  7pq72zvw3
&< CommonPara  meters >
```

Response example

- XML format

```
< TerminateV  irtualBord  erRouterRe  sponse >
  < RequestId > 0ED8D006 - F706 - 4D23 - 88ED - E11ED28DCA  C0 </
 RequestId >
</ TerminateV  irtualBord  erRouterRe  sponse >
```

- JSON format

```
{
 " RequestId ":" 0ED8D006 - F706 - 4D23 - 88ED - E11ED28DCA  C0 "
}
```

Error codes

HTTP code	Error code	Error message	Description
404	InvalidVbrId.NotFound	The specified VirutalBorderRouter is not found.	The specified VBR does not exist.
400	InvalidOperation.OperationNotAllowedInState	The specified VirutalBorderRouter is in invalid state.	The status of the VBR is invalid.

HTTP code	Error code	Error message	Description
403	Forbidden.OperationNotAllowedByUser	The caller is not allowed to terminate the specified VirtualBorderRouter.	You are not allowed to terminate the VBR.

View the error codes of the product

13.7 RecoverVirtualBorderRouter

Recover a terminated Virtual Border Router (VBR).

After the API is called, the VBR status will immediately change from the Terminated state to the Recovering state. Then, when the operation is completed, the status of the VBR is Enabled.

Note the following before recovering a VBR:

- Only the owner of the physical connection can call this API.
- The physical connection that the VBR connects to must be in the Enabled state.

Debug

By using API Explorer, you can easily debug APIs, automatically generate SDK code examples, and quickly search for APIs. API Explorer can help reduce possible difficulty with using cloud APIs. We recommend that you use API Explorer.

Request parameters

Parameter	Type	Required?	Example value	Description
`Action`	String	Yes	RecoverVirtualBorderRouter	The action to perform. Valid value: `RecoverVirtualBorderRouter`

Parameter	Type	Required?	Example value	Description
`RegionId`	String	Yes	cn-shanghai	The ID of the region where the VBR is located. You can obtain the region ID by calling the `DescribeRegions` API.
`VbrId`	String	Yes	vbr-bp1lhl0taikrteen80	The ID of the VBR.
`ClientToken`	String	No	02fb3da4-130e-11e9-8e44-0016e04115b	A client token used to guarantee the idempotence of requests. This parameter value is generated by the client and is guaranteed to be unique among different requests. The maximum length is 64 ASCII characters.

Response parameters

Parameter	Type	Example value	Description
`RequestId`	String	4EC47282-1B74-4534-BD0E-403F3EE64CAF	The ID of the request.

Examples

Request example

```
 http ( s ):// vpc . aliyuncs . com /? Action = RecoverVir
 tualBorder  Router
& RegionId = cn - shanghai
& VbrId = vbr - bp1lhl0tai  krteen80
&< CommonPara  meters >
```

Response example

- XML format

```
< RecoverVir  tualBorder  RouterResp  onse >
  < RequestId > 0ED8D006 - F706 - 4D23 - 88ED - E11ED28DCA  C0 </
 RequestId >
</ RecoverVir  tualBorder  RouterResp  onse >
```

- JSON format

```
 {
 " RequestId ":" 0ED8D006 - F706 - 4D23 - 88ED - E11ED28DCA  C0 "
}
```

Error codes

HTTP code	Error code	Error message	Description
404	InvalidVbrId.NotFound	The specified VirutalBorderRouter is not found.	The specified VBR does not exist.
400	InvalidOperation.OperationNotAllowedInState	The specified VirutalBorderRouter is in invalid state	The current status of the VBR does not support this operation.
400	OperationFailed.VlanIdAlreadyInUse	The specifed vlanId has been used.	The specified VLAN is already occupied.
403	Forbidden.OperationNotAllowedByUser	The caller is not allowed to recover the specified VirtualBorderRouter.	You are not allowed to recover the VBR.

View the error codes of the product

13.8 AssociatePhysicalConnectionToVirtualBorderRouter

Associates a Virtual Border Router (VBR) with a physical connection.

Debug

Use OpenAPI Explorer to perform debug operations and generate SDK code examples.

Request parameters

Parameter	Type	Required?	Example value	Description
`Action`	String	Yes	AssociatePhysicalConnectionToVirtualBorderRouter	The name of this action. Value: AssociatePhysicalConnectionToVirtualBorderRouter
`PhysicalConnectionId`	String	Yes	pc-bp1qrb3044eqixog****	The ID of the physical connection.
`RegionId`	String	Yes	cn-hangzhou	The region ID of the physical connection.
`VbrId`	String	Yes	vbr-bp186tnz6rijyhj******	The ID of the VBR.
`VlanId`	String	Yes	123	The VLAN ID of the VBR. Value range: 1 to 2999 Note: Only the owner of the physical connection can specify this parameter. The VLAN IDs of two VBRs in the same physical connection must be different.
`CircuitCode`	String	No	longtel001	Optional. The leased line code provided by the service provider for the physical connection. Note: This parameter can only be specified by the owner of the physical connection.

Parameter	Type	Required?	Example value	Description
`ClientToken`	String	No	02fb3da4-130e-11e9-8e44-00xxxxxxxx	Optional. The client token used to guarantee the idempotence of the request. The value of this parameter is generated by the client. The value is unique among different requests and 1 to 64 ASCII characters in length.
`LocalGatewayIp`	String	No	10.10.0.1	Optional. The Alibaba Cloud-side IP address used by the VBR.
`PeerGatewayIp`	String	No	10.10.10.9	Optional. The customer-side IP address used by the VBR. This parameter can only be specified or modified by the VBR owner. You cannot change the value of this parameter to null for a VBR in the Enabled state.
`PeeringSubnetMask`	String	No	255.255.255.0	Optional. The subnet mask of the Alibaba Cloud-side IP address and the customer-side IP address. The two IP addresses must belong to the same subnet.

Response parameters

Parameter	Type	Example value	Description
RequestId	String	980960B0-2969-40BF-8542-EBB34FD358AB	The request ID.

Examples

Request example

```
 http ( s )://[ Endpoint ]/?  Action = AssociateP  hysicalCon
 nectionToV  irtualBord  erRouter
& PhysicalCo  nnectionId =  pc - bp1qrb3044  eqixog ****
& RegionId = cn - hangzhou
& VbrId = vbr - bp186tnz6r  ijyhj ******
& VlanId = 123
&< CommonPara  meters >
```

Response examples

`XML` format

```
< AssociateP  hysicalCon  nectionToV  irtualBord  erRouterRe  sponse >
   < RequestId > 980960B0 - 2969 - 40BF - 8542 - EBB34FD358  AB </
 RequestId >
    </ AssociateP  hysicalCon  nectionToV  irtualBord  erRouterRe
 sponse >
```

`JSON` format

```
{
 " RequestId ":" 980960B0 - 2969 - 40BF - 8542 - EBB34FD358  AB "
}
```

Errors

HTTP status code	Error code	Error message	Description
404	InvalidInstanceId.NotFound	The specified Instance does not exist in the specified region.	The specified instance does not exist in the specified region.
404	InvalidVbrId.NotFound	The specified VirutalBorderRouter does not exist in our records.	The specified VBR does not exist.

HTTP status code	Error code	Error message	Description
400	InvalidOperation.RouterInterfaceNotDeleted	The specified VirutalBorderRouter still has routerInterface.	The specified VBR is associated with router interfaces.
400	InvalidOperation.OperationNotAllowedInState	The specified VirutalBorderRouter is in invalid state.	The status of the VBR does not permit this operation.
403	Forbidden.OperationNotAllowedByUser	The caller is not allowed to delete the specified VirtualBorderRouter.	You are not allowed to delete the specified VBR.
403	Forbidden.MultiVlanRi	Multiple vlan router interfaces are found.	Multiple VLAN router interfaces exist.
403	Forbidden.NoRiFound	No vlan router interfaces are found.	No VLAN router interface is available.
400	InvalidStatus.NotAllowed	Invalid virtual border router status.	The status of the VBR does not permit this operation.
404	InvalidRegionId.NotFound	The specified RegionId is not found.	The specified region ID is invalid. Please check if the cloud service is available in the specified region.
400	InvalidPhysicalConnectionId.NotFound	The specified PhysicalConnectionId is not found.	The specified physical connection ID is invalid.
400	InvalidVlanId.Used	The specified VlanId has been used.	The specified VLAN is already occupied.
400	MissingParameter	The input parameter 'PhysicalConnectionId' that is mandatory for processing this request is not supplied.	The PhysicalConnectionId parameter must be specified.
400	InvalidPhysicalConnectionId.NotEnabled	The specified PhysicalConnectionId is not in Enabled state.	The status of the specified physical connection does not permit this operation.

HTTP status code	Error code	Error message	Description
404	InvalidVbrOwnerId.NotFound	The specified VbrOwnerId is not valid.	The value of the VbrOwnerId parameter is invalid.
400	MissingParameter	The input parameter 'VlanId' that is mandatory for processing this request is not supplied.	The VlanId parameter must be specified.
400	InvalidVlanId.Malformed	The specified VlanId is not valid.	The specified value of the VlanId parameter is invalid.
400	InvalidCircuitCode.Malformed	The specified CircuitCode is not valid.	The specified value of the CircuitCode parameter is invalid.
400	MissingParameter	The input parameter 'LocalGatewayIp' that is mandatory for processing this request is not supplied.	The LocalGatewayIp parameter must be specified.
400	InvalidLocalGatewayIp.Malformed	The specified LocalGatewayIp is not valid.	The IP address of the local gateway is invalid.
400	MissingParameter	The input parameter 'PeerGatewayIp' that is mandatory for processing this request is not supplied.	The PeerGatewayIp parameter must be specified.
400	InvalidPeerGatewayIp.Malformed	The specified PeerGatewayIp is not valid.	The specified value of the PeerGatewayIp parameter is invalid.
400	MissingParameter	The input parameter 'PeeringSubnetMask' that is mandatory for processing this request is not supplied.	The PeeringSubnetMask parameter must be specified.

HTTP status code	Error code	Error message	Description
400	InvalidPeeringSubnetMask.Malformed	The specified PeeringSubnetMask is not valid.	The specified value of the PeeringSubnetMask parameter is invalid.
403	Forbidden.LocalGatewayIpNotAllowedByCaller	The caller is not allowed to specify the LocalGatewayIp parameter.	You are not allowed to specify the LocalGatewayIp parameter.
403	Forbidden.PeerGatewayIpNotAllowedByCaller	The caller is not allowed to specify the PeerGatewayIp parameter.	You are not allowed to specify the PeerGatewayIp parameter.
403	Forbidden.PeeringSubnetMaskNotAllowedByCaller	The caller is not allowed to specify the PeeringSubnetMask parameter.	You are not allowed to specify the PeeringSubnetMask parameter.
403	Forbidden.NameNotAllowedByCaller	The caller is not allowed to specify the Name parameter.	You are not allowed to specify the Name parameter.
403	Forbidden.DescriptionNotAllowedByCaller	The caller is not allowed to specify the Description parameter.	You are not allowed to specify the Description parameter.
400	InvalidName.Malformed	The specified ? Name? is not valid.	The format of the name is invalid.
400	InvalidDescription.Malformed	The specifid ? Description ? is not valid.	The format of the description is invalid. The description must be 2 to 256 characters in length. It cannot start with http:// or https://.
400	QuotaExceeded.vbrPerpConn	Virtual boarder router per PhysicalConnection quota exceed.	The VBR quota for the physical connection is exceeded.
400	EXCEED_ASSOCIATE_MAX_NUM	assocaite virtual boarder num too many.	The quota of associated VBRs is exceeded.

HTTP status code	Error code	Error message	Description
400	InvalidIP.Malformed	Ip malformed.	The IP address format is invalid.
400	InvalidIp.NotSameSubnet	Local gateway ip and peer gateway ip are not in the same subnet.	The local gateway IP address and the peer gateway IP address do not belong to the same subnet.
400	InvalidStatus.StatusNotEnabled	The physical connection status is invalid.	The status of the physical connection does not permit this operation.
400	PHYSICAL_NOT_ALLOW_ASSOCIATE_VBR	The specified operation not allow.	The operation failed because the physical connection is associated with VBRs.

For a list of error codes, visit the API Error Center.

13.9 UnassociatePhysicalConnectionFromVirtualBorderRouter

Disassociates a Virtual Border Router (VBR) from a physical connection.

Debug

Use OpenAPI Explorer to perform debug operations and generate SDK code examples.

Request parameters

Parameter	Type	Required?	Example value	Description
`Action`	String	Yes	UnassociatePhysicalConnectionFromVirtualBorderRouter	The name of this action. Value: UnassociatePhysicalConnectionFromVirtualBorderRouter
`PhysicalConnectionId`	String	Yes	pc-bp1qrb3044eqixog****	The ID of the physical connection.

Parameter	Type	Required?	Example value	Description
RegionId	String	Yes	cn-hangzhou	The region ID of the physical connection.
VbrId	String	Yes	vbr-bp16ksp61j7e0tkn*****	The VLAN ID of the VBR. Value range: 1 to 2999. Note: This parameter can only be specified by the owner of the physical connection. The VLAN IDs of two VBRs associated with the same physical connection must be different.
ClientToken	String	No	longtel001	Optional. The leased line code provided by the service provider for the physical connection. Note: This parameter can only be specified by the owner of the physical connection.

Response parameters

Parameter	Type	Example value	Description
RequestId	String	980960B0-2969-40BF-8542-EBB34FD358AB	The request ID.

Examples

Request example

```
http(s)://[Endpoint]/?Action=UnassociatePhysicalConnectionFromVirtualBorderRouter
&PhysicalConnectionId=pc-bp1qrb3044eqixog****
&RegionId=cn-hangzhou
```

```
& VbrId = vbr - bp16ksp61j  7e0tkn *****
&< CommonPara  meters >
```

Response examples

`XML` format

```
< Unassociat  ePhysicalC  onnectionF  romVirtual  BorderRout
 erResponse >
   < RequestId > 980960B0 - 2969 - 40BF - 8542 - EBB34FD358  AB </
 RequestId >
    </ Unassociat  ePhysicalC  onnectionF  romVirtual  BorderRout
 erResponse >
```

`JSON` format

```
{
 " RequestId ":" 980960B0 - 2969 - 40BF - 8542 - EBB34FD358  AB "
}
```

Errors

HTTP status code	Error code	Error message	Description
404	InvalidVbrId.NotFound	The specified VirutalBorderRouter does not exist in our records.	The specified VBR does not exist.
404	InvalidVbrId.NotFound	The specified VirutalBorderRouter or PhysicalConnection does not exist in our records.	The specified VBR or physical connection does not exist.
400	PARAMETER_MUST_NOT_NULL	The specified physical connection id or vbrId must not be null.	The VbrId parameter and the PhysicalConnectionId parameter must be specified.
400	PHYSICAL_NOT_ASSOCIATE_TO_VBR	The specified PhysicalConnection have not associate to the vbr.	No VBR is created for the specified physical connection.
400	ROUTER_INTERFACE_REFERED_BY_ROUTEENTRY	The specified VlanInterface has been used by routeEntry.	The specified VLAN interface is already used in a route entry.
400	InvalidStatus.NotAllowed	Invalid virtual border router status.	The status of the VBR does not permit this operation.

HTTP status code	Error code	Error message	Description
400	PHYSICAL_NOT_ALLOW_ASSOCIATE_VBR	The specified operation not allow.	The operation failed because the physical connection is associated with VBRs.

For a list of error codes, visit the API Error Center.

14 Physical connection

14.1 CreatePhysicalConnection

Applies for a physical connection.

After the physical connection application is approved, the status of the physical connection changes to Initial. At this stage, you need to instruct your service provider to start data center cable installation.

Note the following before you call this API:

- The number of physical connections that are not in the Enabled state must be no more than five.
- If a physical connection under your account has an overdue payment, you cannot apply for new physical connections.

Debug

Use OpenAPI Explorer to perform debug operations and generate SDK code examples.

Request parameters

Parameter	Type	Required?	Example value	Description
`Action`	String	Yes	CreatePhysicalConnection	The name of this action. Value: CreatePhysicalConnection
`AccessPointId`	String	Yes	AccessPointId=ap-cn-beijing-ft-A	The ID of the access point used by the physical connection. To query the region ID, call DescribeRegions.

Parameter	Type	Required?	Example value	Description
ClientToken	String	Yes	dgfdg12344ff	The client token. It is used to guarantee the idempotence of the request. The value of this parameter is generated by the client and is unique among different requests. It can contain up to 64 ASCII characters.
LineOperator	String	Yes	CT	The service provider that provides the leased line. Valid values: · CT: China Telecom · CU: China Unicom · CM: China Mobile · CO: Other service providers in Mainland China · Equinix: Equinix · Other: Other service providers outside Mainland China
PeerLocation	String	Yes	Zhejiang --- vfjdbg_21e	The geographic location of the on-premises data center.
RegionId	String	Yes	cn-shanghai	The ID of the region to which the physical connection belongs. To query the region ID, call DescribeRegions.
CircuitCode	String	No	longtel001	Optional. The leased line code provided by the service provider for the physical connection.

Parameter	Type	Required?	Example value	Description
`Description`	String	No	The description of the physical connection.	Optional. The description of the physical connection. The description must be 2 to 256 characters in length. It must start with a letter or a Chinese character, and cannot start with `http://` or `https://`.
`Name`	String	No	test	Optional. The name of the physical connection. The name must be 2 and 128 characters in length and can contain letters, numbers, periods (.), underscores (_), and hyphens (-). The name must start with a letter or a Chinese character. It cannot start with `http://` or `https://`.
`PortType`	String	No	1000Base-T	Optional. The port type of the physical connection. Valid values: · 100Base-T: 100M electrical ports · 1000Base-T (default value): 1 Gigabit electrical ports · 1000Base-LX: 1 Gigabit single-mode optical ports (10 km) · 10GBase-T: 10G electrical ports · 10GBase-LR: 10G single-mode optical ports (10 km)

Parameter	Type	Required?	Example value	Description
RedundantPhysicalConnectionId	String	No	pc-119mfjzm7	Optional. The ID of the redundant physical connection. The redundant physical connection must be in the Allocated, Confirmed, or Enabled state.
Type	String	No	VPC	Optional. The type of the physical connection. Default value: VPC
bandwidth	Integer	No	10	Optional. The bandwidth of the physical connection. Value range: 5 to 5000. Unit: Mbit/s

Response parameters

Parameter	Type	Example value	Description
PhysicalConnectionId	String	vpc-bp12mw1f8k3jgygk9bmlj	The ID of the created physical connection.
RequestId	String	8A6A5EC5-6F6C-4906-9689-56ACE58A13E0	The request ID.

Examples

Request example

```
 http ( s )://[ Endpoint ]/?  Action = CreatePhys  icalConnec  tion
& AccessPoin  tId = AccessPoin  tId = ap - cn - beijing - ft - A
& ClientToke  n = dgfdg12344  ff
& LineOperat  or = CT
& PeerLocati  on = Zhejiang --- vfjdbg_21e
& RegionId = cn - shanghai
&< CommonPara  meters >
```

Response examples

`XML` format

```
< CreatePhys  icalConnec  tionRespon  se >
      < RequestId > 8A6A5EC5 - 6F6C - 4906 - 9689 - 56ACE58A13  E0 "</
 RequestId >
      < PhysicalCo  nnectionId > pc -**************</ PhysicalCo
 nnectionId >
</ CreatePhys  icalConnec  tionRespon  se >
```

`JSON` format

```
{
 " RequestId ":" 8A6A5EC5 - 6F6C - 4906 - 9689 - 56ACE58A13  E0 ",
 " PhysicalCo  nnectionId ":" pc -**************"
}
```

Errors

HTTP status code	Error code	Error message	Description
400	InvalidAccessPointId.NotEnabled	Invalid access point status.	The status of the access point does not permit this operation.
400	InvalidType.Malformd	The Type provided was invalid.	The value of the Type parameter is invalid.
400	InvalidPeerLocation.Malformd	The PeerLocation provided was invalid.	The specified value of the PeerLocation parameter is invalid.
400	InvalidLineOperator.Malformd	The LineOperator provided was invalid.	The specified value of the LineOperator parameter is invalid.
400	InvalidPortType.Malformd	The PortType provided was invalid.	The port type is invalid.
400	InvalidDescription.Malformed	The specifid ? Description ? is not valid.	The description is invalid. The description must be 2 to 256 characters in length. It cannot start with http:// or https://.
400	InvalidRedundantPhysicalConnectionId.NotFound	The RedundantPhysicalConnectionId does not found.	The specified redundant physical connection does not exist.

HTTP status code	Error code	Error message	Description
400	InvalidName.Malformed	The specified ? Name? is not valid.	The specified name is invalid.
400	QuotaExceeded.pConnPerAP	Physical connection count per ap quota exceed.	The physical connection quota of the access point is exceeded.
400	InvalidBandwidth	invalid physical connection banwidth.	The bandwidth of the physical connection is invalid.
400	InvalidRedundantPhysicalConnection	redundant physical connection doesn't belong to current user.	The redundant physical connection does not belong to your account.
400	InvalidRedundantPhysicalConnectionStatus	invalid redundant physical connection status .	The status of the redundant physical connection is invalid.
400	InvalidCircuitCode.Malformed	circuitCode is illegal.	The specified value of the CircuitCode parameter is invalid.
400	QuotaExceeded.freePconnPerAP	free physical connections count excceeded.	The physical connection quota is exceeded.

For a list of error codes, visit the API Error Center.

14.2 CancelPhysicalConnection

Cancels physical connection access. After the cancelling, the physical connection changes to the Canceled state.

You cannot cancel a physical connection that is in the Enabled state.

Debug

By using API Explorer, you can easily debug APIs, automatically generate SDK code examples, and quickly search for APIs.

Request parameters

Parameter	Type	Required?	Example value	Description
`Action`	String	Yes	CancelPhysicalConnection	The name of this action. Value: `CancelPhysicalConnection`
`PhysicalConnectionId`	String	Yes	pc-119mfjzm7	The ID of the physical connection.
`RegionId`	String	Yes	cn-shanghai	The region where the physical connection is located. To query the region ID, call `DescribeRegions`.
`ClientToken`	String	No	02fb3da4-130e-11e9-8e44-0016e04115b	A client token used to guarantee the idempotence of requests. This parameter value is generated by the client and must be unique. It must be 1 to 64 ASCII characters in length.

Response parameters

Parameter	Type	Example value	Description
`RequestId`	String	4EC47282-1B74-4534-BD0E-403F3EE64CAF	The ID of the request.

Examples

Request example

```
https://vpc.aliyuncs.com/?Action=CancelPhysicalConnection
&PhysicalConnectionId=pc-119mfjzm7
```

```
& RegionId = cn - shanghai
&< CommonPara  meters >
```

Response example

XML format

```
< RequestId > BE36E95A - F83E - 4127 - A29E - F2F35D4C99  9A </
 RequestId >
```

JSON format

```
{
    " RequestId ":" BE36E95A - F83E - 4127 - A29E - F2F35D4C99  9A "
}
```

Error codes

HTTP status code	Error code	Error message	Description
404	InvalidPhysicalConnectionId.NotFound	The PhysicalConnectionId provided does not exist in our records.	The specified physical connection does not exist.
400	Forbidden.NotAllowedInState	The request does not allow in this state.	The request cannot be processed because the status of the resource does not permit this action.

See common error codes

14.3 DescribePhysicalConnections

Queries physical connections in a specified region.

Debug

Use OpenAPI Explorer to perform debug operations and generate SDK code examples.

Request parameters

Parameter	Type	Required?	Example value	Description
`Action`	String	Yes	DescribePhysicalConnections	The name of this action. Value: DescribePhysicalConnections
`RegionId`	String	Yes	cn-hangzhou	The region of the physical connection. To query the region ID, call DescribeRegions.
`ClientToken`	String	No	23243242rggyt	Optional. The client token. It is used to guarantee the idempotence of the request. The value of this parameter is generated by the client and is unique among different requests. It can contain up to 64 ASCII characters.

Parameter	Type	Required?	Example value	Description
`Filter.N.Key`	String	No	1	Optional. The filter condition. Value range of N: 1 to 5. Supported filter conditions include: · PhysicalConnectionId: the ID of the physical connection · AccessPointId: the ID of the access point · Type: the leased line type · LineOperator: the service provider of the physical connection · Spec: the specification of the physical connection · Status: the status of the physical connection · Name: the name of the physical connection The relationship of multiple filter condition values is OR, which means that the corresponding physical connection is returned when any one of the specified values is matched. The relationship of multiple filter conditions is AND, which means a physical connection is returned in the query result only when it meets all the specified conditions.
`Filter.N.Value.N`	RepeatList	No	1	Optional. The value of the corresponding filter condition. Value range of N: 1 to 5

Parameter	Type	Required?	Example value	Description
`IncludeReservationData`	Boolean	No	false	Optional. Indicates whether to return invalid orders.
`PageNumber`	Integer	No	10	Optional. The page number. Default value: 1
`PageSize`	Integer	No	1	Optional. The number of rows per page. Maximum value: 50. Default value: 10

Response parameters

Parameter	Type	Example value	Description
PhysicalConnectionSet			The list of physical connections.
AccessPointId	String	eip-2zeerraiwb7uj6i0d0fo3	The ID of the physical connection access point.
AdLocation	String	Room Ax-x, Building B, No. x of xxx Avenue, New York, US	The location of the physical connection device.
Bandwidth	Long	10	The bandwidth of the physical connection.
BusinessStatus	String	Normal	The payment status of the physical connection. Valid values: · Normal: Indicates that the payment is normal. · FinancialLocked: Indicates that the physical connection is locked due to overdue payments. · SecurityLocked: Indicates that the physical connection is locked due to security reasons.

Parameter	Type	Example value	Description
ChargeType	String	Prepaid	The billing method of the physical connection
CircuitCode	String	longtel001	The leased line code provided by the service provider for the physical connection.
CreationTime	String	2017-06-08T12:20:55	The time when the physical connection is established.
Description	String	Physical connections	The description of the physical connection.
EnabledTime	String	2017-06-08T12:20:55	The time when the physical connection is enabled.
EndTime	String	2019-02-25T11:01:04Z	The time when the physical connection expires.
HasReservationData	String	true	Indicates whether subscription messages are received.
LineOperator	String	CT	The service provider of the leased line. Valid values: · CT: China Telecom · CU: China Unicom · CM: China Mobile · CO: Other Chinese service providers · Equinix: Equinix · Other: Other service providers outside Mainland China
LoaStatus	String	Available	The status of the LOA.
Name	String	name	The name of the physical connection.

Parameter	Type	Example value	Description
PeerLocation	String	Zhejiang --- vfjdbg_21e	The location of the on-premises data center.
PhysicalConnectionId	String	pc-119mfjzm7	The ID of the physical connection.
PortNumber	String	80	The port number of the physical connection device.
PortType	String	1000Base-T	The port type of the physical connection: · 100Base-T: 100M electrical ports · 1000Base-T (default value): 1 Gigabit electrical ports · 1000Base-LX: 1 Gigabit single-mode optical ports (10 km) · 10GBase-T: 10-GE electrical ports · 10GBase-LR: 10-GE single-mode optical ports (10 km)
RedundantPhysicalConnectionId	String	pc-119mfjzm7	The ID of the redundant physical connection
ReservationActiveTime	String	2019-02-25T11:01:04Z	The effective time of a renewal.
ReservationInternetChargeType	String	PayByBandwidth	The type of the renewal.
ReservationOrderType	String	RENEW	The type of the renewal order.
Spec	String	Large	The specification of the physical connection.
Spec	String	Large	The specification of the physical connection.

Parameter	Type	Example value	Description
Status	String	Initial	The status of the physical connection. Valid values: · Initial: Indicates that the physical connection application is being reviewed. · Approved: Indicates that the physical connection application is approved. · Allocating: Indicates that resources are being allocated. · Allocated: Indicates that cables are being installed at the data center. · Confirmed: Indicates that the physical connection is waiting for user confirmation. · Enabled: Indicates that the physical connection is enabled. · Rejected: Indicates that the physical connection application is rejected. · Canceled: Indicates that the physical connection is canceled. · Allocation Failed: Indicates that the resource allocation fails. · Terminated: Indicates that the physical connection is terminated.
Type	String	VPC	The type of the physical connection. Default value: VPC
TotalCount	Integer	10	The number of queried physical connections.
PageNumber	Integer	10	The current page number.
PageSize	Integer	10	The number of physical connection s per page.

Parameter	Type	Example value	Description
RequestId	String	EEC8EAB1-F299-4F5C-8E54-0A3129164C27	The request ID.

Examples

Request example

```
 https :// vpc . aliyuncs . com /? Action = DescribePh  ysicalConn
 ections
& RegionId = cn - hangzhou
&< CommonPara  meters >
```

Response examples

`XML` format

```
< DescribePh  ysicalConn  ectionsRes  ponse >
  < PageNumber > 1 </ PageNumber >
  < TotalCount > 1 </ TotalCount >
  < PageSize > 10 </ PageSize >
  < RequestId > 7C07B0AF - 4FC0 - 4BB2 - 9667 - F75812824B  CD </
 RequestId >
  < PhysicalCo  nnectionSe  t >
    < PhysicalCo  nnectionTy  pe >
      < Type > VPC </ Type >
      < PhysicalCo  nnectionId > pc - 2zeoaxkq3j  ot5p71qcnu  y </
 PhysicalCo  nnectionId >
      < PeerLocati  on > XXX - XXBuidling -- XXXCity </ PeerLocati  on
 >
      < CreationTi  me > 2017 - 12 - 13T02 : 28 : 42Z </ CreationTi
 me >
      < Name > TEST </ Name >
      < Status > Enabled </ Status >
      < AdLocation > XXX -- CabinetXX - XXXXXRoomX  XU </ AdLocation >
      < EnabledTim  e > 2017 - 12 - 18T04 : 01 : 30Z </ EnabledTim  e
 >
      < BusinessSt  atus > Normal </ BusinessSt  atus >
      < LineOperat  or > CT </ LineOperat  or >
      < PortNumber > 1 / 1 / 4 </ PortNumber >
      < AccessPoin  tId > ap - cn - beijing - dx - A </ AccessPoin
 tId >
      < PortType > 100Base - T </ PortType >
      < Bandwidth > 2 </ Bandwidth >
    </ PhysicalCo  nnectionTy  pe >
  </ PhysicalCo  nnectionSe  t >
</ DescribePh  ysicalConn  ectionsRes  ponse >
```

`JSON` format

```
{
 " PageNumber ": 1 ,
 " TotalCount ": 1 ,
 " PageSize ": 10 ,
 " RequestId ":" 7C07B0AF - 4FC0 - 4BB2 - 9667 - F75812824B  CD ",
```

```
" PhysicalCo  nnectionSe  t ":{
 " PhysicalCo  nnectionTy  pe ":[
  {
   " Type ":" VPC ",
   " PhysicalCo  nnectionId ":" pc - 2zeoaxkq3j  ot5p71qcnu  y ",
   " PeerLocati  on ":" XXX - XXBuilding -- XXXCity ",
   " CreationTi  me ":" 2017 - 12 - 13T02 : 28 : 42Z ",
   " Name ":" TEST ",
   " Status ":" Enabled ",
   " AdLocation ":" XXX -- XX - CabinetXXU  RoomXXXXX ",
   " EnabledTim  e ":" 2017 - 12 - 18T04 : 01 : 30Z ",
   " BusinessSt  atus ":" Normal ",
   " LineOperat  or ":" CT ",
   " PortNumber ":" 1 / 1 / 4 ",
   " AccessPoin  tId ":" ap - cn - beijing - dx - A ",
   " PortType ":" 100Base - T ",
   " Bandwidth ": 2
  }
 ]
}
}
```

Error codes

HTTP status code	Error code	Error message	Description
404	InvalidFilterKey.ValueNotSupported	Specified filter key is not supported: Filter.X.key	The filter key is not supported.

See common error codes.

14.4 ModifyPhysicalConnectionAttribute

Modifies the attributes of a physical connection.

Note the following before you call this action:

- If you want to modify the specification or the redundant physical connection ID, the corresponding physical connection must be in the Initial or Rejected status.
- You cannot modify the attributes of a physical connection that is in the Canceled, Allocating, AllocationFailed, or Terminated status.
- After modification, a physical connection in the Rejected status will change to the Initial status.

Debug

By using API Explorer, you can easily debug APIs, automatically generate SDK code examples, and quickly search for APIs.

Request parameters

Parameter	Type	Required?	Example value	Description
`Action`	String	Yes	ModifyPhysicalConnectionAttribute	The name of this action. Value: `ModifyPhysicalConnectionAttribute`
`PhysicalConnectionId`	String	Yes	pc-119mfjzm7	The ID of the physical connection.
`RegionId`	String	Yes	cn-shanghai	The region where the physical connection is located. To query the region ID, call `DescribeRegions`.
`CircuitCode`	String	No	longtel001	The circuit code provided by the carrier for the physical connection.
`ClientToken`	String	No	efefe566754h	A client token used to guarantee the idempotence of requests. This parameter value is generated by the client and must be unique. It must be 1 to 64 ASCII characters in length.

Parameter	Type	Required?	Example value	Description
`Description`	String	No	The description of the physical connection	The description of the physical connection. The description must be 2 to 256 characters in length. It must start with a letter, but cannot start with `http://` or `https://`.
`LineOperator`	String	No	CT	The carrier that provides the physical connection. Valid values: · `CT` : China Telecom · `CU` : China Unicom · `CM` : China Mobile · `CO` : Others in China · `Equinix` : Equinix · `Other` : Others outside China
`Name`	String	No	The name of the physical connection	The name of the physical connection. The name must be 2 to 128 characters in length and can contain letters, numbers, periods (.), underscores (_), and hyphens (-). The name must start with a letter. It cannot start with `http://` or `https://`.

Parameter	Type	Required?	Example value	Description
`PeerLocation`	String	No	Zhejiang Province---vfjdbg_21e	The geographic location of the on-premises data center.
`PortType`	String	No	E1 - 2M	The port type of the physical connection. Valid values: · `100Base-T`: 100 Mbps electrical port · `1000Base-T` (default): 1 Gbps electrical port · `1000Base-LX`: 1 Gbps single-mode optical port (10 km) · `10GBase-T`: 10 Gbps electrical port · `10GBase-LR`: 10 Gbps single-mode optical port (10 km)
`RedundantPhysicalConnectionId`	String	No	pc-119mfjzm7	The ID of the redundant physical connection. The redundant physical connection must be in the Allocated, Confirmed, or Enabled status.
`Bandwidth`	String	No	5	The bandwidth in Mbps of the physical connection. Value range: 2 to 10240.

Response parameters

Parameter	Type	Example value	Description
`RequestId`	String	013EE132-A109-4247-91B0-099A8FF49AD7	The ID of the request.

Examples

Request example

```
 https :// vpc . aliyuncs . com /? Action = ModifyPhys  icalConnec
 tionAttrib  ute
& PhysicalCo  nnectionId = pc - 119mfjzm7
& RegionId = cn - shanghai
&< CommonPara  meters >
```

Response example

- XML format

```
< ModifyPhys  icalConnec  tionAttrib  uteRespons  e >
  < RequestId > 8A6A5EC5 - 6F6C - 4906 - 9689 - 56ACE58A13  E0 "</
 RequestId >
</ ModifyPhys  icalConnec  tionAttrib  uteRespons  e >
```

- JSON format

```
{
    " RequestId ":" 8A6A5EC5 - 6F6C - 4906 - 9689 - 56ACE58A13  E0 "
}
```

Error codes

HTTP status code	Error code	Error message	Description
404	InvalidPhysicalConnectionId.NotFound	The PhysicalConnectionId provided does not exist in our records.	The specified physical connection does not exist.
400	InvalidPeerLocation.Malformd	The PeerLocation provided was invalid.	The value of the PeerLocation parameter is invalid.
400	InvalidPortType.Malformd	The PortType provided was invalid.	The specified port type is invalid.

HTTP status code	Error code	Error message	Description
400	InvalidDescription.Malformed	The specifid ?Description ? is not valid.	The format of the description is invalid. The source description can be 2 to 256 characters in length. It cannot start with http:// and https://.
400	InvalidName.Malformed	The specified ?Name? is not valid.	The name format is invalid.
400	InvalidStatus	invalid physical connection status.	The specified physical connection status is invalid.
400	InvalidBandwidth	invalid physical connection banwidth.	The specified physical connection bandwidth is invalid.
400	InvalidRedundantPhysicalConnection	redundant physical connection doesn't belong to current user.	The specified redundant physical connection does not belong to your account.
400	InvalidRedundantPhysicalConnectionStatus	invalid redundant physical connection status.	The status of the redundant physical connection is invalid.
400	InvalidCircuitCode.Malformed	circuitCode is illegal.	The specified circuit code is invalid.

See common error codes

14.5 TerminatePhysicalConnection

Terminates a physical connection after the physical connection is enabled.

The physical connection changes to the Terminating state after this API is called and changes to the Terminated state after the termination is completed.

Note the following before you terminate a physical connection:

- You can only terminate a physical connection that is in the Enabled state.

- Before terminating a physical connection, you must delete the Virtual Border Routers (VBRs) associated with the physical connection.

Debug

Use OpenAPI Explorer to perform debug operations and generate SDK code examples.

Request parameters

Parameter	Type	Required?	Example value	Description
`Action`	String	Yes	TerminatePhysicalConnection	The name of this action. Value: TerminatePhysicalConnection
`PhysicalConnectionId`	String	Yes	pc-119mfjzm7	The ID of the physical connection to be terminated.
`RegionId`	String	Yes	cn-hangzhou	The region of the physical connection. To query the region ID, call DescribeRegions.
`ClientToken`	String	No	02fb3da4-130e-11e9-8e44-0016e04115b	Optional. The client token. It is used to guarantee the idempotence of the request. The value of this parameter is generated by the client and is unique among different requests. It can contain up to 64 ASCII characters.

Response parameters

Parameter	Type	Example value	Description
RequestId	String	4EC47282-1B74-4534-BD0E-403F3EE64CAF	The request ID.

Examples

Request example

```
 https :// vpc . aliyuncs . com /? Action = TerminateP  hysicalCon
 nection
& PhysicalCo  nnectionId = pc - 119mfjzm7
& RegionId = cn - hangzhou
&< CommonPara  meters >
```

Response examples

`XML` format

```
< TerminateP  hysicalCon  nectionRes  ponse >
  < RequestId > 513E0A50 - 4F2D - 4CBE - BF35 - 40559DF65D  79 "
</ RequestId >
</ TerminateP  hysicalCon  nectionRes  ponse >
```

`JSON` format

```
{
 " RequestId ":" 513E0A50 - 4F2D - 4CBE - BF35 - 40559DF65D  79 "
}
```

Error codes

HTTP status code	Error code	Error message	Description
404	InvalidPhysicalConnectionId.NotFound	The PhysicalConnectionId provided does not exist in our records.	The specified physical connection does not exist.
400	Forbidden.NotAllowedInState	The request does not allow in this state.	The request cannot be processed because the status of the resource does not permit this action.

See common error codes.

14.6 EnablePhysicalConnection

Enables a physical connection in the Confirmed status. After being enabled, the physical connection changes to the Enabled status.

Note the following before you call this action:

- You can only enable a physical connection in the Confirmed status.
- The physical connection changes to the Enabled status after being enabled.

Debug

By using API Explorer, you can easily debug APIs, automatically generate SDK code examples, and quickly search for APIs.

Request parameters

Parameter	Type	Required?	Example value	Description
`Action`	String	Yes	EnablePhysicalConnection	The name of this action. Value: `EnablePhysicalConnection`
`PhysicalConnectionId`	String	Yes	pc-119mfjzm7	The ID of the physical connection.
`RegionId`	String	Yes	cn-shanghai	The region where the physical connection is located. To query the region ID, call `DescribeRegions`.
`ClientToken`	String	No	02fb3da4-130e-11e9-8e44-0016e04115b	A client token used to guarantee the idempotence of requests. This parameter value is generated by the client and must be unique. It must be 1 to 64 ASCII characters in length.

Response parameters

Parameter	Type	Example value	Description
RequestId	String	API-20365164-5b0d-460a-83c2-2189972b3349	The ID of the request.

Examples

Request example

```
https://vpc.aliyuncs.com/?Action=EnablePhysicalConnection
&PhysicalConnectionId=pc-119mfjzm7
&RegionId=cn-shanghai
&<CommonParameters>
```

Response example

- XML format

```
<EnablePhysicalConnectionResponse>
  <RequestId>0ED8D006-F706-4D23-88ED-E11ED28DCAC0</RequestId>
</EnablePhysicalConnectionResponse>
```

- JSON format

```
{
"RequestId":"0ED8D006-F706-4D23-88ED-E11ED28DCAC0"
}
```

Error codes

HTTP status code	Error code	Error message	Description
404	InvalidPhysicalConnectionId.NotFound	The PhysicalConnectionId provided does not exist in our records.	The specified physical connection does not exist.
400	Forbidden.NotAllowedInState	The request does not allow in this state.	The request cannot be processed because the status of the resource does not permit this action.

See common error codes

14.7 DeletePhysicalConnection

Deletes a physical connection.

You can only delete a physical connection in the Rejected, Canceled, AllocationFailed , or Terminated status.

Debug

By using API Explorer, you can easily debug APIs, automatically generate SDK code examples, and quickly search for APIs.

Request parameters

Parameter	Type	Required?	Example value	Description
`Action`	String	Yes	DeletePhysicalConnection	The name of this action. Value: `DeletePhysicalConnection`
`RegionId`	String	Yes	pc-119mfjzm7	The region where the physical connection is located. To query the region ID, call `DescribeRegions`.
`PhysicalConnectionId`	String	Yes	cn-shanghai	The ID of the physical connection.

Response parameters

Parameter	Type	Example value	Description
`RequestId`	String	2B3670CD-670E-4540-8C13-6DE929AEDD3B	The ID of the request.

Examples

Request example

```
https://vpc.aliyuncs.com/?Action=DeletePhysicalConnection
```

```
& PhysicalCo  nnectionId = pc - 119mfjzm7
& RegionId = cn - shanghai
&< CommonPara  meters >
```

Response example

- XML format

```
< DeletePhys  icalConnec  tionRespon  se >
  < RequestId > 0ED8D006 - F706 - 4D23 - 88ED - E11ED28DCA  C0 </
 RequestId >
</ DeletePhys  icalConnec  tionRespon  se >
```

- JSON format

```
{
 " RequestId ":" 0ED8D006 - F706 - 4D23 - 88ED - E11ED28DCA  C0 "
}
```

Error codes

HTTP status code	Error code	Error message	Description
404	InvalidPhysicalConnectionId.NotFound	The PhysicalConnectionId provided does not exist in our records.	The specified physical connection does not exist.
400	Forbidden.NotAllowedInState	The request does not allow in this state.	The request cannot be processed because the status of the resource does not permit this action.
400	InvalidPhysicalConnectionId.NotMatched	instance id not matched.	The instance IDs do not match.
400	Forbidden.VBRExists	vbr owner's vbr still exists.	A VBR still exists.
400	Forbidden.AssociateToVBR	The physical connection still associate to VBR.	The physical connection is already associated with a VBR.

See common error codes

14.8 ApplyPhysicalConnectionLOA

Apply for the LOA.

Debug

Perform a debug in OpenAPI Explorer. We recommend that you use OpenAPI Explorer. By using OpenAPI Explorer, you can call APIs, generate SDK code examples automatically, and search APIs, allowing you to quickly and easily get started with using APIs on the cloud.

Request parameters

Parameter	Type	Required?	Example value	Description
`Action`	String	Yes	ApplyPhysicalConnectionLOA	The action to perform. Valid value: ApplyPhysicalConnectionLOA.
`CompanyName`	String	Yes	company	The name of the company that requires the physical connection.
`ConstructionTime`	String	Yes	2019-02-28T16:00:00.000Z	The date and time when the data cable installation technician or representative will go to the installation site.
`InstanceId`	String	Yes	pc-bp1qrb3044eqixxxxxxxx	The instance ID of the physical connection interface.
`LineType`	String	Yes	SDH	The type of leased line.
`PeerLocation`	String	Yes	Hangzhou	The location where the leased line is deployed.
`RegionId`	String	Yes	cn-hangzhou	The ID of the region to which the physical connection interface belongs.

Parameter	Type	Required?	Example value	Description
Si	String	Yes	Alibaba Cloud	The name of the installation company.
Bandwidth	Integer	No	3	Optional. The bandwidth value of the physical connection.
ClientToken	String	No	A47BD386-7FDE-4xxx4-8D22-C62xxxxxxxx	Optional. The token used for client authentication.
LineOperator	String	No	CU	Optional. The service provider that provides the leased line.
PMInfo.N.PMCertificateNo	String	No	3210xxxxxxxxxxxxxx	Optional. The license number of the certificate held by the data cable installation technician or representative.
PMInfo.N.PMCertificateType	String	No	IDCard	Optional. The type of the certificate that the data cable installation technician or representative holds.
PMInfo.N.PMContactInfo	String	No	13200000000	Optional. The contact information of the data cable installation technician or representative.
PMInfo.N.PMGender	String	No	Male	Optional. The gender of the data cable installation technician or representative.
PMInfo.N.PMName	String	No	Mike	Optional. The name of the data cable installation technician or representative.

Response parameters

Parameter	Type	Example value	Description
RequestId	String	A47BD386-7FDE-42C4-8D22-C6223D18AA1C	The ID of the request.

Examples

Request example

```
 http ( s )://[ Endpoint ]/? CompanyNam  e = company
& Constructi  onTime = 2019 - 02 - 28T16 : 00 : 00 . 000Z
& InstanceId = pc - bp1qrb3044  eqixxxxxxx  x
& LineType = SDH
& PeerLocati  on = Hangzhou
& RegionId = cn - hangzhou
& Si = Alibaba   Cloud
&< CommonPara  meters >
```

Response examples

`XML` format

```
< ApplyPhysi  calConnect  ionLOA >
  < code > 200 </ code >
  < httpStatus  Code > 200 </ httpStatus  Code >
  < message > successful </ message >
  < requestId > A47BD386 - 7FDE - 42C4 - 8D22 - C6223D18AA  1C </
 requestId >
  < success > true </ success >
</ ApplyPhysi  calConnect  ionLOA >
```

`JSON` format

```
{
 " message ":" successful ",
 " httpStatus  Code ": 200 ,
 " requestId ":" A47BD386 - 7FDE - 42C4 - 8D22 - C6223D18AA  1C ",
 " code ":" 200 ",
 " success ": true
}
```

Error codes

Click here to view the error codes.

14.9 CompletePhysicalConnectionLOA

Reports information about the completed installation of the leased line.

Debug

Use OpenAPI Explorer to perform debug operations and generate SDK code examples.

Request parameters

Parameter	Type	Required?	Example value	Description
`Action`	String	Yes	CompletePhysicalConnectionLOA	The name of this action. Value: CompletePhysicalConnectionLOA
`InstanceId`	String	Yes	pc-bp10tvlhnwkwxxxxxxxxxx	The instance ID of the physical connection.
`LineCode`	String	Yes	aaa111	The code of the leased line.
`LineLabel`	String	Yes	bbb222	The label numbers of cables at the installation site.
`RegionId`	String	Yes	cn-hangzhou	The region of the physical connection.
`ClientToken`	String	No	F8983C74-E068-4509-B442-89xxxxxC8F43B	Optional. The token used for client authentication.

Response parameters

Parameter	Type	Example value	Description
RequestId	String	F8983C74-E068-4509-B442-89BD82C8F43B	The ID of the request.

Examples

Request example

```
 http ( s )://[ Endpoint ]/?  InstanceId = pc - bp10tvlhnw
 kwxxxxxxxx  xx
& LineCode = aaa111
& LineLabel = bbb222
& RegionId = cn - hangzhou
&< CommonPara  meters >
```

Response examples

`XML` format

```
< CompletePh  ysicalConn  ectionLOAR  esponse >
  < code > 200 </ code >
  < message > successful </ message >
  < requestId > 5FA3B04E - AEA0 - 4F89 - BF0D - 3FD71ED69B  F7 </
 requestId >
  < success > true </ success >
</ CompletePh  ysicalConn  ectionLOAR  esponse >
```

`JSON` format

```
{
 " message ":" successful ",
 " requestId ":" 5FA3B04E - AEA0 - 4F89 - BF0D - 3FD71ED69B  F7 ",
 " code ":" 200 ",
 " success ": true
}
```

Error codes

See common error codes..

14.10 CreatePhysicalConnectionOccupancyOrder

Creates an order for the initial installation fee.

Debug

Use OpenAPI Explorer to perform debug operations and generate SDK code examples.

Request parameters

Parameter	Type	Required?	Example value	Description
`Action`	String	Yes	CreatePhysicalConnectionOccupancyOrder	The name of this action. Value: CreatePhysicalConnectionOccupancyOrder
`PhysicalConnectionId`	String	Yes	pc-bp1hp0wr072f6ambni141	The instance ID of the physical connection.
`RegionId`	String	Yes	cn-hangzhou	The region of the physical connection.
`AutoPay`	Boolean	No	true	Optional. Indicates whether to pay automatically. Valid values: · true (default value): Automatic payment is enabled. Make sure that your account balance is sufficient. If the balance is insufficient, an abnormal order will be generated, which can only be voided. · false: Automatic payment is disabled.
`ClientToken`	String	No	CBCE910E-D396-4944-8764-B4047838B2D1	Optional. The client token used for authentication.

Parameter	Type	Required?	Example value	Description
InstanceChargeType	String	No	PostPaid	Optional. The billing method of the physical connection. Valid values: · PrePaid: Subscription. Make sure that your registered credit card is valid or you have sufficient balance in your PayPal account. · PostPaid (default): Pay-As-You-Go.
Period	Integer	No	1	Optional. The validity period of Subscription.
PricingCycle	String	No	Month	Optional. The unit cycle of Subscription. · Year · Month

Response parameters

Parameter	Type	Example value	Description
RequestId	String	CBCE910E-D396-4944-8764-B4047838B2D1	The ID of the request.

Examples

Request example

```
 http ( s )://[ Endpoint ]/?  Action = CreatePhys  icalConnec
 tionOccupa  ncyOrder
& PhysicalCo  nnectionId = pc - bp1hp0wr07  2f6ambni14  1
& RegionId = cn - hangzhou
&< CommonPara  meters >
```

Response examples

`XML` format

```
< CreatePhys  icalConnec  tionOccupa  ncyOrderRe  sponse >
  < code > 200 </ code >
  < data >
    < orderId > 2031673097  40138 </ orderId >
  </ data >
  < httpStatus  Code > 200 </ httpStatus  Code >
  < message > successful </ message >
  < requestId > CBCE910E - D396 - 4944 - 8764 - B4047838B2  D1 </
 requestId >
  < success > true </ success >
</ CreatePhys  icalConnec  tionOccupa  ncyOrderRe  sponse >
```

`JSON` format

```
{
 " message ":" successful ",
 " httpStatus  Code ": 200 ,
 " requestId ":" CBCE910E - D396 - 4944 - 8764 - B4047838B2  D1 ",
 " data ":{
  " orderId ": 2031673097  40138
 },
 " code ":" 200 ",
 " success ": true
}
```

Error codes

HTTP status code	Error code	Error message	Description
404	InvalidPhysicalConnectionId.NotFound	The PhysicalConnectionId provided does not exist in our records.	The specified physical connection does not exist.
400	Forbidden.NotAllowedInState	The request does not allow in this state.	The request cannot be processed because the status of the resource does not permit this action.

See common error codes..

14.11 CreatePhysicalConnectionSetupOrder

Creates an order for the resource occupation fee.

Debug

Use OpenAPI Explorer to perform debug operations and generate SDK code examples.

Request parameters

Parameter	Type	Required?	Example value	Description
`AccessPointId`	String	Yes	ap-cn-beijing-ft-A	The ID of the access point.
`Action`	String	Yes	CreatePhysicalConnectionSetupOrder	The name of this action. Value: CreatePhysicalConnectionSetupOrder
`LineOperator`	String	Yes	CT	The service provider that provides the leased line. Valid values: · CT: China Telecom · CU: China Unicom · CM: China Mobile · CO: Other service providers in Mainland China · Equinix: Equinix · Other: Other service providers outside Mainland China
`RegionId`	String	Yes	cn-shanghai	The region of the physical connection. To query the region ID, call DescribeRegions.
`AutoPay`	Boolean	No	true	Optional. Indicates whether to pay the fee automatically. Valid values: true | false

Parameter	Type	Required?	Example value	Description
ClientToken	String	No	318BB676-0A2B-43A0-9AD8-F1D34E93750F	Optional. The token used for client authentication.
PortType	String	No	100Base-T	Optional. The type of the physical connection port. Valid values: · 100Base-T: 100M electrical ports · 1000Base-T (default value): 1 Gigabit electrical ports · 1000Base-LX: 1 Gigabit single-mode optical ports (10 km) · 10GBase-T: 10GE electrical ports · 10GBase-LR: 10GE single-mode optical ports (10 km)
RedundantPhysicalConnectionId	String	No	pc-bp10zsv5ntpxxxxxxxxxx	Optional. The ID of the redundant physical connection. Its status must be Allocated, Confirmed, or Enabled.

Response parameters

Parameter	Type	Example value	Description
OrderId	String	202844382740728	The ID of the order.

Examples

Request example

```
 http ( s )://[ Endpoint ]/?  AccessPoin  tId = ap - cn - beijing - ft
 - A
& LineOperat  or = CT
```

```
& RegionId = cn - shanghai
&< CommonPara  meters >
```

Response examples

`XML` format

```
< CreatePhys  icalConnec  tionSetupO  rderRespon  se >
  < code > 200 </ code >
  < data >
    < orderId > 2032554009  60138 </ orderId >
  </ data >
  < httpStatus  Code > 200 </ httpStatus  Code >
  < message > successful </ message >
  < requestId > AA874147 - 4A58 - 41D4 - 95E2 - F2FFDAF417  A6 </
 requestId >
  < success > true </ success >
</ CreatePhys  icalConnec  tionSetupO  rderRespon  se >
```

`JSON` format

```
{
 " message ":" successful ",
 " httpStatus  Code ": 200 ,
 " requestId ":" AA874147 - 4A58 - 41D4 - 95E2 - F2FFDAF417  A6 ",
 " data ":{
  " orderId ": 2032554009  60138
 },
 " code ":" 200 ",
 " success ": true
}
```

Error codes

See common error codes..

14.12 DescribePhysicalConnectionLOA

Queries LOA information about a physical connection.

Debug

Use OpenAPI Explorer to perform debug operations and generate SDK code examples.

Request parameters

Parameter	Type	Required?	Example value	Description
`Action`	String	Yes	DescribePhysicalConnectionLOA	The name of this action. Value: DescribePhysicalConnectionLOA
`InstanceId`	String	Yes	pc-bp1ca4wca27exxxxxxxx	The instance ID of the physical connection.
`RegionId`	String	Yes	cn-hangzhou	The region of the physical connection.
`ClientToken`	String	No	318BB676-0A2B-43A0-9AD8-F1D34E93750F	Optional. The client token used for authentication.

Response parameters

Parameter	Type	Example value	Description
PhysicalConnectionLOAType			The LOA information of the physical connection.
CompanyLocalizedName	String	company	The company name that you set when you registered your account.
CompanyName	String	test1234	The name of the company that requires the leased line.
ConstructionTime	String	2019-02-26T08:00:00Z	The time when the data center cable installation technician or representative will go to the installation site.
InstanceId	String	pc-bp1ca4wca27exxxxxxxxx	The instance ID of the physical connection.

Parameter	Type	Example value	Description
LineCode	String	aaa111	The code of the leased line.
LineLabel	String	bbb222	The label numbers of the cables at the installation site.
LineType	String	MSTP	The type of the physical connection . Valid values: · MSTP · Other · SDH · MPLSVPN · FIBRE
LoaUrl	String	http://pconn-loa.oss-cn-shenzhen.aliyuncs.com/1993847644011928_pc-bp1ca4wca27ertsucaxn0_cn-hangzhou-dg-a01.pdf?Expires=1551164196&OSSAccessKeyId=dCrRKgLiFLLHAo6k&Signature=d/w0BARgZ5uJHXODnjpr1oKIEC4%3D	The URL used to download the LOA file.
PMInfo			The information about the data center cable installation technician or representative.
PMCertificateNo	String	12345671223	The certificate or licence number of the data center cable installation technician or representative.

Parameter	Type	Example value	Description
PMCertificateType	String	Other	The type of certificate or licence held by the data center cable installation technician or representative.
PMContactInfo	String	18910010000	The contact information of the data center cable installation technician or representative.
PMGender	String	Male	The gender of the data center cable installation technician or representative.
PMName	String	name	The name of the data center cable installation technician or representative.
SI	String	ctcu	The name of the data center cable installation company.
Status	String	Available	The status of the physical connection.
RequestId	String	318BB676-0A2B-43A0-9AD8-F1D34E93750F	The ID of the request.

Examples

Request example

```
 http ( s )://[ Endpoint ]/?  Action = DescribePh  ysicalConn
 ectionLOA
& InstanceId = pc - bp1ca4wca2  7exxxxxxxx
& RegionId = cn - hangzhou
&< CommonPara  meters >
```

Response examples

`XML` format

```
< DescribePh  ysicalConn  ectionLOAR  esponse >
  < code > 200 </ code >
  < data >
    < companyNam  e > test1234 </ companyNam  e >
    < constructi  onTime > 2019 - 02 - 26T08 : 00 : 00Z </ constructi
 onTime >
    < instanceId > pc - bp1ca4wca2  7ertsucaxn  0 </ instanceId >
    < LineType >  MSTP  </ lineType >
    < loaUrl > http :// pconn - loa . oss - cn - shenzhen . aliyuncs .
 com / 1993847644  011928_pc - bp1ca4wca2  7ertsucaxn  0_cn - hangzhou
 - dg - a01 . pdf ? Expires = 1551164196 & amp ; OSSAccessK  eyId =
 dCrRKgLiFL  LHAo6k & amp ; Signature = d / w0BARgZ5uJ  HXODnjpr1o
 KIEC4 % 3D </ loaUrl >
    < pmInfo >
      < nextPMInde  x > 1 </ nextPMInde  x >
      < PmCertific  ateNo >  1234567  </ pmCertific  ateNo >
      < pmCertific  ateType > Other </ pmCertific  ateType >
      < pmContactI  nfo > 1891001000  0 </ pmContactI  nfo >
      < pmGender > Male </ pmGender >
      < pmName > test </ pmName >
    </ pmInfo >
    < si > ctcu </ si >
    < status > Available </ status >
  </ data >
  < message > successful </ message >
  < requestId > 318BB676 - 0A2B - 43A0 - 9AD8 - F1D34E9375  0F </
 requestId >
  < success > true </ success >
</ DescribePh  ysicalConn  ectionLOAR  esponse >
```

`JSON` format

```
{
 " message ":" successful ",
 " requestId ":" 318BB676 - 0A2B - 43A0 - 9AD8 - F1D34E9375  0F ",
 " data ":{
  " lineType ":" MSTP ",
  " status ":" Available ",
  " pmInfo ":[
   {
    " pmContactI  nfo ":" 1891001000  0 ",
    " pmGender ":" Male ",
    " pmCertific  ateNo ":" 1234567 ",
    " PmCertific  ateType ": " Other  ",
    " nextPMInde  x ": 1 ,
    " pmName ":" test "
   }
  ],
  " instanceId ":" pc - bp1ca4wca2  7ertsucaxn  0 ",
  " constructi  onTime ":" 2019 - 02 - 26T08 : 00 : 00Z ",
  " companyNam  e ":" test1234 ",
  " si ":" ctcu ",
  " loaUrl ":" http :// pconn - loa . oss - cn - shenzhen . aliyuncs
 . com / 1993847644  011928_pc - bp1ca4wca2  7ertsucaxn  0_cn -
 hangzhou - dg - a01 . pdf ? Expires = 1551164196 & OSSAccessK  eyId =
 dCrRKgLiFL  LHAo6k & Signature = d / w0BARgZ5uJ  HXODnjpr1o  KIEC4 %
 3D "
 },
 " code ":" 200 ",
 " success ": true
```

```
}
```

Error codes

See common error codes..

15 VPN Gateway

15.1 CreateVpnGateway

Creates a VPN Gateway.

Debug

Use OpenAPI Explorer to perform debug operations and generate SDK code examples.

Request parameters

Parameter	Type	Required?	Example value	Description
`Action`	String	Yes	CreateVpnGateway	The name of this action. Value: CreateVpnGateway.
`Bandwidth`	Integer	Yes	5	The bandwidth of the VPN Gateway (in Mbps). Valid values: 5|10|20|50|100.
`RegionId`	String	Yes	cn-hangzhou	The ID of the region to which the VPN Gateway belongs To query the region ID, call DescribeRegions.
`VpcId`	String	Yes	vpc-bp1ub1yt9cvakoelj****	The ID of the VPC to which the VPN Gateway belongs.
`AutoPay`	Boolean	No	false	Indicates whether the VPN Gateway bill is paid automatically. Valid values: · true: The bill is paid automatically. · false (default): The bill is not paid automatically.

Parameter	Type	Required?	Example value	Description
`EnableIpsec`	Boolean	No	true	Indicates whether to enable the IPsec-VPN function. The IPsec-VPN function provides a site-to-site connection. You can create an IPsec tunnel to connect an on-premises data center to a VPC, or to connect two VPCs. Valid values: · true (default): The IPsec-VPN function is enabled. · false: The IPsec-VPN function is disabled.
`EnableSsl`	Boolean	No	true	Indicates whether to enable the SSL-VPN function. If this function is enabled, point-to-site VPN connection is provided and customer gateway configuration is not needed. Valid values: · true: The SSL-VPN function is enabled. · false (default): The SSL-VPN function is disabled.
`InstanceChargeType`	String	No	PREPAY	The billing method of the VPN Gateway. Valid values: POSTPAY: Pay-As-You-Go.

Parameter	Type	Required?	Example value	Description
`Name`	String	No	MYVPN	The name of the VPN Gateway. The default value is the ID of the VPN Gateway. The name must be 2 to 100 characters in length and contain letters, numbers, periods (.), underscores (_), and hyphens (-). The name must start with a letter. It cannot start with `http://` or `https://`.
`Period`	Integer	No	1	The validity period of a subscription. Valid values: 1~9|12|24|36. Note: This parameter is required if the value of InstanceChargeType is PREPAY.
`SslConnections`	Integer	No	2	The maximum number of clients allowed to connect simultaneously.

Response parameters

Parameter	Type	Example value	Description
Name	String	myVpn	The name of the VPN Gateway.
OrderId	Long	20224940022015	The ID of the order. Go to the console to complete the payment.

Parameter	Type	Example value	Description
RequestId	String	54B48E3D-DF70-471B-AA93-08E683A1B457	The ID of the request.
VpnGatewayId	String	vpn-bp1q8bgx4xnkm2ogj****	The ID of the VPN Gateway.

Examples

Request example

```
 http ( s )://[ Endpoint ]/?  Action = CreateVpnG  ateway
& Bandwidth = 5
& RegionId = cn - hangzhou
& VpcId = vpc - bp1ub1yt9c  vakoelj ****
&< CommonPara  meters >
```

Response example

`XML` format

```
< CreateVpnG  atewayResp  onse >
      < Name > myVpn </ Name >
      < VpnGateway  Id > vpn - bp1q8bgx4x  nkm2ogj ****</ VpnGateway
 Id >
      < RequestId > 54B48E3D - DF70 - 471B - AA93 - 08E683A1B4  57 </
 RequestId >
</ CreateVpnG  atewayResp  onse >
```

`JSON` format

```
{
 " CreateVpnG  atewayResp  onse ":{
  " Name ":" myVpn ",
  " VpnGateway  Id ":" vpn - bp1q8bgx4x  nkm2ogj ****",
  " RequestId ":" 54B48E3D - DF70 - 471B - AA93 - 08E683A1B4  57 "
 }
}
```

Errors

HTTP status code	Error code	Error message	Description
400	Resource.QuotaFull	The quota of resource is full.	The resource quota has been reached.

For a list of error codes, visit the API Error Center.

15.2 DescribeVpnGateways

Queries VPN Gateways.

Debug

By using API Explorer, you can easily debug APIs, automatically generate SDK code examples, and quickly search for APIs.

Request parameters

Parameter	Type	Required?	Example value	Description
`Action`	String	Yes	DescribeVpnGateways	The name of this action. Value: `DescribeVpnGateways`
`RegionId`	String	Yes	cn-hangzhou	The ID of the region to which the VPN Gateway belongs. To query the region ID, call `DescribeRegions`.
`BusinessStatus`	String	No	Normal	The status of the VPN Gateway. Valid values: `Normal` | `FinancialLocked`
`PageNumber`	Integer	No	1	The number of pages to return. Default value: `1` .
`PageSize`	Integer	No	10	The number of rows per page. Maximum value: `50` . Default value: `10` .

Parameter	Type	Required?	Example value	Description
Status	String	No	init	The status of the VPN Gateway. Valid values: · init · provisioning · active · updating · deleting
VpcId	String	No	vpc-bp1ub1yt9cvakoelj1y9c	The ID of the VPC to which the VPN gateway belongs.
VpnGatewayId	String	No	vpn-bp1q8bgx4xnkm2ogj0fiu	The ID of the VPN Gateway.

Response parameters

Parameter	Type	Example value	Description
VpnGateways	N/A	N//A	A list of VPN Gateways.
└VpnGatewayId	String	vpn-bp1q8bgx4xnkm2ogj0fiu	The ID of the VPN Gateway.
└VpcId	String	vpc-bp1ub1yt9cvakoelj1y9c	The ID of the VPC to which the VPN Gateway belongs.
└VSwitchId	String	vsw-bp1y9ovl1cu9ou4tvma0l	The ID of the VSwitch to which the VPN Gateway belongs.
└InternetIp	String	116.62.69.xxx	The public IP address of the VPN Gateway.
└CreateTime	Long	1515383700000	The time at which the VPN Gateway was created.
└EndTime	Long	1518105600000	The time at which the VPN Gateway is to expire.

Parameter	Type	Example value	Description
└Spec	String	5M	The peak bandwidth of the VPN Gateway.
└Name	String	test	The name of the VPN Gateway.
└Description	String	test	The description of the VPN Gateway .
└Status	String	active	The status of the VPN Gateway.
└BusinessStatus	String	Normal	The business status of the VPN Gateway.
└ ChargeType	String	Prepay	The billing type.
└IpsecVpn	String	enable	Indicates whether the IPSec-VPN function is enabled.
└ SslMaxConnections	Long	5	The maximum number of SSL-VPN clients allowed to connect.
└SslVpn	String	enable	Indicates whether the SSL-VPN function is enabled.
TotalCount	Integer	1	The number of queries entries.
PageNumber	Integer	1	The current page number.
PageSize	Integer	10	The number of entries per page.
RequestId	String	DF11D6F6-E35A-41C3-9B20-6FC8A901FE65	The ID of the request.

Examples

Request example

```
 https :// vpc . aliyuncs . com /? Action = DescribeVp  nGateways
& RegionId = cn - hangzhou
```

```
&< CommonPara  meters >
```

Response example

- **XML format**

```
< DescribeVp  nGatewaysR  esponse >
  < PageNumber > 1 </ PageNumber >
  < TotalCount > 1 </ TotalCount >
  < PageSize > 10 </ PageSize >
  < VpnGateway  s >
    < VpnGateway >
      < Status > active </ Status >
      < VpnGateway  Id > vpn - bp1q8bgx4x  nkm2ogj0fi  u </
 VpnGateway  Id >
      < BusinessSt  atus > Normal </ BusinessSt  atus >
      < Spec > 5M </ Spec >
      < CreateTime > 1492753580  000 </ CreateTime >
      < InternetIp > 116 . 62 . 69 . xxx </ InternetIp >
      < EndTime > 1495382400  000 </ EndTime >
      < VSwitchId > vsw - bp1y9ovl1c  u9ou4tvma0  l </ VSwitchId >
      < VpcId > vpc - bp1ub1yt9c  vakoelj1y9  c </ VpcId >
    </ VpnGateway >
  </ VpnGateway  s >
  < RequestId > DF11D6F6 - E35A - 41C3 - 9B20 - 6FC8A901FE  65 </
 RequestId >
</ DescribeVp  nGatewaysR  esponse >
```

- **JSON format**

```
{
 " PageNumber ": 1 ,
 " TotalCount ": 1 ,
 " PageSize ": 10 ,
 " VpnGateway  s ":{
  " VpnGateway ":[
   {
    " Status ":" active ",
    " VpnGateway  Id ":" vpn - bp1q8bgx4x  nkm2ogj0fi  u ",
    " Spec ":" 5M ",
    " BusinessSt  atus ":" Normal ",
    " CreateTime ": 1492753580  000 ,
    " InternetIp ":" 116 . 62 . 69 . xxx ",
    " EndTime ": 1495382400  000 ,
    " VSwitchId ":" vsw - bp1y9ovl1c  u9ou4tvma0  l ",
    " VpcId ":" vpc - bp1ub1yt9c  vakoelj1y9  c "
   }
  ]
 },
 " RequestId ":" B2CD1315 - CA2B - 47B1 - 9DA5 - 8F1D69C48E  82 "
```

```
}
```

Error codes

HTTP status code	Error code	Error message	Description
403	Forbbiden. SubUser	User not authorized to operate on the specified resource as your account is created by another user.	You are not authorized to operate on this resource . Please apply for the permission and try again.
403	Forbidden	User not authorized to operate on the specified resource.	You are not authorized to operate on this resource . For more information, open a ticket.

See common error codes

15.3 DescribeVpnGateway

Queries the detailed information of a VPN Gateway.

Debug

By using API Explorer, you can easily debug APIs, automatically generate SDK code examples, and quickly search for APIs.

Request parameters

Parameter	Type	Required?	Example value	Description
`Action`	String	Yes	DescribeVpnGateway	The name of this action. Value: `DescribeVpnGateways`
`RegionId`	String	Yes	cn-shanghai	The ID of the region to which the VPN Gateway belongs. To query the region ID, call `DescribeRegions`.

Parameter	Type	Required?	Example value	Description
`VpnGatewayId`	String	Yes	vpn-bp1q8bgx4xnkm2ogj0fiu	The ID of the VPC to which the VPN Gateway belongs.

Response parameters

Parameter	Type	Example value	Description
VpnGatewayId	String	vpn-bp1q8bgx4xnkm2ogj0fiu	The ID of the VPN Gateway.
VpcId	String	vpc-23rsxdfxxxxxxxxxxxxx	The ID of the VPC to which the VPN Gateway belongs.
VSwitchId	String	vsw-bp1y9ovl1cu9ou4tvma0l	The ID of the VSwitch to which the VPN Gateway belongs.
InternetIp	String	116.62.222.28	The public IP address.
CreateTime	Long	1495382400000	The time at which the VPN Gateway was created.
EndTime	Long	1495382400000	The time at which the VPN Gateway is to expire.
Spec	String	5	The specification of the VPN Gateway.
Name	String	vpngateway name	The name of the VPN Gateway.
Description	String	vpngateway description	The description of the VPN Gateway.
Status	String	init	The status of the VPN Gateway.
BusinessStatus	String	Normal	The business status of the VPN Gateway.

Parameter	Type	Example value	Description
ChargeType	String	PayByTraffic	The payment type.
IpsecVpn	String	enable	Indicates whether the IPsec-VPN function is enabled.
RequestId	String	DE77A7F3-3B74-41C0-A5BC-CAFD188C28B6	The ID of the request.
SslMaxConnections	Long	5	The maximum number of concurrent SSL-VPN connections.
SslVpn	String	enable	Indicates whether the SSL-VPN function is enabled.

Examples

Request example

```
 https :// vpc . aliyuncs . com /? Action = DescribeVp  nGateway
& RegionId = cn - shanghai
& VpnGateway  Id = vpn - bp1q8bgx4x  nkm2ogj0fi  u
&< CommonPara  meters >
```

Response example

- XML format

```
< DescribeVp  nGatewayRe  sponse >
  < Status > active </ Status >
  < VpnGateway  Id > vpn - bp1q8bgx4x  nkm2ogj0fi  u </ VpnGateway
 Id >
  < Spec > 5M </ Spec >
  < BusinessSt  atus > Normal </ BusinessSt  atus >
  < RequestId > 98C99F30 - A3D2 - 42E1 - AC75 - 0C882FBE92  F7 </
 RequestId >
  < CreateTime > 1492753580  000 </ CreateTime >
  < InternetIp > 116 . 62 . 69 . 64 </ InternetIp >
  < EndTime > 1495382400  000 </ EndTime >
  < VSwitchId > vsw - bp1y9ovl1c  u9ou4tvma0  l </ VSwitchId >
  < VpcId > vpc - bp1ub1yt9c  vakoelj1y9  c </ VpcId >
</ DescribeVp  nGatewayRe  sponse >
```

- JSON format

```
{
 " Status ":" active ",
 " VpnGateway  Id ":" vpn - bp1q8bgx4x  nkm2ogj0fi  u ",
 " Spec ":" 5M ",
```

```
 " BusinessSt  atus ":" Normal ",
 " RequestId ":" E98A9651 - 7098 - 40C7 - 8F85 - C818D1EBBA  85 ",
 " CreateTime ": 1492753580  000 ,
 " InternetIp ":" 116 . 62 . 69 . 64 ",
 " EndTime ": 1495382400  000 ,
 " VSwitchId ":" vsw - bp1y9ovl1c  u9ou4tvma0  l ",
 " VpcId ":" vpc - bp1ub1yt9c  vakoelj1y9  c "
}
```

Error codes

HTTP status code	Error code	Error message	Description
403	Forbbiden.SubUser	User not authorized to operate on the specified resource as your account is created by another user.	You are not authorized to operate on this resource. Please apply for the permission and try again.
403	Forbidden	User not authorized to operate on the specified resource.	You are not authorized to operate on this resource. For more information, open a ticket.
404	InvalidVpnGatewayInstanceId.NotFound	The specified vpn gateway instance id does not exist.	The specified VPN connection does not exist. Check if the VPN link is correct.

See common error codes

15.4 DeleteVpnGateway

Deletes a VPN Gateway.

> Note:
> You cannot delete a VPN Gateway associated with an IPsec connection.

Debug

By using API Explorer, you can easily debug APIs, automatically generate SDK code examples, and quickly search for APIs.

Request parameters

Parameter	Type	Required?	Example value	Description
`Action`	String	Yes	DeleteVpnGateway	The name of this action. Value: `DeleteVpnGateway`
`RegionId`	String	Yes	cn-hangzhou	The ID of the region to which VPN Gateway belongs. To query the region ID, call `DescribeRegions`.
`VpnGatewayId`	String	Yes	vpn-bp1q8bgx4xnkm2ogj0fiu	The ID of the VPN Gateway.
`ClientToken`	String	No	02fb3da4-130e-11e9-8e44-0016e04115b	A client token used to guarantee the idempotence of requests. This parameter value is generated by the client and must be unique. It must be 1 to 64 ASCII characters in length.

Response parameters

Parameter	Type	Example value	Description
`RequestId`	String	>0ED8D006-F706-4D23-88ED-E11ED28DCAC0	The ID of the request.

Examples

Request example

```
https://vpc.aliyuncs.com/?Action=DeleteVpnGateway
&RegionId=cn-hangzhou
&VpnGatewayId=vpn-bp1q8bgx4xnkm2ogj0fiu
```

```
&< CommonPara  meters >
```

Response example

- XML format

```
< DeleteNatG  atewayResp  onse >
  < RequestId > 0ED8D006 - F706 - 4D23 - 88ED - E11ED28DCA  C0 </
 RequestId >
</ DeleteNatG  atewayResp  onse >
```

- JSON format

```
{
 " RequestId ":" 0ED8D006 - F706 - 4D23 - 88ED - E11ED28DCA  C0 "
}
```

Error codes

HTTP status code	Error code	Error message	Description
403	Forbbiden. SubUser	User not authorized to operate on the specified resource as your account is created by another user.	You are not authorized to operate on this resource.
403	Forbidden	User not authorized to operate on the specified resource.	You are not authorized to operate on this resource . For more information, open a ticket.
404	InvalidVpn GatewayIns tanceId. NotFound	The specified vpn gateway instance id does not exist.	The specified VPN Gateway does not exist.
403	ForbiddenR elease	Forbidden to release a prepaid instance within validity period	You cannot release a Subscription instance before the expiration date.
400	VpnGateway. Configuring	The specified service is configuring.	The specified service is being configured. Please try again later.

See common error codes

15.5 CreateCustomerGateway

Creates a customer gateway.

Debug

By using API Explorer, you can easily debug APIs, automatically generate SDK code examples, and quickly search for APIs.

Request parameters

Parameter	Type	Required?	Example value	Description
`Action`	String	Yes	CreateCustomerGateway	The name of this action. Value: `CreateCustomerGateway`
`IpAddress`	String	Yes	116.62.222.xxx	The IP address of the customer gateway.
`RegionId`	String	Yes	cn-shanghai	The ID of the region to which the customer gateway belongs. To query the region ID, call`DescribeRegions`.
`ClientToken`	String	No	02fb3da4-130e-11e9-8e44-0016e04115b	A client token used to guarantee the idempotence of requests. This parameter value is generated by the client and must be unique. It must be 1 to 64 ASCII characters in length.

Parameter	Type	Required?	Example value	Description
`Description`	String	No	customer gateway	The description of the customer gateway. The description must be 2 to 256 characters in length. It must start with an English letter. It cannot start with `http://` or `https://`.
`Name`	String	No	Gateway	The name of the customer gateway. The name must be 2 to 128 characters in length and can contain letters, numbers. periods (.), underscores (_), and hyphens (-). The name must start with a letter. It cannot start with `http://` or `https://`.

Response parameters

Parameter	Type	Example value	Description
CustomerGatewayId	String	cgw-bp1aw0a5nfff03xp1pcqc	The ID of the customer gateway.
IpAddress	String	100.1.1.2	The IP address of the customer gateway.
Name	String	test	The name of the customer gateway.
Description	String	test	The description of the customer gateway.

Parameter	Type	Example value	Description
CreateTime	Long	1493363486000	The time at which the customer gateway was created.
RequestId	String	cgw-bp1aw0a5nf ff03xp1pcqc	The ID of the request.

Examples

Request example

```
 https :// vpc . aliyuncs . com /? Action = CreateCust  omerGatewa  y
& IpAddress = 116 . 62 . 222 . xxx
& RegionId = cn - shanghai
&< CommonPara  meters >
```

Response example

- XML format

```
< CreateCust  omerGatewa  yResponse >
  < CustomerGa  tewayId > cgw - bp1aw0a5nf  ff03xp1pcq  c </
 CustomerGa  tewayId >
  < RequestId > 185E81B1 - 3916 - 4667 - B48F - C52409B33F  2B </
 RequestId >
  < CreateTime > 1493363486  000 </ CreateTime >
  < IpAddress > 100 . 1 . 1 . 2 </ IpAddress >
</ CreateCust  omerGatewa  yResponse >
```

- JSON format

```
{
 " CustomerGa  tewayId ":" cgw - bp1jrawp82  av6bws9h2u  t ",
 " RequestId ":" D32B3C26 - 6C6C - 4988 - 93E9 - D2A6444CE6  AE ",
 " CreateTime ": 1493363599  000 ,
 " IpAddress ":" 100 . 1 . 1 . 2 "
}
```

Error codes

HTTP status code	Error code	Error message	Description
403	Forbbiden. SubUser	User not authorized to operate on the specified resource as your account is created by another user.	You are not authorized to operate on this resource . Please apply for the permission and try again.

HTTP status code	Error code	Error message	Description
403	Forbidden	User not authorized to operate on the specified resource.	You are not authorized to operate on this resource . For more information, open a ticket.
400	InvalidIpAddress .AlreadyExist	Specified IpAddress is already exist.	The specified IP address already exists.
400	InvalidIpAddress .WrongFormat	Specified IpAddress is invalid.	The IP address is invalid.
400	InvalidName	The name is not valid	The name format is invalid.
400	InvalidDes cription	The description is not valid	The description format is invalid.
400	Resource. QuotaFull	The quota of resource is full	The resource quota has been reached.

See common error codes

15.6 DescribeCustomerGateways

Queries customer gateways.

Debug

By using API Explorer, you can easily debug APIs, automatically generate SDK code examples, and quickly search for APIs.

Request parameters

Parameter	Type	Required?	Example value	Description
`Action`	String	Yes	DescribeCu stomerGate ways	The name of this action. Value: `DescribeCu stomerGate ways`

Parameter	Type	Required?	Example value	Description
`RegionId`	String	Yes	cn-shanghai	The ID of the region to which the customer gateway belongs. To query the region ID, call `DescribeRegions`.
`CustomerGatewayId`	String	No	vpn-bp1q8bgx4xnkm2ogj0fiu	The ID of the customer gateway.
`PageNumber`	Integer	No	1	The number of pages to return. Default value: `1` .
`PageSize`	Integer	No	10	The number of rows per page. Maximum value: `50` . Default value: `10` .

Response parameters

Parameter	Type	Example value	Description
CustomerGateways	N/A	N/A	A list of customer gateways.
└CustomerGatewayId	String	cgw-bp1pvpl9r9adju6l5nxck	The ID of the customer gateway.
└Name	String	test	The name of the customer gateway.
└Description	String	test	The description of the customer gateway.
└IpAddress	String	139.196.32.xxx	The IP address of the customer gateway.
└CreateTime	Long	1492747187000	The time at which the customer gateway was created.

Parameter	Type	Example value	Description
TotalCount	Integer	1	The number of queried entries.
PageNumber	Integer	1	The current page number.
PageSize	Integer	10	The number of entries per page.
RequestId	String	5BE01CD7-5A50-472D-AC14-CA181C5C03BE	The ID of the request.

Examples

Request example

```
 https :// vpc . aliyuncs . com /? Action = DescribeCu  stomerGate
 ways
& RegionId = cn - shanghai
&< CommonPara  meters >
```

Response example

- XML format

```
< DescribeCu  stomerGate  waysRespon  se >
  < PageNumber > 1 </ PageNumber >
  < TotalCount > 1 </ TotalCount >
  < PageSize > 10 </ PageSize >
  < RequestId > 5BE01CD7 - 5A50 - 472D - AC14 - CA181C5C03  BE </
 RequestId >
  < CustomerGa  teways >
    < CustomerGa  teway >
      < Name > test </ Name >
      < CustomerGa  tewayId > cgw - bp1pvpl9r9  adju6l5nxc  k </
 CustomerGa  tewayId >
      < CreateTime > 1492747187  000 </ CreateTime >
      < IpAddress > 139 . 196 . 32 . xxx </ IpAddress >
    </ CustomerGa  teway >
  </ CustomerGa  teways >
</ DescribeCu  stomerGate  waysRespon  se >
```

- JSON format

```
{
 " PageNumber ": 1 ,
 " TotalCount ": 1 ,
 " PageSize ": 10 ,
 " RequestId ":" E82612A9 - CB90 - 4D7E - B394 - 1DB7F6509B  29 ",
 " CustomerGa  teways ":{
  " CustomerGa  teway ":[
   {
    " CustomerGa  tewayId ":" cgw - bp1pvpl9r9  adju6l5nxc  k ",
    " Name ":" test ",
```

```
      " CreateTime ": 1492747187  000 ,
      " IpAddress ":" 139 . 196 . 32 . xxx "
    }
   ]
  }
 }
```

Error codes

HTTP status code	Error code	Error message	Description
403	Forbbiden. SubUser	User not authorized to operate on the specified resource as your account is created by another user.	You are not authorized to operate on this resource . Please apply for the permission and try again.
403	Forbidden	User not authorized to operate on the specified resource.	You are not authorized to operate on this resource . For more information, open a ticket.

See common error codes

15.7 DescribeCustomerGateway

Queries the detailed information of a customer gateway.

Debug

By using API Explorer, you can easily debug APIs, automatically generate SDK code examples, and quickly search for APIs.

Request parameters

Parameter	Type	Required?	Example value	Description
`Action`	String	Yes	DescribeCustomerGateway	The name of this action. Value: `DescribeCustomerGateway`
`CustomerGatewayId`	String	Yes	vpn-bp1q8bgx4xnkm2ogj0fiu	The ID of the customer gateway .

Parameter	Type	Required?	Example value	Description
`RegionId`	String	Yes	cn-shanghai	The ID of the region to which the customer gateway belongs. To query the region ID, call `DescribeRegions`.

Response parameters

Parameter	Type	Example value	Description
CustomerGatewayId	String	cgw-bp1pvpl9r9adju6l5nxck	The ID of the customer gateway.
Name	String	test	The name of the customer gateway.
Description	String	test	The description of the customer gateway.
IpAddress	String	139.196.32.xxx	The IP address of the customer gateway.
RequestId	String	99506ECB-218F-45A5-AE8E-79518451F615	The ID of the request.
CreateTime	Long	1492747187000	The time at which the customer gateway was created.

Examples

Request example

```
https :// vpc . aliyuncs . com /? Action = DescribeCu  stomerGate
way
& CustomerGa  tewayId = vpn - bp1q8bgx4x  nkm2ogj0fi  u
& RegionId = cn - shanghai
&< CommonPara  meters >
```

Response example

- XML format

```
< DescribeCu  stomerGate  wayRespons  e >
```

```
  < Name > test </ Name >
  < CustomerGa  tewayId > cgw - bp1pvpl9r9  adju6l5nxc  k </
 CustomerGa  tewayId >
  < CreateTime > 1492747187  000 </ CreateTime >
  < RequestId > 99506ECB - 218F - 45A5 - AE8E - 79518451F6  15 </
 RequestId >
  < IpAddress > 139 . 196 . 32 . xxx </ IpAddress >
</ DescribeCu  stomerGate  wayRespons  e >
```

- JSON format

```
{
 " Name ":" test ",
 " CustomerGa  tewayId ":" cgw - bp1pvpl9r9  adju6l5nxc  k ",
 " CreateTime ": 1492747187  000 ,
 " RequestId ":" A0457BC9 - 6C0F - 4437 - AB9D - FB2EABC1D6  A2 ",
 " IpAddress ":" 139 . 196 . 32 . xxx "
}
```

Error codes

HTTP status code	Error code	Error message	Description
403	Forbbiden.SubUser	User not authorized to operate on the specified resource as your account is created by another user.	You are not authorized to operate on this resource. Please apply for the permission and try again later.
403	Forbidden	User not authorized to operate on the specified resource.	You are not authorized to operate on this resource. For more information, open a ticket.
404	InvalidCustomerGatewayInstanceId.NotFound	The specified customer gateway instance id does not exist.	The specified instance does not exist.

See common error codes

15.8 DeleteCustomerGateway

Deletes a customer gateway.

Debug

By using API Explorer, you can easily debug APIs, automatically generate SDK code examples, and quickly search for APIs.

Request parameters

Parameter	Type	Required?	Example value	Description
`Action`	String	Yes	DeleteCustomerGateway	The name of this action. Value: `DeleteCustomerGateway`
`CustomerGatewayId`	String	Yes	vpn-bp1q8bgx4xnkm2ogj0fiu	The ID of the customer gateway.
`RegionId`	String	Yes	cn-shanghai	The ID of the region to which the customer gateway belongs. To query the region ID, call `DescribeRegions`.
`ClientToken`	String	No	02fb3da4-130e-11e9-8e44-0016e04115b	A client token used to guarantee the idempotence of requests. This parameter value is generated by the client and must be unique. It must be 1 to 64 ASCII characters in length.

Response parameters

Parameter	Type	Example value	Description
`RequestId`	String	606998F0-B94D-48FE-8316-ACA81BB230DA	The ID of the request.

Examples

Request example

```
https://vpc.aliyuncs.com/?Action=DeleteCustomerGateway
&CustomerGatewayId=vpn-bp1q8bgx4xnkm2ogj0fiu
&RegionId=cn-shanghai
```

```
&< CommonPara  meters >
```

Response example

- XML format

```
< DeleteCust  omerGatewa  yResespons  e >
  < RequestId > 606998F0 - B94D - 48FE - 8316 - ACA81BB230  DA </
 RequestId >
</ DeleteCust  omerGatewa  yResespons  e >
```

- JSON format

```
{
 " RequestId ":" 606998F0 - B94D - 48FE - 8316 - ACA81BB230  DA "
}
```

Error codes

HTTP status code	Error code	Error message	Description
403	Forbbiden. SubUser	User not authorized to operate on the specified resource as your account is created by another user.	You are not authorized to operate on this resource . Please apply for the permission and try again later.
403	Forbidden	User not authorized to operate on the specified resource.	You are not authorized to operate on this resource . For more information, open a ticket.
404	InvalidCus tomerGatew ayInstanceId. NotFound	The specified customer gateway instance id does not exist.	The specified instance does not exist.

See common error codes

15.9 ModifyCustomerGatewayAttribute

Modifies the name and description of a customer gateway.

Debug

By using API Explorer, you can easily debug APIs, automatically generate SDK code examples, and quickly search for APIs.

Request parameters

Parameter	Type	Required?	Example value	Description
`Action`	String	Yes	ModifyCustomerGatewayAttribute	The name of this action. Value: `ModifyCustomerGatewayAttribute`
`CustomerGatewayId`	String	Yes	vpn-bp1q8bgx4xnkm2ogj0fiu	The ID of the region to which the customer gateway belongs.
`RegionId`	String	Yes	cn-shanghai	The region to which the customer gateway belongs. To query the region ID, call `DescribeRegions`.
`ClientToken`	String	No	02fb3da4-130e-11e9-8e44-0016e04115b	A client token used to guarantee the idempotence of requests. This parameter value is generated by the client and must be unique. It must be 1 to 64 ASCII characters in length.
`Description`	String	No	test	The description of the customer gateway. The description can must be 2 to 256 characters in length. It must start with an English letter, but cannot start with `http://` or `https://`.

Parameter	Type	Required?	Example value	Description
`Name`	String	No	test	The name of the customer gateway. The name must be 2 and 128 characters in length and can contain letters, numbers, periods (.), underscores (_), and hyphens (-). The name must start with a letter. It cannot start with `http://` or `https://`.

Response parameters

Parameter	Type	Example value	Description
CustomerGatewayId	String	cgw-bp1pvpl9r9adju6l5nxck	The ID of the customer gateway.
Name	String	test	The name of the customer gateway.
Description	String	test	The description of the customer gateway.
IpAddress	String	139.196.32.167	The IP address of the customer gateway.
CreateTime	Long	1492747187000	The time at which the customer gatway was created.
RequestId	String	E61293C8-AF07-4E87-A272-542680038F93	The ID of the request.

Examples

Request example

```
 https :// vpc . aliyuncs . com /? Action = ModifyCust  omerGatewa
 yAttribute
& CustomerGa  tewayId = vpn - bp1q8bgx4x  nkm2ogj0fi  u
& RegionId = cn - shanghai
& Name = test
&< CommonPara  meters >
```

Response example

- XML format

```
< ModifyCust  omerGatewa  yAttribute  Response >
  < CustomerGa  tewayId > cgw - bp1pvpl9r9  adju6l5nxc  k </
 CustomerGa  tewayId >
  < RequestId > E61293C8 - AF07 - 4E87 - A272 - 542680038F  93 </
 RequestId >
  < CreateTime > 1492747187  000 </ CreateTime >
  < IpAddress > 139 . 196 . 32 . 167 </ IpAddress >
</ ModifyCust  omerGatewa  yAttribute  Response >
```

- JSON format

```
{
 " CustomerGa  tewayId ":" cgw - bp1pvpl9r9  adju6l5nxc  k ",
 " CreateTime ": 1492747187  000 ,
 " RequestId ":" 8AA5CE21 - 2E6A - 4530 - BDF5 - F055849476  E6 ",
 " IpAddress ":" 139 . 196 . 32 . 167 "
}
```

Error codes

HTTP status code	Error code	Error message	Description
403	Forbbiden. SubUser	User not authorized to operate on the specified resource as your account is created by another user.	You are not authorized to operate on this resource . Please apply for the permission and try again.
403	Forbidden	User not authorized to operate on the specified resource.	You are not authorized to operate on this resource . For more information, open a ticket.
404	InvalidCustomerGatewayInstanceId. NotFound	The specified customer gateway instance id does not exist.	The specified instance does not exist.
400	InvalidName	The name is not valid	The name format is invalid.

HTTP status code	Error code	Error message	Description
400	InvalidDescription	The description is not valid	The description format is invalid.

See common error codes

15.10 DescribeVpnConnection

Queries the detailed information of an IPsec connection.

Debug

By using API Explorer, you can easily debug APIs, automatically generate SDK code examples, and quickly search for APIs.

Request parameters

Parameter	Type	Required?	Example value	Description
`Action`	String	Yes	DescribeVpnConnection	The name of this action. Value: `DescribeVpnConnection`
`RegionId`	String	Yes	cn-hangzhou	The ID of the region to which the IPsec connection belongs. To query the region ID, call `DescribeRegions`.
`VpnConnectionId`	String	Yes	vco-bp1bbi27hojx80nck9k1i	The ID of the IPsec connection.

Response parameters

Parameter	Type	Example value	Description
VpnConnectionId	String	vco-bp1bbi27hojx80nck9k1i	The ID of the IPsec connection.

Parameter	Type	Example value	Description
CustomerGatewayId	String	cgw-bp1mvj4g9kogwwcxknfuv	The ID of the customer gateway.
VpnGatewayId	String	vpn-bp1q8bgx4xnkm2ogj0fiu	The ID of the VPN Gateway.
Name	String	ipsec1	The name of the IPsec connection.
LocalSubnet	String	1.1.1.0/24,1.1.2.0/24	The CIDR block of the VPC.
RemoteSubnet	String	1.1.1.0/24,1.1.2.0/24	The CIDR block of the on-premises data center.
CreateTime	Long	1492753817000	The time when the IPsec connection was created.
Status	String	ike_sa_not_established	The connection status. Valid values: · ike_sa_not_established: The phase one negotiation failed. · ike_sa_established: The phase one negotiation succeeded. · ipsec_sa_not_established: The phase two negotiation failed. · ipsec_sa_established: The phase two negotiation succeeded.
EffectImmediately	Boolean	true	Indicates whether the IPsec connection takes effect immediately. · true: Reconnection is triggered when there is a change to the network configuration. · false: Reconnection is triggered when traffic is detected over the network. Reconnection may cause intermittent disconnection.
IkeConfig	N/A	N/A	Configurations of phase one negotiation.

Parameter	Type	Example value	Description
└IkeAuthAlg	String	sha1	The IKE authentication algorithm. Both SHA-1 and MD5 are supported .
└IkeEncAlg	String	aes	The IKE encryption algorithm.
└IkeLifetime	Long	86400	The IKE life time.
└IkeMode	String	main	The IKE mode. Both the main mode and aggressive mode are supported . The main mode features high security. If NAT traversal is enabled , we recommend that you select the aggressive mode.
└IkePfs	String	group2	The DH group.
└IkeVersion	String	ikev1	The IKE version.
└LocalId	String	116.62.69.64	The local ID. It is the IP address of the VPN Gateway by default. Both FQDN and IP formats are supported .
└Psk	String	pgw6dy7d1i 8in7x5	The pre-shared key.
└RemoteId	String	139.196.32.167	The peer ID. It is the IP address of the customer gateway by default . Both FQDN and IP formats are supported.
IpsecConfig	N/A	N/A	Configurations of phase two negotiation.

Parameter	Type	Example value	Description
└IpsecAuthAlg	String	sha1	The IPsec authentication algorithm. Both SHA-1 and MD5 are supported.
└IpsecEncAlg	String	aes	The IPsec encryption algorithm.
└IpsecLifetime	Long	86400	The IPsec lifetime.
└IpsecPfs	String	group2	The DH group.
RequestId	String	F2310D45-BCF6-4E2E-9082-B4503844BA4C	The ID of the request.

Examples

Request example

```
https://vpc.aliyuncs.com/?Action=DescribeVpnConnection
&RegionId=cn-hangzhou
&VpnConnectionId=vco-bp1bbi27hojx80nck9k1i
&<CommonParameters>
```

Response example

- XML format

```
<DescribeVpnConnectionResponse>
  <PageNumber>1</PageNumber>
  <VpnConnections>
    <VpnConnection>
      <Name>c2</Name>
      <CustomerGatewayId>cgw-bp1wl8dtz3auwlavwhgcw</
CustomerGatewayId>
      <Status>ike_sa_not_established</Status>
      <RemoteSubnet>192.168.0.0/16</RemoteSubnet>
      <IpsecConfig>
        <IpsecLifetime>86400</IpsecLifetime>
        <IpsecAuthAlg>md5</IpsecAuthAlg>
        <IpsecPfs>group2</IpsecPfs>
        <IpsecEncAlg>aes</IpsecEncAlg>
      </IpsecConfig>
      <EffectImmediately>false</EffectImmediately>
      <VpnGatewayId>vpn-bp1yfrjxn4d5t63tbqq70</
VpnGatewayId>
      <CreateTime>1519391420000</CreateTime>
      <VpnConnectionId>vco-bp1w3m1p23iftycvseuc2</
VpnConnectionId>
      <LocalSubnet>172.16.0.0/12</LocalSubnet>
```

```
      < IkeConfig >
        < IkeEncAlg > aes </ IkeEncAlg >
        < RemoteId > 47 . 97 . 176 . 95 </ RemoteId >
        < IkePfs > group2 </ IkePfs >
        < IkeAuthAlg > sha1 </ IkeAuthAlg >
        < Psk > 1234567 </ Psk >
        < IkeMode > aggressive </ IkeMode >
        < IkeLifetim  e > 86400 </ IkeLifetim  e >
        < IkeVersion > ikev1 </ IkeVersion >
        < LocalId > 116 . 62 . 119 . 2 </ LocalId >
      </ IkeConfig >
    </ VpnConnect  ion >
  </ VpnConnect  ions >
  < TotalCount > 1 </ TotalCount >
  < PageSize > 10 </ PageSize >
  < RequestId > 7D598A10 - 26EF - 44F2 - 9F47 - E417842F3C  EA </
 RequestId >
</ DescribeVp  nConnectio  nResponse >
```

- **JSON format**

```
{
 " PageNumber ": 1 ,
 " VpnConnect  ions ":{
  " VpnConnect  ion ":[
   {
    " CustomerGa  tewayId ":" cgw - bp1wl8dtz3  auwlavwhgc  w ",
    " Name ":" c2 ",
    " Status ":" ike_sa_not  _establish  ed ",
    " RemoteSubn  et ":" 192 . 168 . 0 . 0 / 16 ",
    " IpsecConfi  g ":{
     " IpsecLifet  ime ": 86400 ,
     " IpsecAuthA  lg ":" md5 ",
     " IpsecPfs ":" group2 ",
     " IpsecEncAl  g ":" aes "
    },
    " VpnGateway  Id ":" vpn - bp1yfrjxn4  d5t63tbqq7  0 ",
    " EffectImme  diately ": false ,
    " VpnConnect  ionId ":" vco - bp1w3m1p23  iftycvseuc  2 ",
    " CreateTime ": 1519391420  000 ,
    " LocalSubne  t ":" 172 . 16 . 0 . 0 / 12 ",
    " IkeConfig ":{
     " IkeEncAlg ":" aes ",
     " IkePfs ":" group2 ",
     " RemoteId ":" 47 . 97 . 176 . 95 ",
     " IkeAuthAlg ":" sha1 ",
     " Psk ":" 1234567 ",
     " IkeMode ":" aggressive ",
     " IkeLifetim  e ": 86400 ,
     " IkeVersion ":" ikev1 ",
     " LocalId ":" 116 . 62 . 119 . 2 "
    }
   }
  ]
 },
 " TotalCount ": 1 ,
 " PageSize ": 10 ,
 " RequestId ":" 7D598A10 - 26EF - 44F2 - 9F47 - E417842F3C  EA "
```

```
}
```

Error codes

HTTP status code	Error code	Error message	Description
403	Forbbiden.SubUser	User not authorized to operate on the specified resource as your account is created by another user.	You are not authorized to operate on this resource. Please apply for the permission and try again later.
403	Forbidden	User not authorized to operate on the specified resource.	You are not authorized to operate on this resource. For more information, open a ticket.
404	InvalidVpnConnectionInstanceId.NotFound	The specified vpn connection instance id does not exist.	The specified VPN connection does not exist. Check if the VPN link is correct.

See common error codes

15.11 DeleteVpnConnection

Deletes an IPsec connection.

> Note:
> After an IPsec connection is deleted, the VPC is disconnected from the network of the on-premises data center.

Debug

By using API Explorer, you can easily debug APIs, automatically generate SDK code examples, and quickly search for APIs.

Request parameters

Parameter	Type	Required?	Example value	Description
`Action`	String	Yes	DeleteVpnConnection	The name of this action. Value: `DeleteVpnConnection`
`RegionId`	String	Yes	cn-hangzhou	The ID of the region to which the IPsec connection belongs. To query the region ID, call `DescribeRegions`.
`VpnConnectionId`	String	Yes	vco-bp1bbi27hojx80nck9k1i	The ID of the IPsec connection.
`ClientToken`	String	No	02fb3da4-130e-11e9-8e44-0016e04115b	A client token used to guarantee the idempotence of requests. This parameter value is generated by the client and must be unique. It must be 1 to 64 ASCII characters in length.

Response parameters

Parameter	Type	Example value	Description
`RequestId`	String	606998F0-B94D-48FE-8316-ACA81BB230DA	The ID of the request.

Examples

Request example

```
https://vpc.aliyuncs.com/?Action=DeleteVpnConnection
&RegionId=cn-hangzhou
&VpnConnectionId=vco-bp1bbi27hojx80nck9k1i
```

```
&< CommonPara  meters >
```

Response example

- XML format

```
< DeleteVpnC  onnectionR  esponse >
  < RequestId > 606998F0 - B94D - 48FE - 8316 - ACA81BB230  DA </
 RequestId >
</ DeleteVpnC  onnectionR  esponse >
```

- JSON format

```
{
 " RequestId ":" 606998F0 - B94D - 48FE - 8316 - ACA81BB230  DA "
}
```

Error codes

HTTP status code	Error code	Error message	Description
403	Forbbiden. SubUser	User not authorized to operate on the specified resource as your account is created by another user.	You are not authorized to operate on this resource . Please apply for the permission and try again.
403	Forbidden	User not authorized to operate on the specified resource.	You are not authorized to operate on this resource . For more information, open a ticket.
404	InvalidVpn Connection InstanceId. NotFound	The specified vpn connection instance id does not exist.	The specified VPN connection does not exist . Check that the VPN connection exists.
400	VpnGateway. Configuring	The specified service is configuring.	The service is being configured. Please try again later.

See common error codes

15.12 DownloadVpnConnectionConfig

Obtains the configurations of an IPsec connection.

Debug

By using API Explorer, you can easily debug APIs, automatically generate SDK code examples, and quickly search for APIs.

Request parameters

Parameter	Type	Required?	Example value	Description
`Action`	String	Yes	DownloadVpnConnectionConfig	The name of this action. Value: `DownloadVpnConnectionConfig`
`RegionId`	String	Yes	cn-shanghai	The ID of the region to which the IPsec connection belongs. To query the region ID, call `DescribeRegions`.
`VpnConnectionId`	Integer	Yes	vco-bp1bbi27hojx80nck9k1i	The ID of the IPsec connection.

Response parameters

Parameter	Type	Example value	Description
RequestId	String	0C68048B-0F70-40DA-B8AE-1B79B5CF62E3	The ID of the request.
VpnConnectionConfig			IPsec connection configurations.
└IkeConfig			IKE configurations.
└IkeAuthAlg	String	sha1	The IKE authentication algorithm. Both SHA-1 and MD5 are supported.

Parameter	Type	Example value	Description
└IkeEncAlg	String	aes	The IKE encryption algorithm.
└IkeLifetime	Long	86400	The IKE lifetime.
└IkeMode	String	main	The IKE mode. Both main mode and aggressive mode are supported. The main mode features high security. If NAT traversal is enabled , we recommend that you select the aggressive mode.
└IkePfs	String	group2	The DH group.
└IkeVersion	String	ikev1	The IKE version.
└LocalId	String	116.62.69.64	The local ID. By default, it is the IP address of the VPN Gateway. Both FQDN and IP formats are supported .
└Psk	String	pgw6dy7d1i 8in7x5	The pre-shared key.
└RemoteId	String	139.196.32.167	The peer ID. By default, it is the IP address of the customer gateway . Both FQDN and IP formats are supported.
└IpsecConfi g			The IPsec connection configurat ions.
└IpsecAuthA lg	String	sha1	The IPsec authentication algorithm . Both SHA-1 and MD5 are supported.
└IpsecEncAl g	String	aes	The IPsec encryption algorithm.

Parameter	Type	Example value	Description
└IpsecLifetime	Long	86400	The IPsec lifetime.
└IpsecPfs	String	group2	The DH group.
└Local	String	139.196.32.167	The IP address of the VPN Gateway.
└LocalSubnet	String	1.1.1.0/24,1.1.2.0/24	The CIDR block of the VPC.
└Remote	String	116.62.69.64	The IP address of the customer gateway.
└RemoteSubnet	String	1.1.1.0/24,1.1.2.0/24	The CIDR block of the on-premises data center.

Examples

Request example

```
 https :// vpc . aliyuncs . com /? Action = DownloadVp  nConnectio
 nConfig
& RegionId = cn - shanghai
& VpnConnect  ionId = vco - bp1bbi27ho  jx80nck9k1  i
&< CommonPara  meters >
```

Response example

- XML format

```
< DownloadVp  nConnectio  nConfigRes  ponse >
  < RequestId > 6F4A035F - 7060 - 45D7 - B9BD - 719372782A  F6 </
 RequestId >
  < VpnConnect  ionConfig >
    < RemoteSubn  et > 1 . 1 . 1 . 0 / 24 , 1 . 1 . 2 . 0 / 24 </
 RemoteSubn  et >
    < Local > 139 . 196 . 32 . 167 </ Local >
    < IpsecConfi  g >
      < IpsecLifet  ime > 86400 </ IpsecLifet  ime >
      < IpsecAuthA  lg > sha1 </ IpsecAuthA  lg >
      < IpsecPfs > group2 </ IpsecPfs >
      < IpsecEncAl  g > aes </ IpsecEncAl  g >
    </ IpsecConfi  g >
    < Remote > 116 . 62 . 69 . 64 </ Remote >
    < LocalSubne  t > 2 . 2 . 2 . 0 / 24 </ LocalSubne  t >
    < IkeConfig >
      < IkeEncAlg > aes </ IkeEncAlg >
      < IkePfs > group2 </ IkePfs >
      < RemoteId > 116 . 62 . 69 . 64 </ RemoteId >
      < IkeAuthAlg > sha1 </ IkeAuthAlg >
```

```
      < Psk > pgw6dy7d1i  8in7x5 </ Psk >
      < IkeMode > main </ IkeMode >
      < IkeLifetim  e > 86400 </ IkeLifetim  e >
      < IkeVersion > ikev1 </ IkeVersion >
      < LocalId > 139 . 196 . 32 . 167 </ LocalId >
    </ IkeConfig >
  </ VpnConnect  ionConfig >
</ DownloadVp  nConnectio  nConfigRes  ponse >
```

- JSON format

```
{
 " RequestId ":" 0C68048B - 0F70 - 40DA - B8AE - 1B79B5CF62  E3 ",
 " VpnConnect  ionConfig ":{
  " RemoteSubn  et ":" 1 . 1 . 1 . 0 / 24 , 1 . 1 . 2 . 0 / 24 ",
  " IpsecConfi  g ":{
   " IpsecLifet  ime ": 86400 ,
   " IpsecAuthA  lg ":" sha1 ",
   " IpsecPfs ":" group2 ",
   " IpsecEncAl  g ":" aes "
  },
  " Local ":" 139 . 196 . 32 . 167 ",
  " Remote ":" 116 . 62 . 69 . 64 ",
  " LocalSubne  t ":" 2 . 2 . 2 . 0 / 24 ",
  " IkeConfig ":{
   " IkeEncAlg ":" aes ",
   " RemoteId ":" 116 . 62 . 69 . 64 ",
   " IkePfs ":" group2 ",
   " IkeAuthAlg ":" sha1 ",
   " Psk ":" pgw6dy7d1i  8in7x5 ",
   " IkeMode ":" main ",
   " IkeLifetim  e ": 86400 ,
   " IkeVersion ":" ikev1 ",
   " LocalId ":" 139 . 196 . 32 . 167 "
  }
 }
}
```

Error codes

HTTP status code	Error code	Error message	Description
403	Forbbiden. SubUser	User not authorized to operate on the specified resource as your account is created by another user.	You are not authorized to operate on this resource . Please apply for the permission and try again.
403	Forbidden	User not authorized to operate on the specified resource.	You are not authorized to operate on this resource . For more information, open a ticket.

HTTP status code	Error code	Error message	Description
404	InvalidVpnConnectionInstanceId.NotFound	The specified vpn connection instance id does not exist.	The specified VPN connection does not exist. Check if the VPN connect is correct.

See common error codes

15.13 CreateSslVpnServer

Creates an SSL-VPN server.

Debug

By using API Explorer, you can easily debug APIs, automatically generate SDK code examples, and quickly search for APIs.

Request parameters

Type	Required?	Example value	Description
String `Action`	Yes	CreateSslVpnServer	The name of this action. Value: `CreateSslVpnServer`
String `ClientIpPool`	Yes	192.168.1.0/24	The CIDR block from which IP addresses are allocated to the virtual network interface card of the client. It is not the CIDR block of the client. When the client accesses the local end through an SSL-VPN connection, the VPN Gateway allocates an IP address in the specified CIDR block to the client. The CIDR block cannot conflict with the LocalSubnet.

Type	Required?	Example value	Description
String `LocalSubnet`	Yes	10.0.0.0/8	The CIDR block to be accessed by the client through the SSL-VPN connection. The local CIDR block can be the CIDR block of the VPC, the CIDR block of the VSwitch, the CIDR block of the local data center connected to the VPC through a physical connection, or the CIDR block of an Alibaba Cloud service, such as RDS and OSS.
String `RegionId`	Yes	cn-hangzhou	The ID of the region to which the VPN Gateway belongs. To query the region ID, call `DescribeRegions`.
String `VpnGatewayId`	Yes	vpn-bp1hgim8by0kc9nga5lg3	The ID of the VPN Gateway to be used.
String `Cipher`	No	AES-128-CBC	The encryption algorithm used by the SSL-VPN server. Valid values: `AES-128-CBC` (default) | `AES-192-CBC` | `AES-256-CBC` | `none`
String `ClientToken`	No	02fb3da4-130e-11e9-8e44-0016e04115b	A client token used to guarantee the idempotence of requests. This parameter value is generated by the client and must be unique. It must be 1 to 64 ASCII characters in length.
Boolean `Compress`	No	false	Indicates whether to enable compression.

Type	Required?	Example value	Description
String	No	sslvpnname	The name of the SSL-VPN server. The name must be 2 to 128 characters in length and can contain letters, numbers, periods (.), underscores (_), and hyphens (-). The name must start with a letter. It cannot start with `http://` or `https://`.
Integer	No	1194	The port used by the SSL-VPN server. Default value: 1194. The following ports cannot be used: 22, 2222, 22222, 9000, 9001, 9002, 7505, 80, 443, 53, 68, 123, 4510, 4560, 500, and 4500.
String	No	UDP	The protocol used by the SSL-VPN server. Valid values: `UDP` (default) | `TCP`

Response parameters

Parameter	Type	Example value	Description
`Name`	String	test	The name of the SSL-VPN server.
`RequestId`	String	E98A9651-7098-40C7-8F85-C818D1EBBA85	The ID of the request.
`SslVpnServerId`	String	vss-bp18q7hzj6largv4vk2fe	The ID of the SSL-VPN server.

Examples

Request example

```
https://vpc.aliyuncs.com/?Action=CreateSslVpnServer
&ClientIpPool=192.168.1.0/24
&LocalSubnet=10.0.0.0/8
```

```
& RegionId = cn - hangzhou
& VpnGateway  Id = vpn - xxxxxxxxxx  x
& Action = CreateSslV  pnServer
& Cipher = AES - 128 - CBC
& ClientToke  n = aaa
& Compress = false
& Name = aaa
& OwnerAccou  nt =
& OwnerId =
& Port =
& Proto =
& ResourceOw  nerAccount =
& ResourceOw  nerId =
&< CommonPara  meters >
```

Response example

- **XML format**

```
< CreateSslV  pnServerRe  sponse >
  < RequestId > E98A9651 - 7098 - 40C7 - 8F85 - C818D1EBBA  85 </
 RequestId >
  < SslVpnServ  erId > vss - bp18q7hzj6  largv4vk2f  e </
 SslVpnServ  erId >
  < Name > test </ Name >
</ CreateSslV  pnServerRe  sponse >
```

- **JSON format**

```
{
 " Name ":" test ",
 " RequestId ":" E98A9651 - 7098 - 40C7 - 8F85 - C818D1EBBA  85 ",
 " SslVpnServ  erId ":" vss - bp18q7hzj6  largv4vk2f  e "
}
```

Error codes

HTTP status code	Error code	Error message	Description
403	Forbbiden. SubUser	User not authorized to operate on the specified resource as your account is created by another user.	You are not authorized to operate on this resource . Please apply for the permission and try again.
403	Forbidden	User not authorized to operate on the specified resource.	You are not authorized to operate on this resource . For more information, open a ticket.
400	Resource. QuotaFull	The quota of resource is full	The resource quota has been reached.

HTTP status code	Error code	Error message	Description
400	InvalidName	The name is not valid	The name format is invalid.
404	InvalidVpnGatewayInstanceId.NotFound	The specified vpn gateway instance id does not exist.	The specified VPN connection does not exist. Check that the VPN connection is correct.
400	VpnGateway.Configuring	The specified service is configuring.	The service is being configured. Please try again later.
400	VpnGateway.FinancialLocked	The specified service is financial locked.	The specified service has an overdue payment. Renew your account to settle the overdue payment.

See common error codes

15.14 DescribeSslVpnServers

Queries SSL-VPN servers.

Debug

By using API Explorer, you can easily debug APIs, automatically generate SDK code examples, and quickly search for APIs.

Request parameters

Parameter	Type	Required?	Example value	Description
`Action`	String	Yes	DescribeSslVpnServers	The name of this action. Value: `DescribeSslVpnServers`

Parameter	Type	Required?	Example value	Description
`RegionId`	String	Yes	cn-hangzhou	The ID of the region to which the SSL-VPN server belongs. To query the region ID, call `DescribeRegions`.
`Name`	String	No	test	The name of the SSL-VPN server.
`PageNumber`	Integer	No	1	The number of pages to return. Default value: `1` .
`PageSize`	Integer	No	10	The number of rows per page. Maximum value: `50` . Default value: `10` .
`SslVpnServerId`	String	No	vss-bp15j3du13gq1dgeypy1q	The ID of the SSL-VPN server.
`VpnGatewayId`	String	No	vpn-bp1on0xae9d771ggiomqe	The ID of the VPN Gateway.

Response parameters

Parameter	Type	Example value	Description
PageNumber	Integer	1	The current page number.
PageSize	Integer	10	The number of entries per page.
RequestId	String	085CA5EA-1E76-43A8-981B-E0208DECA0CB	The ID of the request.
SslVpnServers	N/A	N/A	A list of SSL-VPN servers.
└Cipher	String	AES-128-CBC	The encryption algorithm used.
└ClientIpPool	String	10.10.1.0/24	The IP address pool of the client.

Parameter	Type	Example value	Description
└Compress	Boolean	false	Indicates whether to compress the communication.
└Connections	Integer	0	The number of current connections.
└CreateTime	Long	1544668844000	The time when the SSL-VPN server was created.
└InternetIp	String	47.96.167.xxx	The public IP address.
└LocalSubnet	String	192.168.0.0/24	The CIDR block of the client.
└MaxConnections	Integer	5	The maximum number of concurrent connections.
└Name	String	test	The name of the SSL VPN server.
└Port	Integer	1194	The port used by the SSL-VPN server.
└Proto	String	UDP	The protocol used by the SSL-VPN server.
└RegionId	String	cn-hangzhou	The region of the SSL-VPN server.
└SslVpnServerId	String	vss-bp15j3du13gq1dgeypy1q	The ID of the SSL-VPN server.
└VpnGatewayId	String	vpn-bp1on0xae9d771ggiomqe	The ID of the VPN Gateway.
TotalCount	Integer	1	The number of queried entries.

Examples

Request example

```
https :// vpc . aliyuncs . com /? Action = DescribeSs  lVpnServer  s
```

```
& RegionId = cn - hangzhou
&< CommonPara  meters >
```

Response example

- **XML format**

```
< DescribeSs  lVpnServer  sResponse >
  < PageNumber > 1 </ PageNumber >
  < TotalCount > 1 </ TotalCount >
  < PageSize > 10 </ PageSize >
  < SslVpnServ  ers >
    < SslVpnServ  er >
      < RegionId > cn - hanghzou </ RegionId >
      < SslVpnServ  erId > vss - bp18q7hzj6  largv4vk2f  e </
 SslVpnServ  erId >
      < VpnGateway  Id > vpn - bp1q8bgx4x  nkm2ogj0fi  u </
 VpnGateway  Id >
      < Name > test </ Name >
      < CLientIpPo  ol > 10 . 10 . 10 . 20 / 24 </ CLientIpPo  ol >
      < LocalSubne  t > 10 . 10 . 10 . 10 / 24 </ LocalSubne  t >
      < Proto > UDP </ Proto >
      < Port > 1194 </ Port >
      < Cipher > AES - 128 - CBC </ Cipher >
      < Compress > true </ Compress >
      < CreateTime > 1492753580  000 </ CreateTime >
      < Connection  s > 0 </ Connection  s >
      < MaxConnect  ions > 5 </ MaxConnect  ions >
      < InternetIp > 47 . 98 . xx . xx </ InternetIp >
    </ SslVpnServ  er >
  </ SslVpnServ  ers >
  < RequestId > DF11D6F6 - E35A - 41C3 - 9B20 - 6FC8A901FE  65 </
 RequestId >
</ DescribeSs  lVpnServer  sResponse >
```

- **JSON format**

```
{
 " PageNumber ":" 1 ",
 " TotalCount ":" 1 ",
 " SslVpnServ  ers ":{
  " SslVpnServ  er ":{
   " VpnGateway  Id ":" vpn - bp1q8bgx4x  nkm2ogj0fi  u ",
   " CLientIpPo  ol ":" 10 . 10 . 10 . 20 / 24 ",
   " Proto ":" UDP ",
   " Cipher ":" AES - 128 - CBC ",
   " InternetIp ":" 47 . 98 . xx . xx ",
   " SslVpnServ  erId ":" vss - bp18q7hzj6  largv4vk2f  e ",
   " Name ":" test ",
   " Port ":" 1194 ",
   " MaxConnect  ions ":" 5 ",
   " RegionId ":" cn - hanghzou ",
   " CreateTime ":" 1492753580  000 ",
   " Compress ":" true ",
   " LocalSubne  t ":" 10 . 10 . 10 . 10 / 24 ",
   " Connection  s ":" 0 "
  }
 },
 " PageSize ":" 10 ",
 " RequestId ":" DF11D6F6 - E35A - 41C3 - 9B20 - 6FC8A901FE  65 "
```

```
}
```

Error codes

HTTP status code	Error code	Error message	Description
403	Forbbiden. SubUser	User not authorized to operate on the specified resource as your account is created by another user.	You are not authorized to operate on this resource . Please apply for the permission and try again.
403	Forbidden	User not authorized to operate on the specified resource.	You are not authorized to operate on this resource. Please open a ticket.

See common error codes

15.15 DeleteSslVpnServer

Deletes an SSL-VPN server.

Debug

By using API Explorer, you can easily debug APIs, automatically generate SDK code examples, and quickly search for APIs.

Request parameters

Parameter	Type	Required?	Example value	Description
`Action`	String	Yes	DeleteSslVpnServer	The name of this action. Value: `DeleteSslVpnServer`
`RegionId`	String	Yes	cn-hangzhou	The ID of the region to which the SSL-VPN server belongs. To query the region ID, call `DescribeRegions`.
`SslVpnServerId`	String	Yes	vss-bp18q7hzj6largv4vk2fe	The ID of the SSL-VPN server.

Parameter	Type	Required?	Example value	Description
ClientToken	String	No	02fb3da4-130e-11e9-8e44-0016e04115b	A client token used to guarantee the idempotence of requests. This parameter value is generated by the client and must be unique. It must be 1 to 64 ASCII characters in length.

Response parameters

Parameter	Type	Example value	Description
RequestId	String	606998F0-B94D-48FE-8316-ACA81BB230DA	The ID of the request.

Examples

Request example

```
 https :// vpc . aliyuncs . com /? Action = DeleteSslV  pnServer
& RegionId = cn - hangzhou
& SslVpnServ  erId = vss - bp18q7hzj6  largv4vk2f  e
&< CommonPara  meters >
```

Response example

- XML format

```
< DeleteSslV  pnServerRe  sponse >
  < RequestId > 606998F0 - B94D - 48FE - 8316 - ACA81BB230  DA </
 RequestId >
</ DeleteSslV  pnServerRe  sponse >
```

- JSON format

```
{
 " RequestId ":" 606998F0 - B94D - 48FE - 8316 - ACA81BB230  DA "
```

```
}
```

Error codes

HTTP status code	Error code	Error message	Description
403	Forbbiden.SubUser	User not authorized to operate on the specified resource as your account is created by another user.	You are not authorized to operate on this resource. Please apply for the permission and try again.
403	Forbidden	User not authorized to operate on the specified resource.	You are not authorized to operate on this resource. For more information, open a ticket.
400	VpnGateway.Configuring	The specified service is configuring.	The service is being configured. Please try again later.
400	VpnGateway.FinancialLocked	The specified service is financial locked.	The specified service has an overdue payment. Renew your account to settle the payment.

See common error codes

15.16 ModifySslVpnServer

Modifies the configurations of an SSL-VPN server.

Debug

By using API Explorer, you can easily debug APIs, automatically generate SDK code examples, and quickly search for APIs.

Request parameters

Parameter	Type	Required?	Example value	Description
`Action`	String	Yes	ModifySslVpnServer	The name of this action. Value: `ModifySslVpnServer`

Parameter	Type	Required?	Example value	Description
`RegionId`	String	Yes	cn-hangzhou	The ID of the region to which the VPN Gateway belongs. To query the region ID, call `DescribeRegions`.
`SslVpnServerId`	String	Yes	vss-bp18q7hzj6largv4vk2fe	The ID of the SSL-VPN server.
`Cipher`	String	No	AES-128-CBC	The encryption algorithm used by the SSL-VPN server. Valid values: `AES-128-CBC` (default) | `AES-192-CBC` | `AES-256-CBC` | `none`
`ClientIpPool`	String	Yes	10.30.30.0/2	The CIDR block from which IP addresses are allocated to the virtual network interface card of the client. It is not the CIDR block of the client. When the client accesses the local end through an SSL-VPN connection, the VPN Gateway allocates an IP address in the specified CIDR block to the client. The CIDR block cannot conflict with the LocalSubnet.

Parameter	Type	Required?	Example value	Description
`ClientToken`	String	No	02fb3da4-130e-11e9-8e44-0016e04115b	A client token used to guarantee the idempotence of requests. This parameter value is generated by the client and must be unique. It must be 1 to 64 ASCII characters in length.
`Compress`	Boolean	No	false	Indicates whether to enable compression. Valid values: `true` (default) | `false`
`LocalSubnet`	String	No	10.20.20.0/24	The CIDR block to be accessed by the client through the SSL-VPN connection. The local CIDR block can be the CIDR block of the VPC, the CIDR block of the VSwitch, the CIDR block of the on-premises data center connected to the VPC through a physical connection, or the CIDR block of an Alibaba Cloud service, such as RDS or OSS.

Parameter	Type	Required?	Example value	Description
`Name`	String	No	test	The name of the SSL-VPN server. The name must be 2 to 128 characters in length and can contain letters, numbers, periods (.), underscores (_), and hyphens (-). The name must start with a letter. It cannot start with `http://` or `https://`.
`Port`	Integer	No	1194	The port used by the SSL-VPN server. Default value: 1194. The following ports cannot be used: 22, 2222, 22222, 9000, 9001, 9002, 7505, 80, 443, 53, 68, 123, 4510, 4560, 500, and 4500.
`Proto`	String	No	UDP	The protocol used by the SSL-VPN server.

Response parameters

Parameter	Type	Example value	Description
Cipher	String	AES-128-CBC	The encryption algorithm used.
ClientIpPool	String	10.30.30.0/24	The IP address pool of the client.
Compress	Boolean	false	Whether to compress the communication.
Connections	Integer	0	The number of current connections.

Parameter	Type	Example value	Description
CreateTime	Long	1492753580000	The time at which the SSL-VPN server was created.
InternetIp	String	47.98.xx.xx	The public IP address.
LocalSubnet	String	10.20.20.0/24	The CIDR block of the local client.
MaxConnections	Integer	5	The maximum number of concurrent connections.
Name	String	test	The name of the SSL-VPN server.
Port	Integer	1194	The port of the SSL-VPN server.
Proto	String	UDP	The protocol used by the SSL-VPN server.
RegionId	String	cn-hangzhou	The ID of the region to which the SSL-VPN server belongs.
RequestId	String	DF11D6F6-E35A-41C3-9B20-6FC8A901FE65	The ID of the request.
SslVpnServerId	String	vss-bp18q7hzj6largv4vk2fe	The ID of the SSL-VPN server.
VpnGatewayId	String	vpn-bp1q8bgx4xnkm2ogj0fiu	The ID of the VPN Gateway.

Examples

Request example

```
 https :// vpc . aliyuncs . com /? Action = ModifySslV  pnServer
& RegionId = cn - hangzhou
& SslVpnServ  erId = vss - bp18q7hzj6  largv4vk2f  e
&< CommonPara  meters >
```

Response example

- XML format

```
< ModifySslV  pnServerRe  sponse >
```

```
  < PageNumber > 1 </ PageNumber >
  < TotalCount > 1 </ TotalCount >
  < PageSize > 10 </ PageSize >
  < SslVpnServ  ers >
    < SslVpnServ  er >
      < RegionId > cn - hanghzou </ RegionId >
      < SslVpnServ  erId > vss - bp18q7hzj6  largv4vk2f  e </
 SslVpnServ  erId >
      < VpnGateway  Id > vpn - bp1q8bgx4x  nkm2ogj0fi  u </
 VpnGateway  Id >
      < Name > test </ Name >
      < CLientIpPo  ol > 10 . 30 . 30 . 0 / 24 </ CLientIpPo  ol >
      < LocalSubne  t > 10 . 20 . 20 . 0 / 24 </ LocalSubne  t >
      < Proto > UDP </ Proto >
      < Port > 1194 </ Port >
      < Cipher > AES - 128 - CBC </ Cipher >
      < Compress > true </ Compress >
      < CreateTime > 1492753580  000 </ CreateTime >
      < Connection  s > 0 </ Connection  s >
      < MaxConnect  ions > 5 </ MaxConnect  ions >
      < InternetIp > 47 . 98 . xx . xx </ InternetIp >
    </ SslVpnServ  er >
  </ SslVpnServ  ers >
  < RequestId > DF11D6F6 - E35A - 41C3 - 9B20 - 6FC8A901FE  65 </
 RequestId >
</ ModifySslV  pnServerRe  sponse >
```

- **JSON format**

```
{
 " PageNumber ":" 1 ",
 " TotalCount ":" 1 ",
 " SslVpnServ  ers ":{
  " SslVpnServ  er ":{
   " VpnGateway  Id ":" vpn - bp1q8bgx4x  nkm2ogj0fi  u ",
   " CLientIpPo  ol ":" 10 . 30 . 30 . 0 / 24 ",
   " Proto ":" UDP ",
   " Cipher ":" AES - 128 - CBC ",
   " InternetIp ":" 47 . 98 . xx . xx ",
   " SslVpnServ  erId ":" vss - bp18q7hzj6  largv4vk2f  e ",
   " Name ":" test ",
   " Port ":" 1194 ",
   " MaxConnect  ions ":" 5 ",
   " RegionId ":" cn - hanghzou ",
   " CreateTime ":" 1492753580  000 ",
   " Compress ":" true ",
   " LocalSubne  t ":" 10 . 20 . 20 . 0 / 24 ",
   " Connection  s ":" 0 "
  }
 },
 " PageSize ":" 10 ",
 " RequestId ":" DF11D6F6 - E35A - 41C3 - 9B20 - 6FC8A901FE  65 "
```

```
}
```

Error codes

HTTP status code	Error code	Error message	Description
403	Forbbiden.SubUser	User not authorized to operate on the specified resource as your account is created by another user.	You are not authorized to operate on this resource. Please apply for the permission and try again.
403	Forbidden	User not authorized to operate on the specified resource.	You are not authorized to operate on this resource. Please open a ticket.
400	InvalidName	The name is not valid	The name format is invalid.
400	VpnGateway.Configuring	The specified service is configuring.	The service is being configured. Please try again later.
400	VpnGateway.FinancialLocked	The specified service is financial locked.	The service is stopped due to insufficient account balance. Please renew your account first.

See common error codes

15.17 DeleteSslVpnClientCert

Deletes an SSL-VPN client certificate.

Debug

By using API Explorer, you can easily debug APIs, automatically generate SDK code examples, and quickly search for APIs.

Request parameters

Parameter	Type	Required?	Example value	Description
`Action`	String	Yes	DeleteSslVpnClientCert	The name of this action. Value: `DeleteSslVpnClientCert`
`RegionId`	String	Yes	cn-hangzhou	The region to which the SSL-VPN client certificate belongs. To query the region ID, call `DescribeRegions`.
`SslVpnClientCertId`	String	Yes	vsc-bp1n8wcf134yl0osrcg98	The ID of the SSL-VPN client certificate.
`ClientToken`	String	No	02fb3da4-130e-11e9-8e44-0016e04115b	A client token used to guarantee the idempotence of requests. This parameter value is generated by the client and must be unique. It must be 1 to 64 ASCII characters in length.

Response parameters

Parameter	Type	Example value	Description
`RequestId`	String	606998F0-B94D-48FE-8316-ACA81BB230DA	The ID of the request.

Examples

Request example

```
https://vpc.aliyuncs.com/?Action=DeleteSslVpnClientCert
&RegionId=cn-hangzhou
&SslVpnClientCertId=vsc-bp1n8wcf134yl0osrcg98
```

```
&< CommonRequ  estParamet  ers >
```

Response example

- XML format

```
< DeleteSslV  pnClientCe  rtResponse >
  < RequestId > 606998F0 - B94D - 48FE - 8316 - ACA81BB230  DA </
 RequestId >
</ DeleteSslV  pnClientCe  rtResponse >
```

- JSON format

```
{
 " RequestId ":" 606998F0 - B94D - 48FE - 8316 - ACA81BB230  DA "
}
```

Error codes

HTTP status code	Error code	Error message	Description
403	Forbbiden.SubUser	User not authorized to operate on the specified resource as your account is created by another user.	You are not authorized to operate on this resource. Please apply for the permission and try again.
403	Forbidden	User not authorized to operate on the specified resource.	You are not authorized to operate on this resource. For more information, open a ticket.
400	VpnGateway.Configuring	The specified service is configuring.	The service is being configured. Please try again later.

See common error codes

15.18 ModifySslVpnClientCert

Modifies the name of an SSL-VPN client certificate.

Debug

By using API Explorer, you can easily debug APIs, automatically generate SDK code examples, and quickly search for APIs.

Request parameters

Parameter	Type	Required?	Example value	Description
`Action`	String	Yes	ModifySslVpnClientCert	The name of this action. Value: `ModifySslVpnClientCert`
`RegionId`	String	Yes	cn-hangzhou	The ID of the region to which the SSL-VPN client certificate belongs. To query the region ID, call `DescribeRegions`.
`SslVpnClientCertId`	String	Yes	vsc-bp1n8wcf134yl0osrcg98	The ID of the SSL-VPN client certificate.
`ClientToken`	String	No	02fb3da4-130e-11e9-8e44-0016e04115b	A client token used to guarantee the idempotence of requests. This parameter value is generated by the client and must be unique. It must be 1 to 64 ASCII characters in length.
`Name`	String	No	cert2	The name of the SSL-VPN client certificate. The name must be 2 to 128 characters in length and can contain letters, numbers, periods (.), underscores (_), and hyphens (-). The name must start with a letter. It cannot start with `http://` or `https://`.

Response parameters

Parameter	Type	Example value	Description
Name	String	cert2	The name of the client certificate.
RequestId	String	606998F0-B94D-48FE-8316-ACA81BB230DA	The ID of the request.

Examples

Request example

```
https :// vpc . aliyuncs . com /? Action = ModifySslV  pnClientCe
rt
& RegionId = cn - hangzhou
& SslVpnClie  ntCertId = vsc - bp1n8wcf13  4yl0osrcg9  8
& Name = cert2
&< CommonPara  meters >
```

Response example

- XML format

```
< ModifySslV  pnClientCe  rtResponse >
  < SslVpnClie  ntCertId > vsc - bp1n8wcf13  4yl0osrcg9  8 </
 SslVpnClie  ntCertId >
  < Name > cert2 </ Name >
  < RequestId > 606998F0 - B94D - 48FE - 8316 - ACA81BB230  DA </
 RequestId >
</ ModifySslV  pnClientCe  rtResponse >
```

- JSON format

```
{{
 " Name ":" cert2 ",
 " RequestId ":" 606998F0 - B94D - 48FE - 8316 - ACA81BB230  DA ",
 " SslVpnClie  ntCertId ":" vsc - bp1n8wcf13  4yl0osrcg9  8 "
}
```

Error codes

HTTP status code	Error code	Error message	Description
403	Forbbiden. SubUser	User not authorized to operate on the specified resource as your account is created by another user.	You are not authorized to operate on this resource. Apply for the permission and try again.

HTTP status code	Error code	Error message	Description
403	Forbidden	User not authorized to operate on the specified resource.	You are not authorized to operate on this resource . For more information, open a ticket.
400	InvalidName	The name is not valid	The name format is invalid.

See common error codes

15.19 ModifyVpnGatewayAttribute

Modifies the name and description of a VPN Gateway.

Debug

By using API Explorer, you can easily debug APIs, automatically generate SDK code examples, and quickly search for APIs.

Request parameters

Parameter	Type	Required?	Example value	Description
`Action`	String	Yes	ModifyVpnGatewayAttribute	The name of this action. Value: `ModifyVpnGatewayAttribute`
`RegionId`	String	Yes	cn-shanghai	The ID of the region to which the VPN Gateway belongs. To query the region ID, call `DescribeRegions`.
`VpnGatewayId`	String	Yes	vpn-bp1q8bgx4xnkm2ogj0fiu	The ID of the VPN Gateway.

Parameter	Type	Required?	Example value	Description
`ClientToken`	String	No	02fb3da4-130e-11e9-8e44-0016e04115b	A client token used to guarantee the idempotence of requests. This parameter value is generated by the client and must be unique. It must be 1 to 64 ASCII characters in length.
`Description`	String	No	vpn Gateway	The description of the VPN Gateway. The description must be 2 to 256 characters in length. It must start with a letter, but cannot start with `http://` or `https://`.
`Name`	String	No	myvpn	The name of the VPN Gateway. The name must be between 2 and 128 characters in length. It can contain letters, numbers, periods (.), underscores (_), or hyphens (-). The name must start with a letter. It cannot start with `http://` or `https://`.

Response parameters

Parameter	Type	Example value	Description
VpnGatewayId	String	vpn-bp1q8bgx4xnkm2ogj0fiu	The ID of the VPN Gateway.

Parameter	Type	Example value	Description
VpcId	String	vpc-bp1ub1yt9cvakoelj1y9	The ID of the VPC to which the VPN Gateway belongs.
VSwitchId	String	vsw-bp1y9ovl1cu9ou4tvma0l	The ID of the VSwitch to which the VPN Gateway belongs.
InternetIp	String	116.62.69.xxx	The public IP address of the VPN Gateway.
CreateTime	Long	1492753580000	The time at which the VPN Gateway was created.
EndTime	Long	1495382400000	The time at which the VPN Gateway is to expire.
Spec	String	5M	The specification of the VPN Gateway.
Name	String	test	The name of the VPN Gateway.
Description	String	test	The description of the VPN Gateway.
Status	String	active	The status of the VPN Gateway.
BusinessStatus	String	Normal	The business status of the VPN Gateway.
IntranetIp	String	172.16.104.xxx	The public IP address of the VPN Gateway.
RequestId	String	54B48E3D-DF70-471B-AA93-08E683A1B457	The ID of the request.

Examples

Request example

```
 https :// vpc . aliyuncs . com /? Action = ModifyVpnG  atewayAttr
 ibute
& RegionId = cn - shanghai
& VpnGateway  Id = vpn - bp1q8bgx4x  nkm2ogj0fi  u
&< CommonPara  meters >
```

Response example

- **XML format**

```
< ModifyVpnG  atewayAttr  ibuteRespo  nse >
  < Name > aaa </ Name >
  < Status > active </ Status >
  < VpnGateway  Id > vpn - bp1q8bgx4x  nkm2ogj0fi  u </ VpnGateway
 Id >
  < BusinessSt  atus > Normal </ BusinessSt  atus >
  < Spec > 5M </ Spec >
  < CreateTime > 1492753580  000 </ CreateTime >
  < IntranetIp > 172 . 16 . 104 . xxx </ IntranetIp >
  < RequestId > 54B48E3D - DF70 - 471B - AA93 - 08E683A1B4  57 </
 RequestId >
  < InternetIp > 116 . 62 . 69 . xxx </ InternetIp >
  < EndTime > 1495382400  000 </ EndTime >
  < VSwitchId > vsw - bp1y9ovl1c  u9ou4tvma0  l </ VSwitchId >
  < VpcId > vpc - bp1ub1yt9c  vakoelj1y9  c </ VpcId >
</ ModifyVpnG  atewayAttr  ibuteRespo  nse >
```

- **JSON format**

```
{
 " Name ":" aaa ",
 " Status ":" active ",
 " VpnGateway  Id ":" vpn - bp1q8bgx4x  nkm2ogj0fi  u ",
 " Spec ":" 5M ",
 " BusinessSt  atus ":" Normal ",
 " RequestId ":" BA56EAF8 - E3A9 - 4BE6 - 8511 - 8F03512153  E2 ",
 " IntranetIp ":" 172 . 16 . 104 . xxx ",
 " CreateTime ": 1492753580  000 ,
 " InternetIp ":" 116 . 62 . 69 . xxx ",
 " EndTime ": 1495382400  000 ,
 " VSwitchId ":" vsw - bp1y9ovl1c  u9ou4tvma0  l ",
 " VpcId ":" vpc - bp1ub1yt9c  vakoelj1y9  c "
}
```

Error codes

HTTP status code	Error code	Error message	Description
403	Forbbiden. SubUser	User not authorized to operate on the specified resource as your account is created by another user.	You are not authorized to operate on this resource.

HTTP status code	Error code	Error message	Description
403	Forbidden	User not authorized to operate on the specified resource.	You are not authorized to operate on this resource . For more information, open a ticket.
404	InvalidVpnGatewayInstanceId.NotFound	The specified vpn gateway instance id does not exist.	The specified VPN Gateway does not exist.
400	InvalidName	The name is not valid	The name format is invalid.
400	InvalidDescription	The description is not valid	The description format is invalid.

See common error codes

15.20 CreateVpnConnection

Creates an IPsec connection.

Debug

By using API Explorer, you can easily debug APIs, automatically generate SDK code examples, and quickly search for APIs.

Request parameters

Parameter	Type	Required?	Example value	Description
`Action`	String	Yes	CreateVpnConnection	The action to perform. Valid value: `CreateVpnConnection`
`CustomerGatewayId`	String	Yes	vpn-bp1q8bgx4xnkm2ogj0fiu	The ID of the customer gateway .

Parameter	Type	Required?	Example value	Description
`LocalSubnet`	string	Yes	1.1.1.0/24,1.1.2.0/24	The CIDR block of the VPC to be connected with the on-premises data center. This parameter is used for phase two negotiation. Separate multiple CIDR blocks with commas (,). For example, 192.168.1.0/24, 192.168.2.0/24.
`RegionId`	String	Yes	cn-shanghai	The region of the IPsec connection. You can obtain the region ID by calling the `DescribeRegions` API.
`RemoteSubnet`	String	Yes	1.1.1.0/24,1.1.2.0/24	The CIDR block of the on-premises data center. This parameter is used for phase two negotiation. Separate multiple CIDR blocks by commas (,). For example, 92.168.3.0/24, 192.168.4.0/24.
`VpnGatewayId`	String	Yes	vpn-bp1q8bgx4xnkm2ogj0fiu	The ID of the VPN Gateway.
`ClientToken`	String	No	02fb3da4-130e-11e9-8e44-0016e04115b	A client token used to guarantee the idempotence of requests. This parameter value is generated by the client and must be unique. It must be 1 to 64 ASCII characters in length.

Parameter	Type	Required?	Example value	Description
`EffectImmediately`	Boolean	No	false	Indicates whether to delete a successfully negotiated IPsec tunnel and initiate a negotiation again. Valid values: · `true` : Negotiate immediately after the configuration is completed. · `false` (default): Negotiate when inbound traffic is detected.

Parameter	Type	Required?	Example value	Description
`IkeConfig`	JSON String	No	ikev1	The configurations of phase one negotiation: · `IkeConfig.Psk`: Used for authentication between the IPsec VPN gateway and the customer gateway. This parameter is generated randomly by default and can contain up to 100 characters. You can also manually specify the key. · `IkeConfig.IkeVersion`: The version of the IKE protocol. Valid values: `ikev1` | `ikev2`. Default value: `ikev1`. · `IkeConfig.IkeMode`: The negotiation mode of IKE V1. Valid values: `main` (`main mode`) | `aggressive` (`aggressive mode`). Default value: `main`. · `Ikeconfig.IkeEncAlg`: The encryption algorithm of phase one negotiation. Valid values: `aes` | `aes192` | `aes256` | `des` | `3des`. Default value: `aes`. · `IkeConfig.IkeAuthAlg`: The authentication algorithm of phase one negotiation. Valid values:

Parameter	Type	Required?	Example value	Description
IpsecConfig	JSON String	No	aes	The configurations of phase two negotiation: · IpsecConfig.IpsecEncAlg: The encryption algorithm of phase two negotiation. Valid values: aes | aes192 | aes256 | des | 3des. Default value: aes. · IpsecConfig.IpsecAuthAlg: The authentication algorithm of phase two negotiation. Valid values: md5 | sha1. Default value: sha1. · IpsecConfig.IpsecPfs: Forward packets of all protocols. The Diffie-Hellman key exchange algorithm used by phase one negotiation. Valid values: group1 | group2 | group5 | group14 | group24. Default value: group2. · IpsecConfig.IpsecLifetime: The SA lifetime value resulting from phase two negotiation. Valid value: [0, 86400]. Default value: 86400. Unit: seconds.

Parameter	Type	Required?	Example value	Description
`Name`	String	No	IPsec	The name of the IPsec connection. The name must be 2 to 128 characters in length and contain letters, numbers, periods (.), underscores (_), and hyphens (-). The name must start with a letter. It cannot start with `http://` or `https://`.

Response parameters

Parameter	Type	Example value	Description
VpnConnectionId	String	vco-bp15oes1py4i66rmdnc7k	The ID of the IPsec connection.
CreateTime	Long	1544666102000	The time at which the IPsec connection was created.
Name	String	test	The name of the IPsec connection.
RequestId	String	082AD562-B8DB-4BB2-861F-DA1FCA01FD76	The ID of the request.

Examples

Request example

```
https://vpc.aliyuncs.com/?Action=CreateVpnConnection
&CustomerGatewayId=vpn-bp1q8bgx4xnkm2ogj0fiu
&LocalSubnet=1.1.1.0/24,1.1.1.2.0/24
&RegionId=cn-shanghai
&RemoteSubnet=1.1.1.0/24,1.1.1.2.0/24
&VpnGatewayId=vpn-bp1q8bgx4xnkm2ogj0fiu
&<CommonParameters>
```

Response example

- XML format

```
< CreateVpnC  onnectionR  esponse >
  < VpnConnect  ionId > vco - bp1bbi27ho  jx80nck9k1  i </
 VpnConnect  ionId >
  < CreateTime > 1493363928  000 </ CreateTime >
</ CreateVpnC  onnectionR  esponse >
```

- JSON format

```
{
 " VpnConnect  ionId ":" vco - bp15oes1py  4i66rmdnc7  k ",
 " CreateTime ": 1544666102  000
}
```

Error codes

HTTP status code	Error code	Error message	Description
403	Forbbiden. SubUser	User not authorized to operate on the specified resource as your account is created by another user.	You are not authorized to operate on this resource.
403	Forbidden	User not authorized to operate on the specified resource.	You are not authorized to operate on this resource.
400	Resource. QuotaFull	The quota of resource is full	The resource quota has been reached.
404	InvalidCus tomerGatew ayInstanceId. NotFound	The specified customer gateway instance id does not exist.	The specified instance does not exist.
404	InvalidVpn GatewayIns tanceId. NotFound	The specified vpn gateway instance id does not exist.	The specified VPN Gateway does not exist.
400	InvalidVpn Connection. AlreadyExists	Vpn connection already exists.	The VPN connection already exists.
400	VpnGateway. Configuring	The specified service is configuring.	The specified service is being configured.

HTTP status code	Error code	Error message	Description
400	VpnGateway.FinancialLocked	The specified service is financial locked.	The specified service is locked due to insufficient account balance.

See common error codes

15.21 DescribeVpnConnections

Queries one or more IPsec connections.

Debug

Use API Explorer to perform debug operations and generate SDK examples.

Request parameters

Parameter	Type	Required?	Example value	Description
`Action`	String	Yes	DescribeVpnConnections	The name of this action. Value: DescribeVpnConnections.
`RegionId`	String	Yes	cn-hangzhou	The ID of the region to which the IPsec connection belongs. To query the region ID, call DescribeRegions.
`CustomerGatewayId`	String	No	cgw-bp1mvj4g9kogwxxxxxxxx	The ID of the customer gateway.
`PageNumber`	Integer	No	1	The number of pages to return. Default value: 1.

Parameter	Type	Required?	Example value	Description
PageSize	Integer	No	10	The number of rows per page. Maximum value: 50. Default value: 10.
VpnGatewayId	String	No	vpn-bp1q8bgx4xnkxxxxxxxx	The ID of the VPN Gateway.

Response parameters

Parameter	Type	Example value	Description
VpnConnections			A list of IPsec connections.
└ IkeConfig			Configurations of phase one negotiation.
└ IkeAuthAlg	String	sha1	The IKE authentication algorithm. Both SHA-1 and MD5 are supported.
└ IkeEncAlg	String	aes	The IKE encryption algorithm.
└IkeLifetime	Long	86400	The IKE lifetime.
└IkeMode	String	main	The IKE mode. Both main mode and aggressive mode are supported. The main mode features high security. If NAT traversal is enabled, we recommend that you select the aggressive mode.
└IkePfs	String	group2	The DH group. Valid values: group1 | group2 | group5 | group14 | group24

Parameter	Type	Example value	Description
└IkeVersion	String	ikev1	The IKE version.
└LocalId	String	116.xx.xx.64	The local ID. It is the IP address of the VPN Gateway by default. Both FQDN and IP formats are supported .
└Psk	String	pgw6dy7dxx xxxxxx	The pre-shared key.
└RemoteId	String	139.xx.xx.167	The peer ID. It is the IP address of the customer gateway by default . Both FQDN and IP formats are supported.
└IpsecConfig			Configurations of phase two negotiation.
└IpsecAuthAlg	String	sha1	The IPsec authentication algorithm . Both SHA-1 and MD5 are supported.
└IpsecEncAlg	String	aes	The IPsec encryption algorithm.
└IpsecLifetime	Long	86400	The IPsec encryption algorithm.
└IpsecPfs	String	group2	The DH group.
└VpnConnectionId	String	vco-bp10lz7aejumdxxxxxxxx	The ID of the IPsec connection.
└CustomerGatewayId	String	vpn-bp1q8bgx4xnkxxxxxxxx	The ID of the customer gateway.
└VpnGatewayId	String	vpn-bp1q8bgx4xnkmxxxxxxxx	The ID of the VPN Gateway.

Parameter	Type	Example value	Description
└Name	String	xxxxxxxxxxxx	The name of the IPsec connection.
└ LocalSubnet	String	1.1.1.0/24,1.1.2.0/24	The CIDR block of the VPC.
└ RemoteSubnet	String	1.1.1.0/24,1.1.2.0/24	The CIDR block of the on-premises data center.
└CreateTime	Long	1492753817000	The time at which the IPsec connection was created.
└Status	String	ipsec_sa_established	The connection status. Valid values: · ike_sa_not_established: Phase one negotiation failed. · ike_sa_established: Phase one negotiation succeeded. · ipsec_sa_not_established: Phase two negotiation failed. · ipsec_sa_established: Phase two negotiation succeeded.
└ EffectImmediately	Boolean	true	Indicates whether the IPsec connection takes effect immediately. · true: Reconnection is triggered when there is a change to the network configuration. · false: Reconnection is triggered when traffic is detected over the network. A reconnection may cause intermittent connections.
└ VcoHealthCheck			Health check.
└Dip	String	8.xx.xx.8	The destination IP address.
└Interval	Integer	2	The time interval between two consecutive health checks.

Parameter	Type	Example value	Description
└Sip	String	192.xx.xx.66	The source IP address.
TotalCount	Integer	10	The number of queried entries.
PageNumber	Integer	1	The current page number.
PageSize	Integer	10	The number of entries per page.
RequestId	String	54A4B3D0-DF4D-4C54-B8DC-5DC8DD49C939	The ID of the request.

Examples

Request example

```
 https :// vpc . aliyuncs . com /? Action = DescribeVp  nConnectio
 ns
& RegionId = cn - hangzhou
&< CommonPara  meters >
```

Response example

`XML` format

```
< DescribeVp  nConnectio  ns >
  < PageNumber > 1 </ PageNumber >
  < VpnConnect  ions >
    < VpnConnect  ion >
      < Name > vpn   connection   test </ Name >
      < CustomerGa  tewayId > cgw - bp1pvpl9r9  adjxxxxxxx  x </
 CustomerGa  tewayId >
      < RemoteSubn  et > 2 . 2 . 2 . 0 / 24 </ RemoteSubn  et >
      < IpsecConfi  g >
        < IpsecLifet  ime > 86400 </ IpsecLifet  ime >
        < IpsecAuthA  lg > sha1 </ IpsecAuthA  lg >
        < IpsecPfs > group2 </ IpsecPfs >
        < IpsecEncAl  g > aes </ IpsecEncAl  g >
      </ IpsecConfi  g >
      < EffectImme  diately > true </ EffectImme  diately >
      < VpnGateway  Id > vpn - bp1q8bgx4x  nkmxxxxxxx  x </
 VpnGateway  Id >
      < CreateTime > 1492753817  000 </ CreateTime >
      < VpnConnect  ionId > vco - bp10lz7aej  umdxxxxxxx  x </
 VpnConnect  ionId >
      < status > ipsec_sa_e  stablished </ status >
      < LocalSubne  t > 1 . 1 . 1 . 0 / 24 , 1 . 1 . 2 . 0 / 24 </
 LocalSubne  t >
      < IkeConfig >
        < IkeEncAlg > aes </ IkeEncAlg >
        < RemoteId > 139 . xx . xx .  167 </ RemoteId >
        < IkePfs > group2 </ IkePfs >
```

```
        < IkeAuthAlg > sha1 </ IkeAuthAlg >
        < Psk > pgw6dyxxxx  xxxx </ Psk >
        < IkeMode > main </ IkeMode >
        < IkeLifetim  e > 86400 </ IkeLifetim  e >
        < IkeVersion > ikev1 </ IkeVersion >
        < LocalId > 116 . xx . xx .  64 </ LocalId >
      </ IkeConfig >
    </ VpnConnect  ion >
  </ VpnConnect  ions >
  < TotalCount > 1 </ TotalCount >
  < PageSize > 10 </ PageSize >
  < RequestId > 54A4B3D0 - DF4D - 4C54 - B8DC - 5DC8DD49C9  39 </
 RequestId >
</ DescribeVp  nConnectio  ns >
```

`JSON` format

```
{
 " PageNumber ": 1 ,
 " VpnConnect  ions ": {
  " VpnConnect  ion ": [
   {
    " CustomerGa  tewayId ":" cgw - bp1pvpl9r9  adjxxxxxxx  x ",
    " Name ": " vpn   connection   test ",
    " RemoteSubn  et ":" 2 . 2 . 2 . 0 / 24 ",
    " IpsecConfi  g ":{
     " IpsecLifet  ime ": 86400 ,
     " IpsecAuthA  lg ":" sha1 ",
     " IpsecPfs ":" group2 ",
     " IpsecEncAl  g ":" aes "
    },
    " VpnGateway  Id ":" vpn - bp1q8bgx4x  nkmxxxxxxx  x ",
    " EffectImme  diately ": true ,
    " status ":" ipsec_sa_e  stablished ",
    " VpnConnect  ionId ":" vco - bp10lz7aej  umdxxxxxxx  x ",
    " CreateTime ": 1492753817  000 ,
    " LocalSubne  t ":" 1 . 1 . 1 . 0 / 24 , 1 . 1 . 2 . 0 / 24 ",
    " IkeConfig ":{
     " IkeEncAlg ":" aes ",
     " IkePfs ":" group2 ",
     " RemoteId ":" 139 . xx . xx .  167 ",
     " IkeAuthAlg ":" sha1 ",
     " Psk ":" pgw6dyxxxx  xxxx ",
     " IkeMode ":" main ",
     " IkeLifetim  e ": 86400 ,
     " IkeVersion ":" ikev1 ",
     " LocalId ":" 116 . xx . xx .  64 "
    }
   }
  ]
 },
 " TotalCount ": 1 ,
 " PageSize ": 10 ,
 " RequestId ": " 54A4B3D0 - DF4D - 4C54 - B8DC - 5DC8DD49C9  39 "
}
```

Error codes

HTTP status code	Error code	Error message	Description
403	Forbbiden.SubUser	User not authorized to operate on the specified resource as your account is created by another user.	You are not authorized to operate on this resource. Please apply for the permission and try again later.
403	Forbidden	User not authorized to operate on the specified resource.	You are not authorized to operate on this resource. For more information, open a ticket.

See common error codes

15.22 ModifyVpnConnectionAttribute

Modifies the configurations of an IPsec connection.

Debug

By using API Explorer, you can easily debug APIs, automatically generate SDK code examples, and quickly search for APIs.

Request parameters

Parameter	Type	Required?	Example value	Description
`Action`	String	Yes	ModifyVpnConnectionAttribute	The name of this action. Value: `ModifyVpnConnectionAttribute`
`RegionId`	String	Yes	cn-shanghai	The ID of the region to which the IPsec connection belongs. To query the region ID, call `DescribeRegions`.

Parameter	Type	Required?	Example value	Description
`VpnConnectionId`	String	Yes	vco-bp1bbi27hojx80nck9k1i	The ID of the IPsec connection.
`ClientToken`	String	No	02fb3da4-130e-11e9-8e44-0016e04115b	A client token used to guarantee the idempotence of requests. This parameter value is generated by the client and must be unique. It must be 1 to 64 ASCII characters in length.
`EffectImmediately`	Boolean	No	false	Indicates whether to delete a successfully negotiated IPsec tunnel and initiate a negotiation again. Valid value: · `true` : Negotiate immediately after the configuration is completed. · `false` (default): Negotiate when traffic is detected over the network.

Parameter	Type	Required?	Example value	Description
`IkeConfig`	JSON String	No	ikev1, ikev2	The configurations of phase one negotiation: · `IkeConfig.Psk`: Used for authentication between the IPsec VPN gateway and the customer gateway. By default, this parameter is generated randomly and can contain up to 100 characters. You can also manually specify the key. · `IkeConfig.IkeVersion`: The version of the IKE protocol. Valid values: `ikev1` | `ikev2`. Default value: `ikev1`. · `IkeConfig.IkeMode`: The negotiation mode of IKE V1. Valid values: `main` (`main mode`) | `aggressive` (`aggressive mode`). Default value: `main`. · `IkeConfig.IkeEncAlg`: The encryption algorithm of phase one negotiation. Valid values: `aes` | `aes192` | `aes256` | `des` | `3des`. Default value: `aes`. · `IkeConfig.IkeAuthAlg`: The authentication algorithm of phase one negotiation. Valid values:

Parameter	Type	Required?	Example value	Description
IpsecConfig	JSON String	No	aes	The configurations of phase-two negotiation: · IpsecConfig.IpsecEncAlg: The encryption algorithm of phase-two negotiation. Valid value: aes | aes192 | aes256 | des | 3des. Default value: aes. · IpsecConfig.IpsecAuthAlg: The authentication algorithm of phase-two negotiation. Valid value: md5 | sha1. Default value: sha1. · IpsecConfig.IpsecPfs: Forward packets of all protocols. The Diffie-Hellman key exchange algorithm used by phase-one negotiation. Valid value: group1 | group2 | group5 | group14 | group24. Default value: group2. · IpsecConfig.IpsecLifetime: The SA lifecycle as the result of phase-two negotiation. The valid value is [0, 86400], the unit is second and the default value is 86400.

Parameter	Type	Required?	Example value	Description
`LocalSubnet`	String	Yes	1.1.1.0/24,1.1.2.0/24	The CIDR block of the VPC to be connected with the on-premises data center. This parameter is used for phase two negotiation. Separate multiple CIDR blocks with commas (,). For example, 192.168.1.0/24,192.168.2.0/24.
`Name`	String	No	IPsec	The name of the IPsec connection. The name must be 2 to 128 characters in length and can contain letters, numbers, periods (.), underscores (_), and hyphens (-). The name must start with a letter. It cannot start with `http://` or `https://`.
`RemoteSubnet`	String	No	1.1.1.0/24,1.1.2.0/24	The CIDR block of the local data center. This parameter is used for phase-two negotiation. Separate multiple CIDR blocks with commas (,). For example, 92.168.3.0/24, 192.168.4.0/24.

Response parameters

Parameter	Type	Example value	Description
VpnConnectionId	String	vco-bp1bbi27hojx80nck9k1i	The ID of the IPsec connection.
CustomerGatewayId	String	vpn-bp1q8bgx4xnkm2ogj0fiu	The ID of the customer gateway.
VpnGatewayId	String	vpn-bp1q8bgx4xnkm2ogj0fiu	The ID of the VPN Gateway.
Name	String	xxxxxxx	The name of the IPsec connection.

Parameter	Type	Example value	Description
LocalSubnet	String	1.1.1.0/24,1.1.2.0/24	The CIDR block of the VPC.
RemoteSubnet	String	1.1.1.0/24,1.1.2.0/24	The CIDR block of the on-premises data center.
CreateTime	Long	1492753817000	The time at which the IPsec connection was created.
Description	String	xxxxxxx	The description.
EffectImmediately	Boolean	false	Indicates whether the IPsec connection takes effect immediately.
IkeConfig			Configurations of phase one negotiation.
└IkeAuthAlg	String	sha1	The IKE authentication algorithm. SHA-1 and MD5 are supported.
└IkeEncAlg	String	aes	The IKE encryption algorithm.
└IkeLifetime	Long	86400	The IKE lifetime.
└IkeMode	String	main	The IKE mode. Both main mode and aggressive mode are supported. The main mode features high security. If NAT traversal is enabled, we recommend that you select the aggressive mode.
└IkePfs	String	group2	The DH group. Valid values:group1 | group2 | group5 | group14 | group24
└IkeVersion	String	ikev1	The IKE version.

Parameter	Type	Example value	Description
└LocalId	String	116.62.69.64	The local ID. It is the IP address of the VPN Gateway by default. Both FQDN and IP formats are supported.
└Psk	String	pgw6dy7d1i8in7x5	The pre-shared key.
└RemoteId	String	139.196.32.167	The peer ID. By default, it is the IP address of the customer gateway. Both FQDN and IP formats are supported.
IpsecConfig			Configurations of phase two negotiation.
└IpsecAuthAlg	String	sha1	The IPsec authentication algorithm. Both SHA-1 and MD5 are supported.
└IpsecEncAlg	String	aes	The IPsec encryption algorithm.
└IpsecLifetime	Long	86400	The IPsec lifetime.
└IpsecPfs	String	group2	The DH group.
RequestId	String	7DB79D0C-5F27-4AB5-995B-79BE55102F90	The ID of the request.

Examples

Request example

```
 https :// vpc . aliyuncs . com /? Action = ModifyVpnC  onnectionA
 ttribute
& RegionId =  cn - shanghai
& VpnConnect  ionId = vco - bp1bbi27ho  jx80nck9k1  i
&< CommonPara  meters >
```

Response example

- **XML format**

```
< ModifyVpnC  onnectionA  ttributeRe  sponse >
  < Name > vpn   connection   test </ Name >
  < CustomerGa  tewayId > cgw - bp1pvpl9r9  adju6l5nxc  k </
 CustomerGa  tewayId >
  < RemoteSubn  et > 2 . 2 . 2 . 0 / 24 </ RemoteSubn  et >
  < IpsecConfi  g >
    < IpsecLifet  ime > 86400 </ IpsecLifet  ime >
    < IpsecAuthA  lg > sha1 </ IpsecAuthA  lg >
    < IpsecPfs > group2 </ IpsecPfs >
    < IpsecEncAl  g > aes </ IpsecEncAl  g >
  </ IpsecConfi  g >
  < EffectImme  diately > false </ EffectImme  diately >
  < VpnGateway  Id > vpn - bp1q8bgx4x  nkm2ogj0fi  u </ VpnGateway
 Id >
  < CreateTime > 1492753817  000 </ CreateTime >
  < VpnConnect  ionId > vco - bp10lz7aej  umd2vxoqge  v </
 VpnConnect  ionId >
  < RequestId > 57070A3D - 38F2 - 40A6 - A1C9 - DB14542EF5  4D </
 RequestId >
  < LocalSubne  t > 1 . 1 . 1 . 0 / 24 , 1 . 1 . 2 . 0 / 24 </
 LocalSubne  t >
  < IkeConfig >
    < IkeEncAlg > aes </ IkeEncAlg >
    < RemoteId > 139 . 196 . 32 . 167 </ RemoteId >
    < IkePfs > group2 </ IkePfs >
    < IkeAuthAlg > sha1 </ IkeAuthAlg >
    < Psk > pgw6dy7d1i  8in7x5 </ Psk >
    < IkeMode > main </ IkeMode >
    < IkeLifetim  e > 86400 </ IkeLifetim  e >
    < IkeVersion > ikev1 </ IkeVersion >
    < LocalId > 116 . 62 . 69 . 64 </ LocalId >
  </ IkeConfig >
</ ModifyVpnC  onnectionA  ttributeRe  sponse >
```

- **JSON format**

```
{
 " CustomerGa  tewayId ":" cgw - bp1pvpl9r9  adju6l5nxc  k ",
 " Name ":" vpn   connection   test ",
 " RemoteSubn  et ":" 2 . 2 . 2 . 0 / 24 ",
 " IpsecConfi  g ":{
  " IpsecLifet  ime ": 86400 ,
  " IpsecAuthA  lg ":" sha1 ",
  " IpsecPfs ":" group2 ",
  " IpsecEncAl  g ":" aes "
 },
 " VpnGateway  Id ":" vpn - bp1q8bgx4x  nkm2ogj0fi  u ",
 " EffectImme  diately ": false ,
 " RequestId ":" 7DB79D0C - 5F27 - 4AB5 - 995B - 79BE55102F  90 ",
 " VpnConnect  ionId ":" vco - bp10lz7aej  umd2vxoqge  v ",
 " CreateTime ": 1492753817  000 ,
 " LocalSubne  t ":" 1 . 1 . 1 . 0 / 24 , 1 . 1 . 2 . 0 / 24 ",
 " IkeConfig ":{
  " IkeEncAlg ":" aes ",
  " IkePfs ":" group2 ",
  " RemoteId ":" 139 . 196 . 32 . 167 ",
  " IkeAuthAlg ":" sha1 ",
  " Psk ":" pgw6dy7d1i  8in7x5 ",
  " IkeMode ":" main ",
  " IkeLifetim  e ": 86400 ,
```

```
  " IkeVersion ":" ikev1 ",
  " LocalId ":" 116 . 62 . 69 . 64 "
 }
}
```

Error codes

HTTP status code	Error code	Error message	Description
403	Forbbiden. SubUser	User not authorized to operate on the specified resource as your account is created by another user.	You are not authorized to operate on this resource.
403	Forbidden	User not authorized to operate on the specified resource.	You are not authorized to operate on this resource.
404	InvalidVpn Connection InstanceId. NotFound	The specified vpn connection instance id does not exist.	The specified VPN connection does not exist.
400	VpnGateway. Configuring	The specified service is configuring.	The specified service is been configured.
400	VpnGateway. FinancialLocked	The specified service is financial locked.	The specified service is financial locked.
400	InvalidName	The name is not valid	The name format is invalid.

See common error codes

15.23 CreateSslVpnClientCert

Creates an SSL-VPN client certificate.

Debug

By using API Explorer, you can easily debug APIs, automatically generate SDK code examples, and quickly search for APIs.

Request parameters

Parameter	Type	Required?	Example value	Description
`Action`	String	Yes	CreateSslVpnClientCert	The name of this action. Value: `CreateSslVpnClientCert`
`RegionId`	String	Yes	cn-hangzhou	The ID of the region to which the VPN Gateway belongs. To query the region ID, call `DescribeRegions`.
`SslVpnServerId`	String	Yes	vss-m5et0q3iy1qex328wcujx	The ID of the SSL-VPN server to be used.
`ClientToken`	String	No	02fb3da4-130e-11e9-8e44-0016e04115b	A client token used to guarantee the idempotence of requests. This parameter value is generated by the client and must be unique. It must be 1 to 64 ASCII characters in length.
`Name`	String	No	SslVpnClientCert1	The name of the client certificate. The name must be 2 and 128 characters in length and can contain letters, numbers, periods (.), underscores (_), and hyphens (-). The name must start with a letter. It cannot start with `http://` or `https://`.

Parameter	Type	Required?	Example value	Description
OwnerAccount	String	No	test	The account of the owner of the SSL-VPN client certificate.

Response parameters

Parameter	Type	Example value	Description
Name	String	SslVpnClientCert	The name of the client certificate.
RequestId	String	079874CD-AEC1-43E6-AC03-ADD96B6E4907	The ID of the request.
SslVpnClientCertId	String	vsc-m5euof6s5jy8vs5kdz2r2	The ID of the client certificate.

Examples

Request example

```
https://vpc.aliyuncs.com/?Action=CreateSslVpnClientCert
&RegionId=cn-hangzhou
&SslVpnServerId=vss-m5et0q3iy1qex328wcujx
&<CommonParameters>
```

Response example

- XML format

```
<CreateSslVpnClientCertResponse>
  <SslVpnClientCertId>vsc-bp1n8wcf134yl0osrcg98</SslVpnClientCertId>
  <RequestId>606998F0-B94D-48FE-8316-ACA81BB230DA</RequestId>
</CreateSslVpnClientCertResponse>
```

- JSON format

```
{
  "RequestId":"606998F0-B94D-48FE-8316-ACA81BB230DA",
  "SslVpnClientCertId":"vsc-bp1n8wcf134yl0osrcg98"
```

```
}
```

Error codes

HTTP status code	Error code	Error message	Description
403	Forbbiden.SubUser	User not authorized to operate on the specified resource as your account is created by another user.	You are not authorized to operate on this resource. Please apply for the permission and try again.
403	Forbidden	User not authorized to operate on the specified resource.	You are not authorized to operate on this resource. For more information, open a ticket.
400	Resource.QuotaFull	The quota of resource is full	The resource quota has been reached.
400	VpnGateway.Configuring	The specified service is configuring.	The service is being configured. Please try again later.
400	VpnGateway.FinancialLocked	The specified service is financial locked.	The service has an overdue payment. Renew your account to settle the overdue payment.
400	InvalidName	The name is not valid	The name format is invalid.

See common error codes

15.24 DescribeSslVpnClientCerts

Queries SSL-VPN client certificates.

Debug

By using API Explorer, you can easily debug APIs, automatically generate SDK code examples, and quickly search for APIs.

Request parameters

Parameter	Type	Required?	Example value	Description
`Action`	String	Yes	DescribeSslVpnClientCerts	The name of this action. Value: `DescribeSslVpnClientCerts`
`RegionId`	String	Yes	cn-hangzhou	The ID of region to which the SSL-VPN client certificate belongs. To query the region ID, call `DescribeRegions`.
`Name`	String	No	cert1	The name of the SSL-VPN client certificate.
`PageNumber`	Integer	No	1	The number of pages to return. Default value: `1` .
`PageSize`	Integer	No	10	The number of rows per page. Maximum value: `50` . Default value: `10` .
`SslVpnClientCertId`	String	No	vsc-bp1n8wcf134yl0osrcg98	The ID of the client certificate.
`SslVpnServerId`	String	No	vss-bp18q7hzj6largv4vk2fe	The ID of the SSL-VPN.

Response parameters

Parameter	Type	Example value	Description
PageNumber	Integer	1	The current page number.
PageSize	Integer	10	The number of entries per page.
RequestId	String	5BE01CD7-5A50-472D-AC14-CA181C5C03BE	The ID of the request.

Parameter	Type	Example value	Description
SslVpnClientCertKeys	N/A	N/A	A list of SSL-VPN client certificates.
└CreateTime	Long	1492747187000	The time at which the client certificate was created.
└EndTime	Long	1494966335000	The time at which the client certificate is to expire.
└Name	String	cert1	The name of the client certificate.
└RegionId	String	cn-hangzhou	The region of the SSL-VPN client certificate.
└SslVpnClientCertId	String	vsc-bp1n8wcf134yl0osrcg98	The ID of the SSL-VPN client certificate.
└SslVpnServerId	String	vss-bp18q7hzj6largv4vk2fe	The ID of the SSL-VPN server.
└Status	String	normal	The status of the client certificate: · expiring-soon: The certificate will expire after one week. · normal: The certificate is valid. . · expired: The certificate has expired.
TotalCount	Integer	1	The number of queried entries.

Examples

Request example

```
 https :// vpc . aliyuncs . com /? Action = DescribeSs  lVpnClient
 Certs
& RegionId = cn - hangzhou
&< CommonPara  meters >
```

Response example

· XML format

```
< DescribeSs  lVpnServer  sResponse >
```

```
  < PageNumber > 1 </ PageNumber >
  < TotalCount > 1 </ TotalCount >
  < PageSize > 10 </ PageSize >
  < SslVpnServ  ers >
    < SslVpnServ  er >
      < RegionId > cn - hanghzou </ RegionId >
      < SslVpnServ  erId > vss - bp18q7hzj6  largv4vk2f  e </
 SslVpnServ  erId >
      < VpnGateway  Id > vpn - bp1q8bgx4x  nkm2ogj0fi  u </
 VpnGateway  Id >
      < Name > test </ Name >
      < CLientIpPo  ol > 10 . 10 . 10 . 20 / 24 </ CLientIpPo  ol >
      < LocalSubne  t > 10 . 10 . 10 . 10 / 24 </ LocalSubne  t >
      < Proto > UDP </ Proto >
      < Port > 1194 </ Port >
      < Cipher > AES - 128 - CBC </ Cipher >
      < Compress > true </ Compress >
      < CreateTime > 1492753580  000 </ CreateTime >
      < Connection  s > 0 </ Connection  s >
      < MaxConnect  ions > 5 </ MaxConnect  ions >
      < InternetIp > 47 . 98 . xx . xx </ InternetIp >
    </ SslVpnServ  er >
  </ SslVpnServ  ers >
  < RequestId > DF11D6F6 - E35A - 41C3 - 9B20 - 6FC8A901FE  65 </
 RequestId >
</ DescribeSs  lVpnServer  sResponse >
```

- **JSON format**

```
{
 " DescribeSs  lVpnServer  sResponse ":{
  " PageNumber ":" 1 ",
  " TotalCount ":" 1 ",
  " SslVpnServ  ers ":{
   " SslVpnServ  er ":{
    " VpnGateway  Id ":" vpn - bp1q8bgx4x  nkm2ogj0fi  u ",
    " CLientIpPo  ol ":" 10 . 10 . 10 . 20 / 24 ",
    " Proto ":" UDP ",
    " Cipher ":" AES - 128 - CBC ",
    " InternetIp ":" 47 . 98 . xx . xx ",
    " SslVpnServ  erId ":" vss - bp18q7hzj6  largv4vk2f  e ",
    " Name ":" test ",
    " Port ":" 1194 ",
    " MaxConnect  ions ":" 5 ",
    " RegionId ":" cn - hanghzou ",
    " CreateTime ":" 1492753580  000 ",
    " Compress ":" true ",
    " LocalSubne  t ":" 10 . 10 . 10 . 10 / 24 ",
    " Connection  s ":" 0 "
   }
  },
  " PageSize ":" 10 ",
  " RequestId ":" DF11D6F6 - E35A - 41C3 - 9B20 - 6FC8A901FE  65 "
 }
```

```
}
```

Error codes

HTTP status code	Error code	Error message	Description
403	Forbbiden.SubUser	User not authorized to operate on the specified resource as your account is created by another user.	You are not authorized to operate on this resource. Please apply for the permission and try again.
403	Forbidden	User not authorized to operate on the specified resource.	You are not authorized to operate on this resource. For more information, open a ticket.

See common error codes

15.25 DeleteVpnPbrRouteEntry

Deletes a VPN policy route.

Debug

Use OpenAPI Explorer to perform debug operations and generate SDK code examples.

Request parameters

Parameter	Type	Required?	Example value	Description
`Action`	String	Yes	DeleteVpnPbrRouteEntry	The name of this action. Value: DeleteVpnPbrRouteEntry.
`NextHop`	String	Yes	vco-bp15oes1py4i66rmd****	The next hop of the policy route.
`RegionId`	String	Yes	cn-hangzhou	The ID of the region to which the VPN policy route belongs. To query the region ID, call DescribeRegions.

Parameter	Type	Required?	Example value	Description
RouteDest	String	Yes	10.0.0.0/24	The destination CIDR block of the policy route.
RouteSource	String	Yes	192.168.1.0/24	The source CIDR block of the policy route.
VpnGatewayId	String	Yes	vpn-bp1a3kqjiiq9legfx****	The ID of the VPN Gateway.
Weight	Integer	Yes	0	The weight of the policy route. Valid values: 0|100.
ClientToken	String	No	d7d24a21-f4ba-4454-9173-b3828dae492b	The client token used to guarantee the idempotence of the request. The value of this parameter is generated by the client and must be unique among different requests. It must be 1 to 64 ASCII characters in length.

Response parameters

Parameter	Type	Example value	Description
RequestId	String	5BE01CD7-5A50-472D-AC14-CA181C5C03BE	The ID of the request.

Examples

Request example

```
 http ( s )://[ Endpoint ]/?  Action = DeleteVpnP  brRouteEnt  ry
& NextHop = vco - bp15oes1py  4i66rmd ****
& RegionId = cn - hangzhou
& RouteDest = 10 . 0 . 0 . 0 / 24
& RouteSourc  e = 192 . 168 . 1 . 0 / 24
```

```
& VpnGateway  Id = vpn - bp1a3kqjii  q9legfx ****
& Weight = 0
&< CommonPara  meters >
```

Response example

`XML` format

```
< DeleteVpnP  brRouteEnt  ryResponse >
      < RequestId > 5BE01CD7 - 5A50 - 472D - AC14 - CA181C5C03  BE </
 RequestId >
</ DeleteVpnP  brRouteEnt  ryResponse >
```

`JSON` format

```
{
 " RequestId ":" E82612A9 - CB90 - 4D7E - B394 - 1DB7F6509B  29 "
}
```

Errors

HTTP status code	Error code	Error message	Description
403	Forbidden.SubUser	User not authorized to operate on the specified resource as your account is created by another user.	You are not authorized to use this resource. Apply for the permission and try again.
403	Forbidden	User not authorized to operate on the specified resource.	You are not authorized to use this resource. For more information, open a ticket.
400	Resource.QuotaFull	The quota of resource is full.	The resource quota has been reached.
404	InvalidVpnGatewayInstanceId.NotFound	The specified vpn gateway instance id does not exist.	The specified VPN Gateway does not exist.
400	VpnGateway.Configuring	The specified service is configuring.	The specified service is being configured.
400	VpnGateway.FinancialLocked	The specified service is financial locked.	The specified service is locked due to insufficient account balance.

For a list of error codes, visit the API Error Center.

15.26 DeleteVpnRouteEntry

Deletes a VPN destination route.

Debug

Use OpenAPI Explorer to perform debug operations and generate SDK code examples.

Request parameters

Parameter	Type	Required?	Example value	Description
`Action`	String	Yes	DeleteVpnRouteEntry	The name of this action. Value: DeleteVpnRouteEntry.
`NextHop`	String	Yes	vco-bp15oes1py4i66rmd****	The next hop of the destination route.
`RegionId`	String	Yes	cn-hangzhou	The ID of the region to which the VPN destination route belongs. To query the region ID, call DescribeRegions.
`RouteDest`	String	Yes	10.0.0.0/24	The destination CIDR block of the destination route.
`VpnGatewayId`	String	Yes	vpn-bp1a3kqjiiq9legfx****	The ID of the VPN Gateway.
`Weight`	Integer	Yes	0	The weight of the destination route. Valid values: 0|100.

Parameter	Type	Required?	Example value	Description
ClientToken	String	No	d7d24a21-f4ba-4454-9173-b3828dae492b	The client token used to guarantee the idempotence of the request. The value of this parameter is generated by the client and must be unique among different requests. It must be 1 to 64 ASCII characters in length.

Response parameters

Parameter	Type	Example value	Description
RequestId	String	5BE01CD7-5A50-472D-AC14-CA181C5C03BE	The ID of the request.

Examples

Request example

```
http(s)://[Endpoint]/?Action=DeleteVpnRouteEntry
&NextHop=vco-bp15oes1py4i66rmd****
&RegionId=cn-hangzhou
&RouteDest=10.0.0.0/24
&VpnGatewayId=vpn-bp1a3kqjiiq9legfx****
&Weight=0
&<CommonParameters>
```

Response example

`XML` format

```
<DeleteVpnRouteEntryResponse>
        <RequestId>5BE01CD7-5A50-472D-AC14-CA181C5C03BE
</RequestId>
</DeleteVpnRouteEntryResponse>
```

`JSON` format

```
{
"RequestId":"E82612A9-CB90-4D7E-B394-1DB7F6509B29"
```

```
}
```

Errors

HTTP status code	Error code	Error message	Description
403	Forbidden.SubUser	User not authorized to operate on the specified resource as your account is created by another user.	You are not authorized to use this resource. Apply for the permission and try again later.
403	Forbidden	User not authorized to operate on the specified resource.	You are not authorized to use this resource. For more information, open a ticket.
400	Resource.QuotaFull	The quota of resource is full.	The resource quota has been reached.
404	InvalidVpnGatewayInstanceId.NotFound	The specified vpn gateway instance id does not exist.	The specified VPN Gateway does not exist.
400	VpnGateway.Configuring	The specified service is configuring.	The specified service is being configured.
400	VpnGateway.FinancialLocked	The specified service is financial locked.	The specified service is locked due to insufficient account balance.

For a list of error codes, visit the API Error Center.

15.27 DescribeVpnRouteEntries

Queries a VPN destination route.

Debug

Use OpenAPI Explorer to perform debug operations and generate SDK code examples.

Request parameters

Parameter	Type	Required?	Example value	Description
`Action`	String	Yes	DescribeVpnRouteEntries	The name of this action. Value: DescribeVpnRouteEntries.
`RegionId`	String	Yes	cn-hangzhou	The ID of the region to which the VPN destination route belongs. To query the region ID, call DescribeRegions.
`VpnGatewayId`	String	Yes	vpn-bp1a3kqjiiq9legfx****	The ID of the VPN Gateway.
`PageNumber`	Integer	No	1	The page number. Default value: 1.
`PageSize`	Integer	No	10	The number of rows per page in the paged query. Maximum value: 50. Default value: 10.

Response parameters

Parameter	Type	Example value	Description
PageNumber	Integer	10	The current page number.
PageSize	Integer	10	The number of entries per page.
RequestId	String	0ED8D006-F706-4D23-88ED-E11ED28DCAC0	The ID of the request.
TotalCount	Integer	10	The total number of entries.
VpnRouteEntries			The details of the VPN destination route.

Parameter	Type	Example value	Description
CreateTime	Long	1492747187000	The time when the VPN route was created.
NextHop	String	vco-bp15oes1py4i66rmd****	The next hop of the destination route.
RouteDest	String	10.0.0.0/24	The destination CIDR block of the destination route.
State	String	published	The status of the VPN destination route.
VpnInstanceId	String	vpn-bp1cmw7jh1nfe43m9****	The ID of the VPN Gateway.
Weight	Integer	0	The weight of the destination route. Valid values: 0|100.

Examples

Request example

```
 http ( s )://[ Endpoint ]/?  Action = DescribeVp  nRouteEntr  ies
& RegionId = cn - hangzhou
& VpnGateway  Id = vpn - bp1a3kqjii  q9legfx ****
&< CommonPara  meters >
```

Response example

`XML` format

```
< DescribeVp  nRouteEntr  iesRespons  e >
   < PageNumber > 1 </ PageNumber >
   < TotalCount > 1 </ TotalCount >
   < VpnRouteEn  tries >
      < VpnRouteEn  try >
         < RouteDest > 10 . 0 . 0 . 0 / 24 </ RouteDest >
         < VpnInstanc  eId > vpn - bp1cmw7jh1  nfe43m9 ****</
 VpnInstanc  eId >
         < State > normal </ State >
         < Weight > 100 </ Weight >
         < CreateTime > 1563874074  000 </ CreateTime >
         < NextHop > vco - bp1tui07ob  10fmuro ****</ NextHop >
      </ VpnRouteEn  try >
   </ VpnRouteEn  tries >
   < PageSize > 10 </ PageSize >
```

```
    < RequestId > BF3995A6 - FA4F - 4C74 - B90F - 89ECF4BFF4  D5 </
 RequestId >
</ DescribeVp  nRouteEntr  iesRespons  e >
```

`JSON` format

```
{
 " PageNumber ": 1 ,
 " TotalCount ": 1 ,
 " PageSize ": 10 ,
 " VpnRouteEn  tries ":{
  " VpnRouteEn  try ":[
   {
    " RouteDest ":" 10 . 0 . 0 . 0 / 24 ",
    " VpnInstanc  eId ":" vpn - bp1cmw7jh1  nfe43m9 ****",
    " Weight ": 100 ,
    " State ":" normal ",
    " NextHop ":" vco - bp1tui07ob  10fmuro ****",
    " CreateTime ": 1563874074  000
   }
  ]
 },
 " RequestId ":" BF3995A6 - FA4F - 4C74 - B90F - 89ECF4BFF4  D5 "
}
```

Errors

HTTP status code	Error code	Error message	Description
403	Forbidden. SubUser	User not authorized to operate on the specified resource as your account is created by another user.	You are not authorized to use this resource. Apply for the permission and try again.
403	Forbidden	User not authorized to operate on the specified resource.	You are not authorized to use this resource. For more information, open a ticket.

For a list of error codes, visit the API Error Center.

15.28 PublishVpnRouteEntry

Publishes a VPN route to a VPC.

Debug

Use OpenAPI Explorer to perform debug operations and generate SDK code examples.

Request parameters

Parameter	Type	Required?	Example value	Description
`Action`	String	Yes	PublishVpnRouteEntry	The name of this action. Value: PublishVpnRouteEntry.
`NextHop`	String	Yes	vco-bp15oes1py4i66rmd****	The next hop of the VPN route.
`PublishVpc`	Boolean	Yes	true	Indicates whether to publish the VPN route to the VPC. Valid values: · true: The VPN route is published to the VPC. · false: The VPN route is not published to the VPC.
`RegionId`	String	Yes	cn-hangzhou	The ID of the region to which the VPN route belongs. To query the region ID, call DescribeRegions.
`RouteDest`	String	Yes	10.0.0.0/24	The destination CIDR block of the VPN route.
`RouteType`	String	Yes	pbr	The type of the VPN route. Valid values: · pbr: policy route. · dbr: destination route.
`VpnGatewayId`	String	Yes	vpn-bp1a3kqjiiq9legfx****	The ID of the VPN Gateway.

Parameter	Type	Required?	Example value	Description
`ClientToken`	String	No	d7d24a21-f4ba-4454-9173-b3828dae492b	The client token used to guarantee the idempotence of the request. The value of this parameter is generated by the client and must be unique among different requests. It must be 1 to 64 ASCII characters in length.

Response parameters

Parameter	Type	Example value	Description
RequestId	String	5BE01CD7-5A50-472D-AC14-CA181C5C03BE	The ID of the request.

Examples

Request example

```
http(s)://[Endpoint]/?Action=PublishVpnRouteEntry
&NextHop=vco-bp15oes1py4i66rmd****
&PublishVpc=true
&RegionId=cn-hangzhou
&RouteDest=10.0.0.0/24
&RouteType=PBR
&VpnGatewayId=vpn-bp1a3kqjiiq9legfx****
&<CommonParameters>
```

Response example

`XML` format

```
<PublishVpnRouteEntryResponse>
    <RequestId>EE4C2417-9437-4333-BDEB-8493F7AA7258</RequestId>
</PublishVpnRouteEntryResponse>
```

`JSON` format

```
{
```

```
 " RequestId ":" CB2793A8 - 845F - 444C - 8E93 - 76F1BBDF9C  78 "
}
```

Errors

HTTP status code	Error code	Error message	Description
403	Forbidden. SubUser	User not authorized to operate on the specified resource as your account is created by another user.	You are not authorized to use this resource. Apply for the permission and try again.
403	Forbidden	User not authorized to operate on the specified resource.	You are not authorized to use this resource. For more information, open a ticket.
400	Resource. QuotaFull	The quota of resource is full.	The resource quota has been reached.
404	InvalidVpn GatewayIns tanceId. NotFound	The specified vpn gateway instance id does not exist.	The specified VPN Gateway does not exist.
400	VpnGateway. Configuring	The specified service is configuring.	The specified service is being configured.
400	VpnGateway. FinancialLocked	The specified service is financial locked.	The specified service is locked due to insufficient account balance.

For a list of error codes, visit the API Error Center.

15.29 ModifyVpnPbrRouteEntryWeight

Modifies the weight of the VPN policy route.

Debug

Use OpenAPI Explorer to perform debug operations and generate SDK code examples.

Request parameters

Parameter	Type	Required?	Example value	Description
`Action`	String	Yes	ModifyVpnPbrRouteEntryWeight	The name of this action. Value: ModifyVpnPbrRouteEntryWeight.
`NewWeight`	Integer	Yes	100	The new weight. Valid values: 0|100.
`NextHop`	String	Yes	vco-bp15oes1py4i66rmd****	The next hop of the policy route.
`RegionId`	String	Yes	cn-hangzhou	The ID of the region to which the VPN policy route belongs. To query the region ID, call DescribeRegions.
`RouteDest`	String	Yes	10.0.0.0/24	The destination CIDR block of the policy route.
`RouteSource`	String	Yes	192.168.1.0/24	The source CIDR block of the policy route.
`VpnGatewayId`	String	Yes	vpn-bp1a3kqjiiq9legfx****	The ID of the VPN Gateway.
`Weight`	Integer	Yes	0	The weight set before the VPN policy route is modified. Valid values: 0|100.

Parameter	Type	Required?	Example value	Description
ClientToken	String	No	d7d24a21-f4ba-4454-9173-b3828dae492b	The client token used to guarantee the idempotence of the request. The value of this parameter is generated by the client and must be unique among different requests. It must be 1 to 64 ASCII characters in length.
OverlayMode	String	No	Ipsec	The overwrite mode.

Response parameters

Parameter	Type	Example value	Description
RequestId	String	5BE01CD7-5A50-472D-AC14-CA181C5C03BE	The ID of the request.

Examples

Request example

```
 http ( s )://[ Endpoint ]/?  Action = ModifyVpnP  brRouteEnt
 ryWeight
& NewWeight = 100
& NextHop = vco - bp15oes1py  4i66rmd ****
& RegionId = cn - hangzhou
& RouteDest = 10 . 0 . 0 . 0 / 24
& RouteSourc  e = 192 . 168 . 1 . 0 / 24
& VpnGateway  Id = vpn - bp1a3kqjii  q9legfx ****
& Weight = 100
&< CommonPara  meters >
```

Response example

`XML` format

```
< ModifyVpnP  brRouteEnt  ryWeightRe  sponse >
        < RequestId > 5BE01CD7 - 5A50 - 472D - AC14 - CA181C5C03  BE
 </ RequestId >
```

```
</ ModifyVpnP  brRouteEnt  ryWeightRe  sponse >
```

`JSON` format

```
{
 " RequestId ":" E82612A9 - CB90 - 4D7E - B394 - 1DB7F6509B  29 "
}
```

Errors

HTTP status code	Error code	Error message	Description
403	Forbidden. SubUser	User not authorized to operate on the specified resource as your account is created by another user.	You are not authorized to use this resource. Apply for the permission and try again later.
403	Forbidden	User not authorized to operate on the specified resource.	You are not authorized to use this resource. For more information, open a ticket.
400	Resource. QuotaFull	The quota of resource is full.	The resource quota has been reached.
404	InvalidVpn GatewayIns tanceId. NotFound	The specified vpn gateway instance id does not exist.	The specified VPN Gateway does not exist.
400	VpnGateway. Configuring	The specified service is configuring.	The specified service is being configured.
400	VpnGateway. FinancialLocked	The specified service is financial locked.	The specified service is locked due to insufficient account balance.

For a list of error codes, visit the API Error Center.

15.30 CreateVpnRouteEntry

Creates a VPN destination route.

Debug

Use OpenAPI Explorer to perform debug operations and generate SDK code examples.

Request parameters

Parameter	Type	Required?	Example value	Description
`Action`	String	Yes	CreateVpnRouteEntry	The name of this action. Value: CreateVpnRouteEntry.
`NextHop`	String	Yes	vco-bp15oes1py4i66rmd****	The next hop of the destination route.
`PublishVpc`	Boolean	Yes	true	Indicates whether to publish the destination route to the VPC. Valid values: · true: The destination route is published to the VPC. · false: The destination route is not published to the VPC.
`RegionId`	String	Yes	cn-hangzhou	The ID of the region to which the VPN destination route belongs. To query the region ID, call DescribeRegions.
`RouteDest`	String	Yes	10.0.0.0/24	The destination CIDR block of the destination route.
`VpnGatewayId`	String	Yes	vpn-bp1a3kqjiiq9legfx****	The ID of the VPN Gateway.
`Weight`	Integer	Yes	0	The weight of the destination route. Valid values: 0|100.

Parameter	Type	Required?	Example value	Description
`ClientToken`	String	No	d7d24a21-f4ba-4454-9173-b3828dae492b	The client token used to guarantee the idempotence of the request. The value of this parameter is generated by the client and must be unique among different requests. It must be 1 to 64 ASCII characters in length.
`OverlayMode`	String	No	Ipsec	The overwrite mode.

Response parameters

Parameter	Type	Example value	Description
CreateTime	Long	1492747187000	The time when the VPN destination route was created.
NextHop	String	vco-bp15oes1py4i66rmd****	The next hop of the destination route.
OverlayMode	String	Ipsec	The overwrite mode.
RequestId	String	5BE01CD7-5A50-472D-AC14-CA181C5C03BE	The ID of the request.
RouteDest	String	10.0.0.0/24	The destination CIDR block of the destination route.
State	String	published	The status of the VPN destination route.
VpnInstanceId	String	vpn-bp1cmw7jh1nfe43m9****	The ID of the VPN Gateway.

Parameter	Type	Example value	Description
Weight	Integer	0	The weight of the destination route. Valid value:0|100.

Examples

Request example

```
 http ( s )://[ Endpoint ]/?  Action = CreateVpnR  outeEntry
& NextHop = vco - bp15oes1py  4i66rmd ****
& PublishVpc = true
& RegionId = cn - hangzhou
& RouteDest = 10 . 0 . 0 . 0 / 24
& VpnGateway  Id = vpn - bp1a3kqjii  q9legfx ****
& Weight = 0
&< CommonPara  meters >
```

Response example

`XML` format

```
< CreateVpnR  outeEntryR  esponse >
   < RouteDest > 10 . 0 . 0 . 0 / 24 </ RouteDest >
   < VpnInstanc  eId > vpn - bp1cmw7jh1  nfe43m9 ****</ VpnInstanc
 eId >
   < OverlayMod  e > Ipsec </ OverlayMod  e >
   < State > published </ State >
   < Weight > 100 </ Weight >
   < CreateTime > 1563873294  331 </ CreateTime >
   < NextHop > vco - bp1tui07ob  10fmuro ****</ NextHop >
      < RequestId > EE4C2417 - 9437 - 4333 - BDEB - 8493F7AA72  58 </
 RequestId >
</ CreateVpnR  outeEntryR  esponse >
```

`JSON` format

```
{
 " RouteDest ":" 10 . 0 . 0 . 0 / 24 ",
 " VpnInstanc  eId ":" vpn - bp1cmw7jh1  nfe43m9 ****",
 " OverlayMod  e ":" Ipsec ",
 " Weight ": 100 ,
 " State ":" published ",
 " RequestId ":" CB2793A8 - 845F - 444C - 8E93 - 76F1BBDF9C  78 ",
 " NextHop ":" vco - bp1tui07ob  10fmuro ****",
 " CreateTime ": 1563873294  331
```

```
}
```

Errors

HTTP status code	Error code	Error message	Description
403	Forbidden.SubUser	User not authorized to operate on the specified resource as your account is created by another user.	You are not authorized to use this resource. Apply for the permission and try again.
403	Forbidden	User not authorized to operate on the specified resource.	You are not authorized to use this resource. For more information, open a ticket.
400	Resource.QuotaFull	The quota of resource is full.	The resource quota has been reached.
404	InvalidVpnGatewayInstanceId.NotFound	The specified vpn gateway instance id does not exist.	The specified VPN Gateway does not exist.
400	VpnGateway.Configuring	The specified service is configuring.	The specified service is being configured.
400	VpnGateway.FinancialLocked	The specified service is financial locked.	The specified service is locked due to insufficient account balance.

For a list of error codes, visit the API Error Center.

15.31 DescribeVpnSslServerLogs

Views the logs of an SSL server.

Debug

Use OpenAPI Explorer to perform debug operations and generate SDK code examples.

Request parameters

Parameter	Type	Required?	Example value	Description
`Action`	String	Yes	DescribeVpnSslServerLogs	The name of this action. Value: DescribeVpnSslServerLogs.
`RegionId`	String	Yes	cn-hangzhou	The ID of the region to which the SSL server belongs. To query the region ID, call DescribeRegions.
`VpnSslServerId`	String	Yes	vss-bp155e9yclsg1xgq4****	The ID of the SSL server.
`From`	Integer	No	2018020201	The start time of the log.
`MinutePeriod`	Integer	No	10	The cycle of the log.
`PageNumber`	Integer	No	1	The page number. Default value: 1.
`PageSize`	Integer	No	10	The number of rows per page in the paged query. Maximum value: 50. Default value: 10.
`To`	Integer	No	2018020206	The end time of the log.

Response parameters

Parameter	Type	Example value	Description
Count	Integer	10	The number of log entries.
Data		test	The array. Each item in the array is a log entry.

Parameter	Type	Example value	Description
IsCompleted	Boolean	true	Indicates whether the queried log is accurate. Valid values: · true: The queried log is accurate. · false: The queried log is inaccurate.
PageNumber	Integer	1	The current page number.
PageSize	Integer	1	The number of entries per page.
RequestId	String	5BE01CD7-5A50-472D-AC14-CA181C5C03BE	The ID of the request.

Examples

Request example

```
 http ( s )://[ Endpoint ]/?  Action = DescribeVp  nSslServer  Logs
& RegionId = cn - hangzhou
& VpnSslServ  erId = vss - bp155e9ycl  sg1xgq4 ****
&< CommonPara  meters >
```

Response example

`XML` format

```
< DescribeVp  nSslServer  LogsRespon  se >
   < Data ></ Data >
   < PageNumber > 1 </ PageNumber >
   < Count > 0 </ Count >
   < PageSize > 10 </ PageSize >
   < IsComplete  d > true </ IsComplete  d >
   < RequestId > 26641E42 - 66C7 - 4942 - 9FEC - F99213914F  8F </
 RequestId >
</ DescribeVp  nSslServer  LogsRespon  se >
```

`JSON` format

```
{
 " PageNumber ": 1 ,
 " Data ":{
  " Logs ":[]
 },
 " Count ": 0 ,
 " IsComplete  d ": true ,
 " PageSize ": 10 ,
 " RequestId ":" 26641E42 - 66C7 - 4942 - 9FEC - F99213914F  8F "
```

```
}
```

Errors

HTTP status code	Error code	Error message	Description
403	Forbidden.SubUser	User not authorized to operate on the specified resource as your account is created by another user.	You are not authorized to use this resource. Apply for the permission and try again.
403	Forbidden	User not authorized to operate on the specified resource.	You are not authorized to use this resource. For more information, open a ticket.

For a list of error codes, visit the API Error Center.

16 NAT Gateway

16.1 CreateNatGateway

Create a NAT Gateway.

Note the following before creating a NAT Gateway:

- A NAT Gateway and a self-hosted SNAT Gateway cannot coexist in a VPC.
- After a NAT Gateway is created, a route entry of which the destination CIDR block is 0.0.0.0/0 and the next hop is the NAT Gateway is automatically added to the route table of the VPC. This means that traffic can be routed to the NAT Gateway.
- If a route entry of which the destination CIDR block is 0.0.0.0/0 already exists in the route table of the VPC, you need to delete the router entry. Otherwise, the NAT Gateway cannot be created.

Debug

By using API Explorer, you can easily debug APIs, automatically generate SDK code examples, and quickly search for APIs. API Explorer can help reduce possible difficulty with using cloud APIs. We recommend that you use API Explorer.

Request parameters

Parameter	Type	Required?	Example value	Description
`Action`	String	Yes	CreateNatGateway	The action to perform. Valid value: `CreateNatGateway`
`RegionId`	String	Yes	cn-hangzhou	The region to which the NAT Gateway belongs. To obtain the region ID, call `DescribeRegions`.
`VpcId`	String	Yes	vpc-bp1di7uewzmtvfuq8ufpv	The ID of the VPC to be used.

Parameter	Type	Required?	Example value	Description
`BandwidthPackage.n.Bandwidth`	String	No	5	The bandwidth of the NAT bandwidth package (n). Valid value: [5,5000] Note: This API can be called only if you purchased a NAT bandwidth package before January 26, 2018. If your account does not have a NAT bandwidth package purchased before January 26, 2018, you need to attach an EIP.
`BandwidthPackage.N.ISP`	String	No	BGP	The ISP type of the shared bandwidth package (n). Default value: BGP (multiple lines).
`BandwidthPackage.n.IpCount`	String	No	5	The number of public IP addresses in the shared bandwidth package. Valid value: [1,50]. `n` represents the n-th bandwidth package. Valid values: [1,4]. Note: This API can be called only if you purchased a NAT bandwidth package before January 26, 2018. If your account did not include a NAT bandwidth package before January 26, 2018, attach an EIP.

Parameter	Type	Required?	Example value	Description
`BandwidthPackage.n.Zone`	String	No	cn-hangzhou-b	The zone of the shared bandwidth package (n). The system randomly allocates a zone if this parameter is not specified. If the NAT bandwidth package and the backend ECS instance are not in the same zone, the latency of the connection between them is unchanged; if they are in the same zone, the latency can be reduced. Note: This API can be called only if you purchased a NAT bandwidth package before January 26, 2018. If your account does not have a NAT bandwidth package before January 26, 2018, you need to attach an EIP.
`ClientToken`	String	No	shefffxxddjehfh123	A client token used to guarantee the idempotence of requests. This parameter value is generated by the client and must be unique. It cannot exceed 64 ASCII characters.

Parameter	Type	Required?	Example value	Description
`Description`	String	No	testnat	The description of the NAT Gateway. The description must be 2 to 256 characters in length. It cannot start with `http://` or `https://`.
`Name`	String	No	fortest	The name of the NAT Gateway. The name must be 2 and 128 characters in length. It can contain letters, numbers, periods (.), underscores (_), and hyphens (-). The name must start with a letter. It cannot start with `http://` or `https://`. If this parameter is not specified, the gateway ID is used by default.
`Spec`	String	No	small	The specification of the NAT Gateway. Valid values: · `Small` (default): small · `Middle` : medium · `Large` : large · `Xlarge.1` : super large

Response parameters

Parameter	Type	Example value	Description
NatGatewayId	String	ngw-112za33e4	The ID of the NAT Gateway. The ID is generated by the system and is globally unique.
ForwardTableIds		ftb-11tc6xgmv	A list of forwarding tables.
BandwidthPackageIds		bwp-11odxu2k7	A list of shared bandwidth packages.
RequestId	String	2315DEB7-5E92-423A-91F7-4C1EC9AD97C3	The ID of the request.
SnatTableIds		stb-SnatTableIds	The ID of the SNAT table.

Examples

Request example

```
 https :// vpc . aliyuncs . com /? Action = CreateNatG  ateway
& RegionId = cn - hangzhou
& VpcId =  vpc - bp1di7uewz  mtvfuq8ufp  v
&< CommonPara  meters >
```

Response example

- XML format

```
< CreateNatG  atewayResp  onse >
  < BandwidthP  ackageIds > bwp -**************</ BandwidthP
 ackageIds >
  < forwardTab  leIds > ftb -**************</ forwardTab  leIds >
  < natGateway  Id > ngw -**************</ natGateway  Id >
  < snatTableI  ds > stb -**************</ snatTableI  ds >
  < RequestId > E43E51F2 - 344F - 4685 - 8DF5 - 30EB298CFA  81 </
 RequestId >
</ CreateNatG  atewayResp  onse >
```

- JSON format

```
{
 " BandwidthP  ackageIds ":[
  " bwp -**************"
 ],
 " snatTableI  ds ":[
  " stb -**************"
```

```
 ],
 " natGateway  Id ":" ngw -**************",
 " RequestId ":" E43E51F2 - 344F - 4685 - 8DF5 - 30EB298CFA  81 ",
 " forwardTab  leIds ":[
  " ftb -**************"
 ]
}
```

Error codes

HTTP code	Error code	Error message	Description
400	InvalidVPCStatus	vpc incorrect status.	The VPC status is invalid.
404	InvalidRegionId.NotFound	The specified RegionId does not exist in our records.	The specified region ID does not exist.
400	MissingParameter.BandwidthPackage	only support one BandwidthPackage be created with NatGateway.	At least one shared bandwidth package must be specified.
400	MissingParameter	Miss mandatory parameter.	Required parameters are missing.
404	InvalidZoneId.NotFound	Specified value of ZoneId is not exists.	The specified zone does not exist.
404	InvalidZoneId.NotFound	Can not find ZoneId for allocated ip.	The zone of the IP address is incorrect.
400	QuotaExceeded.BandwidthPackageIps	The specified ipCount exceeded quota.	The IP address quota has been reached. To increase the quota, open a ticket.
400	InvalidParameter.Name.Malformed	The specified Name is not valid.	The specified name is invalid.
400	InvalidParameter.Description.Malformed	The specified Description is not valid.	The specified description is invalid.
400	ZONE_NO_AVAILABLE_IP	The Zone have no available ip.	There are no available IP addresses in this zone.

HTTP code	Error code	Error message	Description
400	InvalidParameter.BandwidthPackage.n.ISP.ValueNotSupport	The specified ISP of BandwidthPackage is not valid.	The ISP of the shared bandwidth package is invalid.
400	InvalidNatGatewayId.NotFound	The NatGatewayId not exist.	The specified NatGateway Id is invalid.
400	VswitchStatusError	The VSwitch is creating .	The VSwitch is being created.
400	VpcStatusError	The Vpc is creating .	The VPC is being created.
400	InvalidParameter.Spec.ValueNotSupported	The specified Spec is not valid.	The specification is invalid.

View the error codes of the product

16.2 ModifyNatGatewayAttribute

Modifies the name and description of a NAT Gateway.

Debug

Use OpenAPI Explorer to perform debug operations and generate SDK code examples.

Request parameters

Parameter	Type	Required?	Example value	Description
`Action`	String	Yes	ModifyNatGatewayAttribute	The name of this action. Value: ModifyNatGatewayAttribute
`NatGatewayId`	String	Yes	ngw-xxoo123	The ID of the NAT Gateway.

Parameter	Type	Required?	Example value	Description
`RegionId`	String	Yes	cn-hangzhou	The ID of the region to which the NAT Gateway belongs. To query the region ID, call DescribeRegions.
`Description`	String	No	fortest	Optional. The description of the NAT Gateway. The description must be 2 to 256 characters in length. It must start with a letter. It cannot start with `http://` or `https://`.
`Name`	String	No	nat123	Optional. The name of the NAT Gateway. The name must be 2 to 128 characters in length. It must start with a letter. It can contain numbers, periods (.), underscores (_), and hyphens (-). It cannot start with `http://` or `https://`.

Response parameters

Parameter	Type	Example value	Description
RequestId	String	AB5F62CF-2B60-4458-A756-42C9DFE108D1	The ID of the request.

Examples

Request example

```
https://vpc.aliyuncs.com/?Action=ModifyNatGatewayAttribute
&NatGatewayId=ngw-xxoo123
```

```
& RegionId = cn - hangzhou
&< CommonPara  meters >
```

Response example

`XML` format

```
< ModifyNatG  atewayAttr  ibuteRespo  nse >
   < RequestId > 2315DEB7 - 5E92 - 423A - 91F7 - 4C1EC9AD97  C3 </
 RequestId >
</ ModifyNatG  atewayAttr  ibuteRespo  nse >
```

`JSON` format

```
{
 " RequestId ":" 2315DEB7 - 5E92 - 423A - 91F7 - 4C1EC9AD97  C3 "
}
```

Errors

HTTP status code	Error code	Error message	Description
404	InvalidRegionId.NotFound	The specified RegionId does not exist in our records.	The specified region ID does not exist.
404	InvalidNatGatewayId.NotFound	The specified NatGatewayId does not exist in our records.	The specified NAT Gateway ID does not exist.
400	InvalidParameter.Name.Malformed	The specified Name is not valid.	The specified name is invalid.
400	InvalidParameter.Description.Malformed	The specified Description is not valid.	The specified description is invalid.

For a list of error codes, visit the API Error Center.

16.3 ModifyNatGatewaySpec

Modifies the specification of a NAT Gateway.

The NAT Gateway is billed according to the largest specification used in a day.

A NAT Gateway specification determines the performance metrics (Max Connections and Connections Per Second) of SNAT, but does not relate to data throughput.

The relationship between a NAT Gateway specification and its corresponding performance metrics is as follows:

Specification	Max Connections	Connections Per Second (CPS)
Small	10 thousand	1 thousand
Medium	50,000	5,000
Large	200,000	10,000

Debug

By using API Explorer, you can easily debug APIs, automatically generate SDK example codes, and quickly search for APIs.

Request parameters

Parameter	Type	Required?	Example value	Description
`Action`	String	Yes	ModifyNatGatewaySpec	The action to perform. Valid value: `ModifyNatGatewaySpec`
`NatGatewayId`	String	Yes	ngw-bp1uewa15k4iy5770ya89	The ID of the NAT Gateway.
`RegionId`	String	Yes	cn-hangzhou	The region to which the NAT Gateway belongs. To query the region ID, call `DescribeRegions`.

Parameter	Type	Required?	Example value	Description
`Spec`	String	Yes	Small	The specification of the NAT Gateway. Valid values: · `Small` (default value): small · `Middle` : medium · `Large` : large
`ClientToken`	String	No	SHA234js121223xxxxx	A client token used to guarantee the idempotence of requests. This parameter value is generated by the client and must be unique. It cannot exceed 64 ASCII characters.

Response parameters

Parameter	Type	Example value	Description
`RequestId`	String	DBD4E4A2-786E-4BD2-8EB6-107FFC2B5B7D	The ID of the request.

Examples

Request example

```
 https :// vpc . aliyuncs . com /? Action = ModifyNatG  atewaySpec
& NatGateway  Id = ngw - bp1uewa15k  4iy5770ya8  9
& RegionId = cn - hangzhou
& Spec = Small
&< CommonPara  meters >
```

Response example

· XML format

```
< ModifyNatG  atewaySpec  Response >
  < RequestId > DBD4E4A2 - 786E - 4BD2 - 8EB6 - 107FFC2B5B  7D </
 RequestId >
```

```
</ ModifyNatG  atewaySpec  Response >
```

- JSON format

```
{
 " RequestId ":" DBD4E4A2 - 786E - 4BD2 - 8EB6 - 107FFC2B5B  7D "
}
```

Error codes

HTTP status code	Error code	Error message	Description
404	InvalidRegionId.NotFound	The specified RegionId does not exist in our records.	The specified region ID does not exist.
404	InvalidNatGatewayId.NotFound	The specified NatGateway Id does not exist in our records.	The specified NatGateway Id does not exist.
400	NATGW_MODIFY_SPEC_SAME	The specified Spec is same with now.	The specification you entered is the same as the current specification.
400	InvalidParameter.Spec.ValueNotSupported	The specified Spec is not valid.	The specification is invalid.

See common error codes

16.4 CreateBandwidthPackage

Creates a NAT bandwidth package.

A NAT Gateway package includes a group of public IP addresses and a shared bandwidth. You can create up to four NAT bandwidth packages for a NAT Gateway.

A NAT bandwidth package includes:

- A shared bandwidth
- A group of public IP addresses

Note:

This API can be called only if you purchased a NAT bandwidth package before January 26, 2018. If your account does not have a NAT bandwidth package purchased before January 26, 2018, you need to attach an EIP.

Debug

By using API Explorer, you can easily debug APIs, automatically generate SDK code examples, and quickly search for APIs.

Request parameters

Parameter	Type	Required?	Example value	Description
`Action`	String	Yes	CreateBandwidthPackage	The name of this action. Value: `CreateBandwidthPackage`
`Bandwidth`	Integer	Yes	5	The bandwidth of the NAT bandwidth package. Value range: 5 to 1000.
`IpCount`	Integer	Yes	2	The number of public IP addresses in the NAT bandwidth package. Value range: 1 to 50.
`NatGatewayId`	String	Yes	ngw-7mwb327j1	The ID of the NAT Gateway to be used.
`RegionId`	String	Yes	cn-hangzhou	The region to which the NAT Gateway belongs. To query the region ID, call `DescribeRegions`.

Parameter	Type	Required?	Example value	Description
`ClientToken`	String	No	she11234556664566	A client token used to guarantee the idempotence of requests. This parameter value is generated by the client and must be unique. It must be 1 to 64 ASCII characters in length.
`Description`	String	No	The description of the bandwidth package	The description of the NAT bandwidth package. The description must be 2 to 256 characters in length. The description must start with a letter. It cannot start with `http://` or `https://`.
`ISP`	String	No	BGP	Valid value: BGP.
`InternetChargeType`	String	No	PayByBandwidth	The Internet billing method. Valid values: · PayByTraffic: Billing based on traffic
`Name`	String	No	The name of the bandwidth package	The name of the NAT bandwidth package. The name must be 2 to 128 characters in length and can letters, numbers, underscores (_), and hyphens (-). The name must start with a letter, but cannot start with `http://` or `https://`.

Parameter	Type	Required?	Example value	Description
Zone	String	No	cn-shanghai-a	The zone of the NAT bandwidth package. If this parameter is not specified, the system randomly allocates a zone. Note: If the NAT bandwidth package and the backend ECS instance are not in the same zone, the latency of the connection between them is unchanged; if they are in the same zone, the latency of the connection between them can be reduced.

Response parameters

Parameter	Type	Example value	Description
BandwidthPackageId	String	bwp-s6lmotmkk	The ID of the NAT bandwidth package.
RequestId	String	54ED4074-3F89-4F11-B166-837DD3E20FE3	The ID of the request.

Examples

Request example

```
https://vpc.aliyuncs.com/?Action=CreateBandwidthPackage
&Bandwidth=5
&IpCount=2
&NatGatewayId=ngw-7mwb327j1
&RegionId=cn-hangzhou
&<CommonParameters>
```

Response example

- XML format

```
< CreateBand  widthPacka  geResponse >
  < RequestId > 2315DEB7 - 5E92 - 423A - 91F7 - 4C1EC9AD97  C3 </
 RequestId >
  < BandwidthP  ackageId > bwp - s6lmotmkk </ BandwidthP  ackageId >
</ CreateBand  widthPacka  geResponse >
```

- JSON format

```
{
 " BandwidthP  ackageId ":" bwp - s6lmotmkk ",
 " RequestId ":" 54ED4074 - 3F89 - 4F11 - B166 - 837DD3E20F  E3 "
}
```

Error codes

HTTP status code	Error code	Error message	Description
404	InvalidRegionId.NotFound	The specified RegionId does not exist in our records.	The specified region ID does not exist.
400	MissingParameter	Miss mandatory parameter.	The required parameters are missing.
404	InvalidZoneId.NotFound	Specified value of ZoneId is not exists.	The specified zone does not exist.
404	InvalidZoneId.NotFound	Can not find ZoneId for allocated ip.	The specified zone of the IP address is incorrect.
400	QuotaExceeded.BandwidthPackageIps	The specified ipCount exceeded quota.	The quota of IP addresses has been reached. To increase the quota, open a ticket.
400	QuotaExceeded.BandwidthPackageCountOnNatGateway	BandwidthPackage count limit on one NatGateway exceeded.	The quota of shared bandwidth packages has been reached. You can create up to four shared bandwidth packages for a NAT Gateway.
400	InvalidParameter.Name.Malformed	The specified Name is not valid.	The name is invalid.

HTTP status code	Error code	Error message	Description
400	InvalidParameter.Description.Malformed	The specified Description is not valid.	The description is invalid.
400	InvalidParameter.BandwidthPackage.n.ISP.ValueNotSupport	The specified ISP of BandwidthPackage is not valid.	The ISP of the shared bandwidth package is invalid.
400	ZONE_NO_AVAILABLE_IP	The Zone have no available ip.	There are no available IP addresses in this zone.
404	NATGW_NOT_EXIST	The NatGateway not exist.	The specified NAT Gateway does not exist.

See common error codes

16.5 DescribeBandwidthPackages

Queries one or more NAT bandwidth packages in a region.

> Note:
> This API can be called only if you purchased a NAT bandwidth package before January 26, 2018. If your account does not have a NAT bandwidth package purchased before January 26, 2018, you need to associate an EIP.

For more information, see AssociateEipAddress .

Debug

By using API Explorer, you can easily debug APIs, automatically generate SDK code examples, and quickly search for APIs.

Request parameters

Parameter	Type	Required?	Example value	Description
`Action`	String	Yes	DescribeBandwidthPackages	The name of this action. Value: `DescribeBandwidthPackages`
`RegionId`	String	Yes	cn-hangzhou	The region to which the NAT Gateway belongs. To query the region ID, call `DescribeRegions`.
`BandwidthPackageId`	String	No	bwp-bp1xea10o8qxw8lkw2xa1	The ID of the NAT bandwidth package.
`NatGatewayId`	String	No	ngw-bp1uewa15k4iy5770ya89	The ID of the NAT Gateway.
`PageNumber`	Integer	No	10	The number of pages to return. Default value: `1` .
`PageSize`	Integer	No	10	The number of rows per page. Maximum value: `50` . Default value: `10` .

Response parameters

Parameter	Type	Example value	Description
BandwidthPackages	N/A	N/A	A list of NAT bandwidth packages.
└Bandwidth	String	5	The bandwidth value in Mbps. Valid values: 5 to 5000.
└BandwidthPackageId	String	bwp-xxoo123	The ID of the NAT bandwidth package.

Parameter	Type	Example value	Description
└BusinessStatus	String	Normal	The status of the bandwidth package. Valid values: Normal | FinancialLocked | SecurityLocked.
└CreationTime	String	2017-06-08T12:20:55	The time at which the bandwidth package was created. Standard: ISO861. Format: UTC, YYYY-MM-DDThh:mmZ
└Description	String	test123	The description of the bandwidth package.
└ISP	String	BGP	Valid value: BGP.
└InstanceChargeType	String	PostPaid	The billing method of the instance. Currently, only the Pay-As-You-Go billing method is supported. Valid value: PostPaid
└InternetChargeType	String	PayByBandwidth	The Internet billing method. Valid values: · PayByTraffic: Billing based on traffic
└IpCount	String	1	The number of public IP addresses in the NAT bandwidth package. Value range: 1 to 50.
└Name	String	xxxxxxx	The name of the NAT Gateway.
└NatGatewayId	String	ngw-xxoo123	The ID of the NAT Gateway.

Parameter	Type	Example value	Description
└PublicIpAddresses	N/A	N/A	The IP addresses in the bandwidth package.
└AllocationId	String	eip-2zeerraiwb7uj6i0d0fo3	The allocation ID.
└ ApAccessEnabled	Boolean	true	Indicates whether AP access is enabled.
└IpAddress	String	116.62.222.28	The IP address.
└UsingStatus	String	Available	The usage status.
└RegionId	String	cn-hangzhou	The region ID.
└Status	String	Available	The status of the bandwidth package.
└ZoneId	String	cn-shanghai-a	The zone of the NAT bandwidth package.
TotalCount	Integer	10	The number of queried entries.
PageNumber	Integer	10	The current page number.
PageSize	Integer	10	The number of entries per page.
RequestId	String	4EC47282-1B74-4534-BD0E-403F3EE64CAF"	The ID of the request.

Examples

Request example

```
 https :// vpc . aliyuncs . com /? Action = DescribeBa  ndwidthPac
 kages
& RegionId = cn - hangzhou
&< CommonPara  meters >
```

Response example

- **XML format**

```
< DescribeBa  ndwidthPac  kagesRespo  nse >
  < PageNumber > 1 </ PageNumber >
  < TotalCount > 1 </ TotalCount >
  < BandwidthP  ackages >
    < BandwidthP  ackage >
      < Descriptio  n />
      < IpCount > 2 </ IpCount >
      < ISP > BGP </ ISP >
      < ZoneId > cn - hangzhou - b </ ZoneId >
      < InternetCh  argeType > PayByTraff  ic </ InternetCh
 argeType >
      < NatGateway  Id > ngw - bp1uewa15k  4iy5770ya8  9 </
 NatGateway  Id >
      < Name />
      < CreationTi  me > 2018 - 03 - 06T07 : 33 : 51Z </ CreationTi
 me >
      < Status > Available </ Status >
      < BandwidthP  ackageId > bwp - bp1xea10o8  qxw8lkw2xa  1 </
 BandwidthP  ackageId >
      < BusinessSt  atus > Normal </ BusinessSt  atus >
      < RegionId > cn - hangzhou </ RegionId >
      < InstanceCh  argeType > PostPaid </ InstanceCh  argeType >
      < PublicIpAd  dresses >
        < PublicIpAd  dresse >
          < IpAddress > 118 . 31 . xx . xx </ IpAddress >
          < Allocation  Id > nateip - bp1jb1uijv  m9o8z30ejq  p </
 Allocation  Id >
          < UsingStatu  s > Idle </ UsingStatu  s >
        </ PublicIpAd  dresse >
        < PublicIpAd  dresse >
          < IpAddress > 118 . 31 . xx . xx </ IpAddress >
          < Allocation  Id > nateip - bp1dt4hpe8  847yj4oh10  w </
 Allocation  Id >
          < UsingStatu  s > UsedBySnat  Table </ UsingStatu  s >
        </ PublicIpAd  dresse >
      </ PublicIpAd  dresses >
      < Bandwidth > 5 </ Bandwidth >
    </ BandwidthP  ackage >
  </ BandwidthP  ackages >
  < PageSize > 10 </ PageSize >
</ DescribeBa  ndwidthPac  kagesRespo  nse >
```

- **JSON format**

```
{
 " PageNumber ": 1 ,
 " TotalCount ": 1 ,
 " BandwidthP  ackages ":{
  " BandwidthP  ackage ":[
   {
    " Descriptio  n ":"",
    " IpCount ":" 2 ",
    " ISP ":" BGP ",
    " ZoneId ":" cn - hangzhou - b ",
    " InternetCh  argeType ":" PayByTraff  ic ",
    " NatGateway  Id ":" ngw - bp1uewa15k  4iy5770ya8  9 ",
    " Name ":"",
    " CreationTi  me ":" 2018 - 03 - 06T07 : 33 : 51Z ",
    " Status ":" Available ",
```

```
      " BandwidthP  ackageId ":" bwp - bp1xea10o8  qxw8lkw2xa  1 ",
      " BusinessSt  atus ":" Normal ",
      " RegionId ":" cn - hangzhou ",
      " InstanceCh  argeType ":" PostPaid ",
      " PublicIpAd  dresses ":{
       " PublicIpAd  dresse ":[
        {
         " IpAddress ":" 118 . 31 . xx . xx ",
         " Allocation  Id ":" nateip - bp1jb1uijv  m9o8z30ejq  p ",
         " UsingStatu  s ":" Idle "
        },
        {
         " IpAddress ":" 118 . 31 . xx . xx ",
         " Allocation  Id ":" nateip - bp1dt4hpe8  847yj4oh10  w ",
         " UsingStatu  s ":" UsedBySnat  Table "
        }
       ]
      },
      " Bandwidth ":" 5 "
     }
    ]
  },
  " PageSize ": 10 ,
  " RequestId ":" 8909013D - 4A64 - 41A6 - 93E6 - E3FD08A3EA  FE "
}
```

Error codes

HTTP status code	Error code	Error message	Description
404	InvalidRegionId.NotFound	The specified RegionId does not exist in our records.	The specified region ID does not exist.

See common error codes

16.6 ModifyBandwidthPackageSpec

Modifies the bandwidth of a NAT bandwidth package.

> **Note:**
> This API can be called only if you purchased a NAT bandwidth package before January 26, 2018. If your account does not have a NAT bandwidth package purchased before January 26, 2018, you need to associate an EIP.

AssociateEipAddress .

Debug

By using API Explorer, you can easily debug APIs, automatically generate SDK code examples, and quickly search for APIs.

Request parameters

Parameter	Type	Required?	Example value	Description
`Action`	String	Yes	ModifyBandwidthPackageSpec	The name of this action. Value: `ModifyBandwidthPackageSpec`
`BandWidth`	Integer	Yes	5	The bandwidth of the NAT bandwidth package. Value range: 5 to 1000.
`BandwidthPackageId`	String	Yes	bwp-s6lmotmkk	The ID of the NAT bandwidth package.
`RegionId`	String	Yes	cn-hangzhou	The region to which the NAT bandwidth package belongs. To query the region ID, call `DescribeRegions`.

Response parameters

Parameter	Type	Example value	Description
`RequestId`	String	079874CD-AEC1-43E6-AC03-ADD96B6E4907	The ID of the request.

Examples

Request example

```
https://vpc.aliyuncs.com/?Action=ModifyBandwidthPackageSpec
&BandWidth=5
&BandwidthPackageId=bwp-s6lmotmkkxxxxxxx
&RegionId=cn-hangzhou
```

```
&< CommonPara  meters >
```

Response example

- XML format

```
< ModifyBand  widthPacka  geSpecResp  onse >
  < RequestId > 2315DEB7 - 5E92 - 423A - 91F7 - 4C1EC9AD97  C3 </
 RequestId >
</ ModifyBand  widthPacka  geSpecResp  onse >
```

- JSON format

```
{
 " RequestId ":" 54ED4074 - 3F89 - 4F11 - B166 - 837DD3E20F  E3 "
}
```

Error codes

HTTP status code	Error code	Error message	Description
404	InvalidRegionId.NotFound	The specified RegionId does not exist in our records.	The specified region ID does not exist.
404	InvalidBandwidth.ValueNotSupported	The specified value of Bandwidth not supported.	The specified peak bandwidth is not supported.
404	BandwidthPackage.FinancialLocked	The specified BandwidthPackage has been Financail Lock.	The specified bandwidth package is locked due to insufficient account balance.

See common error codes

16.7 ModifyBandwidthPackageAttribute

Modifies the name and description of a NAT bandwidth package.

Note:

This API can be called only if you purchased a NAT bandwidth package before January 26, 2018. If your account does not have a NAT bandwidth package purchased

before January 26, 2018, you need to associate an EIP. For more information, see AssociateEipAddress.

Debug

By using API Explorer, you can easily debug APIs, automatically generate SDK code examples, and quickly search for APIs.

Request parameters

Parameter	Type	Required?	Example value	Description
`Action`	String	Yes	ModifyBandwidthPackageAttribute	The name of the action. Value: `ModifyBandwidthPackageAttribute`
`BandwidthPackageId`	String	Yes	bwp-s6lmotmkk	The ID of the NAT bandwidth package.
`RegionId`	String	Yes	cn-hangzhou	The ID of the region to which the NAT bandwidth package belongs. To query the region ID, call `DescribeRegions`.
`Description`	String	No	xxxxxxxx	The description of the NAT bandwidth package. The description must be 2 to 256 characters in length. It must start with a letter. It cannot start with `http://` or `https://`.

Parameter	Type	Required?	Example value	Description
`Name`	String	No	NAT bandwidth package	The name of the NAT bandwidth package. The name must be 2 to 128 characters in length and can contain letters, numbers, periods (.), underscores (_), and hyphens (-). The name must start with a letter. It cannot start with `http://` or `https://`.

Response parameters

Parameter	Type	Example value	Description
`RequestId`	String	DFDDD35D-3F29-4E15-AA28-53F5341F9599	The ID of the request.

Examples

Request example

```
https://vpc.aliyuncs.com/?Action=ModifyBandwidthPackageAttribute
&BandwidthPackageId=bwp-s6lmotmkkxxxxxxx
&RegionId=cn-hangzhou
&<CommonParameters>
```

Response example

- XML format

```
<ModifyBandwidthPackageAttributeResponse>
  <RequestId>2315DEB7-5E92-423A-91F7-4C1EC9AD97C3</RequestId>
</ModifyBandwidthPackageAttributeResponse>
```

- JSON format

```
{
```

```
  " RequestId ":" 54ED4074 - 3F89 - 4F11 - B166 - 837DD3E20F  E3 "
}
```

Error codes

HTTP status code	Error code	Error message	Description
404	InvalidRegionId.NotFound	The specified RegionId does not exist in our records.	The specified region ID does not exist.
404	InvalidBandwidthPackageId.NotFound	The specified bandwidthPackageId does not exist in our records.	The specified shared bandwidth package does not exist.
400	InvalidParameter.Name.Malformed	The specified Name is not valid.	The specified name is invalid.
400	InvalidParameter.Description.Malformed	The specified Description is not valid.	The specified description is invalid.

See common errors

16.8 DescribeNatGateways

Queries one or more NAT Gateways in a region.

Debug

Use OpenAPI Explorer to perform debug operations and generate SDK code examples.

Request parameters

Parameter	Type	Required?	Example value	Description
`Action`	String	Yes	DescribeNatGateways	The name of this action. Value: DescribeNatGateways

Parameter	Type	Required?	Example value	Description
RegionId	String	Yes	cn-hangzhou	The ID of the region to which the NAT Gateway belongs. To query the region ID, call DescribeRegions.
InstanceChargeType	String	No	PostPaid	Optional. The billing method of the NAT Gateway. Currently, only Pay-As-You-Go is supported. PostPaid: Pay-As-You-Go
Name	String	No	NAT Gateway	Optional. The name of the NAT Gateway.
NatGatewayId	String	No	ngw-bp1uewa15k4iy5770xxxx	Optional. The ID of the NAT Gateway.
PageNumber	Integer	No	10	Optional. The page number. Default value: 1
PageSize	Integer	No	1	Optional. The number of entries per page in the case of a paged query result. Maximum value: 50. Default value: 10
Spec	String	No	Large	Optional. The specification of the NAT Gateway. Valid values: · Small (default) · Middle · Large · XLarge.1
VpcId	String	No	vpc-bp15zckdt37pq72zxxxx	Optional. The ID of the VPC.

Response parameters

Parameter	Type	Example value	Description
NatGateways			The details of the NAT Gateway.
AutoPay	Boolean	true	Indicates whether the NAT Gateway order is paid automatically. Valid values: · false: Automatic payment is not enabled. After an order is placed , you must go to the order center to complete the payment. · true: Automatic payment is enabled and the order is paid automatically. Note: This parameter is required if the value of the InstanceChargeType parameter is se to PrePaid.
BandwidthPackageIds		bwp-s6lmotmkk	The ID of the bandwidth package associated with the NAT Gateway.
BusinessStatus	String	Normal	The status of the NAT gateway: · Normal: The NAT Gateway is normal. · FinancialLocked: The NAT Gateway is locked because of an overdue bill. · SecurityLocked: The NAT Gateway is locked due to security reasons.
CreationTime	String	2017-06-08T12:20:55	The time when the NAT Gateway was created. This parameter uses the ISO 8601 format and the output is UTC+8. Format: YYYY-MM-DDThh:mmZ.

Parameter	Type	Example value	Description
Description	String	NAT	The description of the NAT Gateway .
ExpiredTime	String	2017-08-26T16:00Z	The time when the NAT Gateway expires.
ForwardTableIds		ftb-uf6gj3mhsg94qsqstfqsx	The ID of the port forwarding table.
InstanceChargeType	String	PostPaid	The billing method of the NAT Gateway. Currently, only Pay-As-You-Go is supported. PostPaid: Pay-As-You-Go
IpLists			The Elastic IP Address (EIP) associated with the NAT Gateway.
IpAddress	String	116.62.222.xx	The IP address of the EIP.
Name	String	abc	The name of the NAT Gateway.
NatGatewayId	String	ngw-bp1047e2d4z7kf2kixxxx	The ID of the NAT Gateway.
RegionId	String	cn-hangzhou	The ID of the region to which the NAT Gateway belongs.
SnatTableIds		stb-uf6dalcdu0krz423pv8mq	The ID of the SNAT table of the NAT Gateway.
Spec	String	Small	The specification of the NAT Gateway.

Parameter	Type	Example value	Description
Status	String	Initiating	The status of the NAT Gateway. Valid values: · Initiating: The NAT Gateway is being initialized. · Available: The NAT Gateway is available. · Pending: The NAT Gateway is being configured.
VpcId	String	vpc-bp15zckdt37pq72xxxx	The ID of the VPC to which the NAT Gateway belongs.
TotalCount	Integer	10	The total number of entries.
PageNumber	Integer	10	The current page number.
PageSize	Integer	10	The number of entries per page.
RequestId	String	4EC47282-1B74-4534-BD0E-403F3EE64CAF	The ID of the request.

Examples

Request example

```
 https :// vpc . aliyuncs . com /? Action = DescribeNa  tGateways
& RegionId = cn - hangzhou
&< CommonPara  meters >
```

Response example

`XML` format

```
< DescribeNa  tGatewaysR  esponse >
   < PageNumber > 1 </ PageNumber >
   < TotalCount > 1 </ TotalCount >
   < PageSize > 10 </ PageSize >
   < RequestId > 1207C80C - 7CAB - 4874 - A9A0 - D19EC9F354  90 </
 RequestId >
   < NatGateway  s >
      < NatGateway >
         < Descriptio  n ></ Descriptio  n >
         < Spec > Small </ Spec >
         < IpLists >
            < IpList >
```

```
                < IpAddress > 118 . 31 . 65 . 181 </ IpAddress >
                < Allocation  Id > eip - bp1xyg5ipm  h3nledxywx  f </
 Allocation  Id >
                < UsingStatu  s > UsedBySnat  Table </ UsingStatu  s >
            </ IpList >
            < IpList >
                < IpAddress > 47 . 97 . 187 . 34 </ IpAddress >
                < Allocation  Id > eip - bp19eue77u  20cffjcu4e  a </
 Allocation  Id >
                < UsingStatu  s > UsedByForw  ardTable </ UsingStatu  s
 >
            </ IpList >
        </ IpLists >
        < ForwardTab  leIds >
            < ForwardTab  leId > ftb - bp15o9aylj  19vfvgtnzo  y </
 ForwardTab  leId >
        </ ForwardTab  leIds >
        < VpcId > vpc - bp15k6sx6f  hdz2jw4daz  0 </ VpcId >
        < NatGateway  Id > ngw - bp1047e2d4  z7kf2kiy25  t </
 NatGateway  Id >
        < CreationTi  me > 2018 - 01 - 10T09 : 48 : 29Z </
 CreationTi  me >
        < BandwidthP  ackageIds ></ BandwidthP  ackageIds >
        < Name ></ Name >
        < Status > Available </ Status >
        < BusinessSt  atus > Normal </ BusinessSt  atus >
        < RegionId > cn - hangzhou </ RegionId >
        < SnatTableI  ds >
            < SnatTableI  d > stb - bp1tyr0o48  w6wymur4gv  n </
 SnatTableI  d >
        </ SnatTableI  ds >
        < InstanceCh  argeType > PostPaid </ InstanceCh  argeType >
      </ NatGateway >
   </ NatGateway  s >
</ DescribeNa  tGatewaysR  esponse >
```

`JSON` format

```
{
 " PageNumber ": 1 ,
 " TotalCount ": 1 ,
 " PageSize ": 10 ,
 " RequestId ":" 1207C80C - 7CAB - 4874 - A9A0 - D19EC9F354  90 ",
 " NatGateway  s ":{
  " NatGateway ":[
   {
    " Descriptio  n ":"",
    " Spec ":" Small ",
    " IpLists ":{
     " IpList ":[
      {
       " IpAddress ":" 118 . 31 . 65 . 181 ",
       " Allocation  Id ":" eip - bp1xyg5ipm  h3nledxywx  f ",
       " UsingStatu  s ":" UsedBySnat  Table "
      },
      {
       " IpAddress ":" 47 . 97 . 187 . 34 ",
       " Allocation  Id ":" eip - bp19eue77u  20cffjcu4e  a ",
       " UsingStatu  s ":" UsedByForw  ardTable "
      }
     ]
    },
    " ForwardTab  leIds ":{
```

```
      " ForwardTab  leId ":[
       " ftb - bp15o9aylj  19vfvgtnzo  y "
      ]
     },
     " VpcId ":" vpc - bp15k6sx6f  hdz2jw4daz  0 ",
     " NatGateway  Id ":" ngw - bp1047e2d4  z7kf2kiy25  t ",
     " CreationTi  me ":" 2018 - 01 - 10T09 : 48 : 29Z ",
     " BandwidthP  ackageIds ":{
      " BandwidthP  ackageId ":[]
     },
     " Name ":"",
     " Status ":" Available ",
     " BusinessSt  atus ":" Normal ",
     " RegionId ":" cn - hangzhou ",
     " SnatTableI  ds ":{
      " SnatTableI  d ":[
       " stb - bp1tyr0o48  w6wymur4gv  n "
      ]
     },
     " InstanceCh  argeType ":" PostPaid "
    }
   ]
  }
}
```

Errors

HTTP status code	Error code	Error message	Description
404	InvalidRegionId.NotFound	The specified RegionId does not exist in our records.	The specified RegionId does not exist.

For a list of error codes, visit the API Error Center.

16.9 AddBandwidthPackageIps

Adds public IP addresses to a NAT bandwidth package.

Note:

This API can be called only if you purchased a NAT bandwidth package before January 26, 2018. If your account does not have a NAT bandwidth package purchased before January 26, 2018, you need to associate an EIP.

For more information, see AssociateEipAddress .

Debug

By using API Explorer, you can easily debug APIs, automatically generate SDK code examples, and quickly search for APIs.

Request parameters

Parameter	Type	Required?	Example value	Description
`Action`	String	Yes	AddBandwidthPackageIps	The name of this action. Value: `AddBandwidthPackageIps`
`BandwidthPackageId`	String	Yes	bwp-s6lmotmkk	The ID of the NAT bandwidth package.
`IpCount`	String	Yes	2	The number of public IP addresses in the NAT bandwidth package. Value range: 1 to 50.
`RegionId`	String	Yes	cn-hangzhou	The region to which the NAT bandwidth package belongs. To query the region ID, call `DescribeRegions`.
`ClientToken`	String	No	02fb3da4-130e-11e9-8e44-0016e04115b	A client token used to guarantee the idempotence of requests. This parameter value is generated by the client and must be unique. It must be 1 to 64 ASCII characters in length.

Response parameters

Parameter	Type	Example value	Description
RequestId	String	EC0B5C51-7F40-44D6-A642-1DE764B547EC	The ID of the request.

Examples

Request example

```
https :// vpc . aliyuncs . com /? Action = AddBandwid  thPackageI
ps
& BandwidthP  ackageId = bwp - s6lmotmkk
& IpCount = 2
& RegionId = cn - hangzhou
&< CommonPara  meters >
```

Response example

- XML format

```
< AddBandwid  thPackageI  psResponse >
  < RequestId > 2315DEB7 - 5E92 - 423A - 91F7 - 4C1EC9AD97  C3 </
 RequestId >
</ AddBandwid  thPackageI  psResponse >
```

- JSON format

```
{
 " RequestId ":" 2315DEB7 - 5E92 - 423A - 91F7 - 4C1EC9AD97  C3 "
}
```

Error codes

HTTP status code	Error code	Error message	Description
404	InvalidRegionId.NotFound	The specified RegionId does not exist in our records.	The specified region ID does not exist.
400	InvalidIpCount.ValueNotSupported	The specified value of IpCount not supported.	The IpCount value is invalid.

HTTP status code	Error code	Error message	Description
400	QuotaExceeded.BandwidthPackageIps	The specified ipCount exceeded quota.	The quota of IP addresses has been reached. To increase the quota, open a ticket.
404	BandwidthPackage.FinancialLocked	The specified BandwidthPackage has been Financail Lock.	The bandwidth package is locked due to insufficient account balance.

See common error codes

16.10 RemoveBandwidthPackageIps

Removes public IP addresses from a NAT bandwidth package.

Before you call RemoveBandwidthPackageIps to delete public IP addresses, note the following:

- You cannot delete all public IP addresses in the NAT bandwidth package.
- You cannot delete an IP address that is not included in the target NAT bandwidth package.
- You cannot delete an IP address occupied by a DNAT entry or SNAT entry.

Note:
This API can be called only if you purchased a NAT bandwidth package before January 26, 2018. If your account does not have a NAT bandwidth package purchased before January 26, 2018, you need to associate an EIP.

For more information, see AssociateEipAddress .

Debug

By using API Explorer, you can easily debug APIs, automatically generate SDK code examples, and quickly search for APIs.

Request parameters

Parameter	Type	Required?	Example value	Description
`Action`	String	Yes	RemoveBandwidthPackageIps	The name of the action. Value: `RemoveBandwidthPackageIps`
`BandwidthPackageId`	String	Yes	bwp-s6lmotmkk	The ID of the NAT bandwidth package.
`RegionId`	String	Yes	cn-hangzhou	The ID of the region to which the NAT bandwidth package belongs. To query the region ID, call `DescribeRegions`.
`RemovedIpAddresses.n`	String	Yes	116.62.222.28	The ID of the public IP address to be deleted. Value range of n: 1 to 20.
`ClientToken`	String	No	SHAww112344jhsw233	A client token used to guarantee the idempotence of requests. This parameter value is generated by the client and must be unique. It cannot exceed 64 ASCII characters.

Response parameters

Parameter	Type	Example value	Description
`RequestId`	String	7D275A59-1EB0-4775-8A20-2A47055EAC5C	The ID of the request.

Examples

Request example

```
 https :// vpc . aliyuncs . com /? Action = RemoveBand  widthPacka
 geIps
& BandwidthP  ackageId = bwp - s6lmotmkk
& RegionId = cn - hangzhou
& RemovedIpA  ddresses . 1 = 116 . 62 . 222 . 28
&< CommonPara  meters >
```

Response example

- XML format

```
< RemoveBand  widthPacka  geIpsRespo  nse >
  < RequestId > 7D275A59 - 1EB0 - 4775 - 8A20 - 2A47055EAC  5C </
 RequestId >
</ RemoveBand  widthPacka  geIpsRespo  nse >
```

- JSON format

```
{
 " RequestId ":" 7D275A59 - 1EB0 - 4775 - 8A20 - 2A47055EAC  5C "
}
```

Error codes

HTTP status code	Error code	Error message	Description
404	InvalidRegionId.NotFound	The specified RegionId does not exist in our records.	The specified region ID does not exist.
404	invalidRemovedIpAddresses.NotFound	Some of the specified value of RemovedIpAddress not found in specified BandwidthPackage.	Some IP addresses in the IP address list are not in the shared bandwidth package. Check these IP addresses.
400	InvalidIpCount.ValueNotSupported	Can not remove all ips of the bandwidthPackage.	You cannot remove all IP addresses in the bandwidth package.

HTTP status code	Error code	Error message	Description
400	InvalidRemovedIpAddresses.NotFound	Some of remove ip is not natPublicIp.	Some specified IP addresses are not public IP addresses of the NAT Gateway and cannot be removed.
400	DependencyViolation.ForwardEntry	The ip has been used by ForwardEntry.	The IP address is being used by a forwarding rule. Delete the rule first.
400	DependencyViolation.SnatEntry	The ip has been used by SnatEntry.	The IP address is being used by an SNAT rule. Delete the rule first.
404	BandwidthPackage.FinancialLocked	The specified BandwidthPackage has been Financail Lock.	The bandwidth package is locked due to insufficient balance.

See common error codes

16.11 DeleteBandwidthPackage

Deletes a NAT bandwidth package.

> Note:
> This API can be called only if you purchased a NAT bandwidth package before January 26, 2018. If your account does not have a NAT bandwidth package purchased before January 26, 2018, you need to associate an EIP. For more information, see AssociateEipAddress.

Debug

By using API Explorer, you can easily debug APIs, automatically generate SDK code examples, and quickly search for APIs.

Request parameters

Parameter	Type	Required?	Example value	Description
`Action`	String	Yes	DeleteBandwidthPackage	The name of this action. Value: `DeleteBandwidthPackage`
`BandwidthPackageId`	String	Yes	bwp-bp1arsrmca9kp7inuc3a1	The ID of the NAT bandwidth package.
`RegionId`	String	Yes	cn-hangzhou	The region to which the NAT Gateway belongs. To query the region ID, call `DescribeRegions`.
`Force`	Boolean	No	false	Indicates whether to forcibly delete the NAT bandwidth package.

Response parameters

Parameter	Type	Example value	Description
`RequestId`	String	7D275A59-1EB0-4775-8A20-2A47055EAC5C	The ID of the request.

Examples

Request example

```
https://vpc.aliyuncs.com/?Action=DeleteBandwidthPackage
&BandwidthPackageId=bwp-bp1arsrmca9kpxxxxxxx
&RegionId=cn-hangzhou
&<CommonParameters>
```

Response example

- XML format

```
< DeleteBand  widthPacka  geResponse >
  < RequestId > 0ED8D006 - F706 - 4D23 - 88ED - E11ED28DCA  C0 </
 RequestId >
</ DeleteBand  widthPacka  geResponse >
```

- JSON format

```
{
 " RequestId ":" 0ED8D006 - F706 - 4D23 - 88ED - E11ED28DCA  C0 "
}
```

Error codes

HTTP status code	Error code	Error message	Description
404	InvalidRegionId.NotFound	The specified RegionId does not exist in our records.	The specified region ID does not exist.
400	DependencyViolation.ForwardEntry	The specified BandwidthPackageId has dependent resource.	The specified shared bandwidth package is associated with an SNAT/DNAT entry. Delete the SNAT/DNAT entry first.
400	DependencyViolation.SnatEntry	The specified BandwidthPackageId has dependent resource.	The specified shared bandwidth package is associated with an SNAT/DNAT entry. Delete the SNAT/DNAT entry first.

See common error codes

16.12 DeleteNatGateway

Deletes a NAT Gateway.

Note:

If the NAT Gateway is associated with a shared bandwidth package, you must delete the shared bandwidth package first.

Debug

By using API Explorer, you can easily debug APIs, automatically generate SDK code examples, and quickly search for APIs.

Request parameters

Parameter	Type	Required?	Example value	Description
`Action`	String	Yes	DeleteNatGateway	The name of this action. Value: `DeleteNatGateway`
`NatGatewayId`	String	Yes	ngw-bp1uewa15k4iy5770ya89	The ID of the NAT Gateway.
`RegionId`	String	Yes	cn-hangzhou	The region to which the NAT Gateway belongs. To query the region ID, call `DescribeRegions`.
`Force`	Boolean	No	false	Indicates whether to forcibly delete the NAT Gateway.

Response parameters

Parameter	Type	Example value	Description
`RequestId`	String	4EC47282-1B74-4534-BD0E-403F3EE64CAF	The ID of the request.

Examples

Request example

```
https://vpc.aliyuncs.com/?Action=DeleteNatGateway
&NatGatewayId=ngw-bp1uewa15k4iy5770ya89
&RegionId=cn-hangzhou
&<CommonParameters>
```

Response example

- XML format

```
< DeleteNatG  atewayResp  onse >
  < RequestId > 0ED8D006 - F706 - 4D23 - 88ED - E11ED28DCA  C0 </
 RequestId >
</ DeleteNatG  atewayResp  onse >
```

- JSON format

```
{
 " RequestId ":" 0ED8D006 - F706 - 4D23 - 88ED - E11ED28DCA  C0 "
}
```

Error codes

HTTP status code	Error code	Error message	Description
404	InvalidRegionId. NotFound	The specified RegionId does not exist in our records.	The specified region ID does not exist.
404	InvalidNat GatewayId. NotFound	The specified NatGateway Id does not exist in our records.	The specified NatGateway Id does not exist.
400	Dependency Violation. BandwidthP ackages	There are BandwidthP ackages on specified NatGateway not deleted.	The NAT Gateway is associated with one or more shared bandwidth packages. Delete all shared bandwidth packages first.

See common error codes

16.13 CreateForwardEntry

Adds a DNAT entry to a DNAT table.

Each DNAT entry consists of five parts: ExternalIp, ExternalPort, Protocol, InternalIp, InternalPort. After a DNAT entry is added, the NAT gateway forwards the data of the specified protocol received by [ExternalIp:ExternalPort] to [InternalIp:InternalPort], and returns a response.

Note the following before you call this action:

- Each combination of ExternalIp, ExternalPort, and Protocol of all DNAT entries must be unique (that is, a message cannot be forwarded to multiple targets).
- Each combination of Protocol, InternalIp, and InternalPort of all DNAT entries must be unique.
- If any DNAT entry in the DNAT table is in the Pending or Modifying state, a new DNAT entry cannot be added.
- ExternalIp must meet the following requirements:
  - If your account has a NAT bandwidth package purchased before January 26, 2018, ExternalIp must be a public IP address in the NAT bandwidth package of the NAT Gateway.
  - If your account does not have a NAT bandwidth package purchased before January 26, 2018, ExternalIP must be an EIP associated to the NAT Gateway.
  - A public IP address cannot be used in both SNAT and DNAT entries at the same time.
- InternalIp must meet the following requirements:
  - The InternalIp must belong to the CIDR block of the VPC to which the NAT Gateway belongs.
  - The DNAT entry takes effect only when the InternalIP is used by an ECS instance that is not associated with an EIP. If the InternalIP is used by non-ECS resources such as HaVip, SLB, or RDS, the DNAT entry does not take effect and the Internet traffic cannot be forwarded to the IP address.
  - A public IP address cannot be used in both SNAT and DNAT entries at the same time.
- A maximum of 100 DNAT entries can be added to a DNAT table.

Debug

By using API Explorer, you can easily debug APIs, automatically generate SDK code examples, and quickly search for APIs.

Request parameters

Parameter	Type	Required?	Example value	Description
`Action`	String	Yes	CreateForwardEntry	The name of this action. Value: `CreateForwardEntry`
`ExternalIp`	String	Yes	116.xx.xx.28	The public IP address.
`ExternalPort`	String	Yes	8080	The public port number. Value range: 1 to 65535.
`ForwardTableId`	String	Yes	ftb-bp1mbjubq34hlcqpa5u3a	The ID of the DNAT table.
`InternalIp`	String	Yes	192.168.xx.xx	The target private IP address.
`InternalPort`	String	Yes	80	The target private port number. Valid value: 1 to 65535.
`IpProtocol`	String	Yes	TCP	The protocol type. Valid values: · `TCP` : forward TCP packets. · `UDP` : forward UDP packets. · `Any` : forward all packets.
`RegionId`	String	Yes	cn-hangzhou	The region to which the NAT Gateway belongs. To query the region ID, call `DescribeRegions`.
ForwardEntryName	String	No	ForwardEntry-1	The name of the DNAT entry to be created. The name must be 2 to 128 characters in length and start with a Chinese character or a letter. The name cannot start with `http://` or `https://`.

Response parameters

Parameter	Type	Example value	Description
ForwardEntryId	String	fwd-119smw5tkxxxxxxx	The ID of the DNAT entry.
RequestId	String	A4AEE536-A97A-40EB-9EBE-53A6948A6928	The ID of the request.

Examples

Request example

```
https://vpc.aliyuncs.com/?Action=CreateForwardEntry
&ExternalIp=116.xx.xx.28
&ExternalPort=8080
&ForwardTableId=ftb-bp1mbjubq34hlxxxxxxx
&InternalIp=192.168.xx.xx
&InternalPort=80
&IpProtocol=TCP
&RegionId=cn-hangzhou
&<CommonParameters>
```

Response example

- XML format

```
<CreateForwardEntryResponse>
  <ForwardEntryId>fwd-119smw5tkxxxxxxx</ForwardEntryId>
  <RequestId>2315DEB7-5E92-423A-91F7-4C1EC9AD97C3</RequestId>
</CreateForwardEntryResponse>
```

- JSON format

```
{
"ForwardEntryId":"fwd-119smw5tkxxxxxxx",
"RequestId":"2315DEB7-5E92-423A-91F7-4C1EC9AD97C3"
}
```

Error codes

HTTP status code	Error code	Error message	Description
404	InvalidRegionId.NotFound	The specified RegionId does not exist in our records.	The specified region ID does not exist.

HTTP status code	Error code	Error message	Description
400	InvalidExternalIp.Malformed	The specified ExternalIp is not a valid IP address.	The specified ExternalIp is invalid.
400	InvalidInternalIp.Malformed	The specified InternalIp is not a valid IP address.	The specified InternalIp is invalid.
400	InvalidExternalPort.Malformed	The specified ExternalPort is not a valid port.	The specified ExternalPort is invalid.
400	InvalidInternalPort.Malformed	The specified InternalPort is not a valid port.	The specified InternalPort is invalid.
400	Forbidden.DestnationIpOutOfVpcCIDR	The specified Internal Ip is Out of VPC CIDR.	The specified InternalIp is not in the CIDR block of the VPC.
400	InvalidProtocal.ValueNotSupported	The specified IpProtocol does not support.	The specified protocol type is not supported.
400	IncorretForwardEntryStatus	Some Forward entry status blocked this operation..	You cannot perform this operation because one or more DNAT entries are in the Pending or Modifying status.
404	InvalidForwardTableId.NotFound	Specified forward table does not exist.	The specified DNAT table does not exist.
404	InvalidExternalIp.NotFound	Specified External Ip address does not found on the VRouter	The specified ExternalIP does not exist.
400	Forbidden.ExternalIp.UsedInSnatTable	The specified ExternalIp is already used in SnatTable	The specified ExternalIp is being used by an SNAT rule. Select a different IP address or delete the SNAT rule that uses this IP address.

HTTP status code	Error code	Error message	Description
400	Forbindden	The specified Instance already bind eip	An EIP is already attached to this ECS instance. Detach the EIP from the ECS instance first and then add the forwarding rule.
400	Forbidden .InternalIp OutOfVpcCIDR	The specified Internal Ip is Out of VPC CIDR.	The specified InternalIP is not in the CIDR block of the VPC.
400	Invalid. natgwNotExist	The specified natgateway not exist.	The specified NAT Gateway does not exist.
400	InvalidIp. NotInNatgw	The specified Ip not belong to natgateway.	The specified IP address does not belong to the NAT Gateway.
400	MissingPar ameter	Missing mandatory parameter	The required parameters are missing.
500	InternalError	The request processing has failed due to some unknown error.	The request cannot be processed due to unknown errors.
400	InvalidPar ameter.Name. Malformed	The specified Name is not valid.	The specified name is invalid. Enter a valid name and try again.

See common error codes.

16.14 DescribeForwardTableEntries

Queries DNAT entries in a DNAT table.

Debug

By using API Explorer, you can easily debug APIs, automatically generate SDK code examples, and quickly search for APIs.

Request parameters

Parameter	Type	Required?	Example value	Description
`Action`	String	Yes	DescribeForwardTableEntries	The name of this action. Value: `DescribeForwardTableEntries`
`ForwardTableId`	String	Yes	ftb-bp1mbjubq34hlcqpa5u3a	The ID of the DNAT table.
`RegionId`	String	Yes	cn-hangzhou	The region to which the NAT Gateway belongs. To query the region ID, call `DescribeRegions`.
`ForwardEntryId`	String	No	fwd-8vbn3bc8roygjp0gy3xk7	The ID of the DNAT entry allocated by the system.
`PageNumber`	Integer	No	1	The number of pages to return. Default value: `1` .
`PageSize`	Integer	No	10	The number of rows per page. Maximum value: `50` . Default value: `10` .

Response parameters

Parameter	Type	Example value	Description
ForwardTableEntries			A list of DNAT entries.
└ExternalIp	String	139.xxx.xx.79	The public IP address.
└ExternalPort	String	80	The public port.

Parameter	Type	Example value	Description
└ ForwardEntryId	String	fwd-119smw5tk	The ID of the DNAT entry.
└ ForwardTableId	String	ftb-11tc6xgmv	The ID of the DNAT table to which the DNAT entry belongs.
└InternalIp	String	192.168.1.1	The private IP address.
└InternalPort	String	any	The target private port. Value range : 1 to 65535.
└IpProtocol	String	tcp	The protocol type.
└Status	String	Available	The status of the DNAT entry.
TotalCount	Integer	5	The number of queried entries.
PageNumber	Integer	1	The current page number.
PageSize	Integer	10	The number of entries per page.
RequestId	String	A6C4A8B1-7561-4509-949C-20DEB40D71E6	The ID of the request.

Examples

Request example

```
 https :// vpc . aliyuncs . com /? Action = DescribeFo  rwardTable
 Entries
& ForwardTab  leId = ftb - bp1mbjubq3  4hlcqpa5u3  a
& RegionId = cn - hangzhou
&< CommonPara  meters >
```

Response example

- XML format

```
< DescribeFo  rwardTable  EntriesRes  ponse >
  < PageNumber > 1 </ PageNumber >
  < TotalCount > 1 </ TotalCount >
  < PageSize > 10 </ PageSize >
```

```
  < RequestId > 74F2BAD8 - AF35 - 4C57 - 81F1 - 5E33BFB0F5  F2 </
 RequestId >
  < ForwardTab  leEntries >
    < ForwardTab  leEntry >
      < Status > Available </ Status >
      < IpProtocol > any </ IpProtocol >
      < ForwardEnt  ryId > fwd - bp18jpb1tl  m550di3q5p  b </
 ForwardEnt  ryId >
      < ExternalIp > 47 . 97 . xx . xx </ ExternalIp >
      < ForwardTab  leId > ftb - bp15o9aylj  19vfvgtnzo  y </
 ForwardTab  leId >
      < ExternalPo  rt > any </ ExternalPo  rt >
      < InternalPo  rt > any </ InternalPo  rt >
      < InternalIp > 192 . 168 . xx . xx </ InternalIp >
    </ ForwardTab  leEntry >
  </ ForwardTab  leEntries >
</ DescribeFo  rwardTable  EntriesRes  ponse >
```

- JSON format

```
{
 " PageNumber ": 1 ,
 " TotalCount ": 1 ,
 " PageSize ": 10 ,
 " RequestId ":" 74F2BAD8 - AF35 - 4C57 - 81F1 - 5E33BFB0F5  F2 ",
 " ForwardTab  leEntries ":{
  " ForwardTab  leEntry ":[
   {
    " ForwardEnt  ryId ":" fwd - bp18jpb1tl  m550di3q5p  b ",
    " IpProtocol ":" any ",
    " Status ":" Available ",
    " ExternalIp ":" 47 . 97 . xx . xx ",
    " ForwardTab  leId ":" ftb - bp15o9aylj  19vfvgtnzo  y ",
    " ExternalPo  rt ":" any ",
    " InternalPo  rt ":" any ",
    " InternalIp ":" 192 . 168 . xx . xx "
   }
  ]
 }
}
```

Error codes

HTTP status code	Error code	Error message	Description
404	InvalidRegionId.NotFound	The specified RegionId does not exist in our records.	The specified region ID does not exist.
400	IncorretForwardEntryStatus	Some Forward entry status blocked this operation..	This operation is forbidden because one or more DNAT entries in the DNAT table are in the Pending or Modifying state.

HTTP status code	Error code	Error message	Description
404	InvalidForwardTableId.NotFound	Specified forwardTableId does not exist	The specified DNAT table does not exist.

See common error codes

16.15 ModifyForwardEntry

Modifies a DNAT entry.

> Note:
> You cannot modify a DNAT entry if the DNAT entry is in the Pending or Modifying state.

Debug

By using API Explorer, you can easily debug APIs, automatically generate SDK code examples, and quickly search for APIs.

Request parameters

Parameter	Type	Required?	Example value	Description
`Action`	String	Yes	ModifyForwardEntry	The name of this action. Value: `ModifyForwardEntry`
`ForwardEntryId`	String	Yes	fwd-8vbn3bc8roygjp0gy3xk7	The ID of the DNAT entry.
`ForwardTableId`	String	Yes	ftb-8vbx8xu2lqj9qb334h0ow	The ID of the DNAT table.
`RegionId`	String	Yes	cn-hangzhou	The region to which the NAT Gateway belongs. To query the region ID, call `DescribeRegions`.

Parameter	Type	Required?	Example value	Description
ExternalIp	String	No	116.62.222.28	The public IP address.
ExternalPort	String	No	80	The public port. Value range: 1 to 65535.
InternalIp	String	No	10.34.56.78	The target private IP address.
InternalPort	String	No	80	The target private port. Value range: 1 to 65535.
IpProtocol	String	No	TCP	The protocol type. Valid values: · TCP : forward TCP packets. · UDP : forward UDP packets. · Any : forward all packets.

Response parameters

Parameter	Type	Example value	Description
RequestId	String	24CC85DC-7700-4F09-9624-99E988C7DD03	The ID of the request.

Examples

Request example

```
 https :// vpc . aliyuncs . com /? Action = ModifyForw  ardEntry
& ForwardEnt  ryId = fwd - 8vbn3bc8ro  ygjp0gy3xk  7
& ForwardTab  leId = ftb - 8vbx8xu2lq  j9qb334h0o  w
& RegionId =  cn - hangzhou
&< CommonPara  meters >
```

Response example

· XML format

```
< ModifyForw  ardEntryRe  sponse >
  < RequestId > 2315DEB7 - 5E92 - 423A - 91F7 - 4C1EC9AD97  C3 </
 RequestId >
</ ModifyForw  ardEntryRe  sponse >
```

· JSON format

```
{
```

```
 " RequestId ":" 2315DEB7 - 5E92 - 423A - 91F7 - 4C1EC9AD97  C3 "
}
```

Error codes

HTTP status code	Error code	Error message	Description
404	InvalidRegionId.NotFound	The specified RegionId does not exist in our records.	The specified region ID does not exist.
400	InvalidExternalIp.Malformed	The specified ExternalIp is not a valid IP address.	The specified public IP address is invalid.
400	InvalidInternalIp.Malformed	The specified InternalIp is not a valid IP address.	The specified InternalIp is invalid.
400	InvalidExternalPort.Malformed	The specified ExternalPort is not a valid port.	The public port is invalid.
400	InvalidInternalPort.Malformed	The specified InternalPort is not a valid port.	The private port is invalid.
400	Forbidden.DestnationIpOutOfVpcCIDR	The specified Destination Ip is Out of VPC CIDR.	The specified InternalIp is not in the CIDR block of the VPC.
400	InvalidProtocal.ValueNotSupported	The specified IpProtocol does not support.	The specified protocol type is not supported.
400	IncorretForwardEntryStatus	Some Forward entry status blocked this operation..	You cannot perform this operation because one or more DNAT entries in the DNAT table are in the Pending or Modifying state.
400	QuotaExceeded	Forward entry quota exceeded in this route table.	The quota for custom route entries in the route table has been reached. To increase the quota, open a ticket.

HTTP status code	Error code	Error message	Description
404	InvalidForwardEntryId.NotFound	Specified forward entry ID does not exist	The specified DNAT entry does not exist.
404	InvalidExternalIp.NotFound	Specified External Ip address does not found on the VRouter	The specified ExternalIp does not exist.
404	InvalidForwardTableId.NotFound	Specified forward table does not exist.	The specified DNAT table does not exist.
400	Forbidden.ExternalIp.UsedInSnatTable	The specified ExternalIp is already used in SnatTable	This specified ExternalIp is being used by an SNAT rule. Select a different IP address or delete the SNAT rule that uses this IP address.
400	Forbidden.Already.Bounded	The specified instance already bounded	The specified instance is already attached.

See common error codes

16.16 DeleteForwardEntry

Deletes a DNAT entry.

> Note:
> You cannot delete a DNAT entry if the DNAT entry in the Pending or Modifying state.

Debug

By using API Explorer, you can debug APIs, automatically generate SDK example codes, and quickly search for APIs.

Request parameters

Parameter	Type	Required?	Example value	Description
`Action`	String	Yes	DeleteForwardEntry	The name of this action. Value: `DeleteForwardEntry`
`ForwardEntryId`	String	Yes	fwd-8vbn3bc8roygjp0gy3xk7	The ID of the DNAT entry.
`ForwardTableId`	String	Yes	ftb-8vbx8xu2lqj9qb334h0ow	The ID of the DNAT table.
`RegionId`	String	Yes	cn-hangzhou	The region to which the NAT Gateway belongs. To query the region ID, call `DescribeRegions`.

Response parameters

Parameter	Type	Example value	Description
`RequestId`	String	0ED8D006-F706-4D23-88ED-E11ED28DCAC0	The ID of the request.

Examples

Request example

```
https://vpc.aliyuncs.com/?Action=DeleteForwardEntry
&ForwardEntryId=fwd-8vbn3bc8roygjp0gy3xk7
&ForwardTableId=ftb-8vbx8xu2lqj9qb334h0ow
&RegionId=cn-hangzhou
&<CommonParameters>
```

Response example

- XML format

```
<DeleteForwardEntryResponse>
  <RequestId>0ED8D006-F706-4D23-88ED-E11ED28DCAC0</
RequestId>
```

```
</ DeleteForw  ardEntryRe  sponse >
```

- JSON format

```
< DeleteForw  ardEntryRe  sponse >
  < RequestId > 0ED8D006 - F706 - 4D23 - 88ED - E11ED28DCA  C0 </
 RequestId >
</ DeleteForw  ardEntryRe  sponse >
```

Error codes

HTTP status code	Error code	Error message	Description
404	InvalidRegionId.NotFound	The specified RegionId does not exist in our records.	The specified region ID does not exist.
400	IncorretForwardEntryStatus	Some Forward entry status blocked this operation..	This operation cannot be performed because one or more DNAT entries are in the Pending or Modifying status.
404	InvalidForwardEntryId.NotFound	Specified forward entry ID does not exist	The specified DNAT entry does not exist.
404	InvalidForwardTableId.NotFound	Specified forward table does not exist.	The specified DNAT table does not exist.
400	IncorretForwardEntryStatus	The Specified forwardEntry is not exist	The specified DNAT entry does not exist.
400	MissingParameter	Missing mandatory parameter	Required parameters are missing.

See common error codes

16.17 CreateSnatEntry

Adds a SNAT entry to the SNAT table.

Before you call this API action to add an SNAT entry, note the following:

- The VSwitch specified in the SNAT entry must belong to the same VPC as the NAT Gateway.

- Each VSwitch and ECS instance can belong to only one SNAT entry.
- No SNAT entry can be added if any HAVIP instance exists in the VSwitch.
- The public IP address (SnatIp) in the SNAT entry must meet the following conditions:
  - If you purchased a NAT bandwidth package before January 26, 2018, SnatIp must be a public IP address in the NAT bandwidth package of the NAT Gateway.
  - If you did not purchase a NAT bandwidth package before January 26, 2018, SnatIp must be an EIP associated with the NAT Gateway.
  - A public IP address cannot be used by a DNAT entry and an SNAT entry at the same time.

Debug

Use OpenAPI Explorer to perform debug operations and generate SDK code examples.

Request parameters

Parameter	Type	Required?	Example value	Description
`Action`	String	Yes	CreateSnatEntry	The name of this action. Value: CreateSnatEntry.
`RegionId`	String	Yes	cn-hangzhou	The ID of the region to which the NAT Gateway belongs. To query the region ID, call DescribeRegions.
`SnatIp`	String	Yes	47.XX.XX.98	The public IP address. Multiple IP addresses are separated by commas.
`SnatTableId`	String	Yes	stb-bp190wu8io1vgev****	The ID of the SNAT table.

Parameter	Type	Required?	Example value	Description
`SnatEntryName`	String	No	SnatEntry-1	The name of the SNAT entry to be added. The name must be 2 to 128 characters in length and start with a letter or a Chinese character. The name cannot start with `http://` or `https://`.

Parameter	Type	Required?	Example value	Description
`SourceCIDR`	String	No	10.1.1.0/24	The CIDR block of the VSwitch or ECS instance. · VSwitch granularity: specifies the CIDR block of the VSwitch (for example, 192.168.1.0/24). When an ECS instance in the VSwitch initiates an Internet access request, the NAT Gateway provides the SNAT service (Internet proxy service) for the ECS instance. If you specify only one public IP address for the SnatIp parameter, the ECS instance uses the specified public IP address to access the Internet. However, if you specify multiple public IP addresses for the SnatIp parameter, the ECS instance randomly uses one of the specified public IP addresses to access the Internet. · ECS granularity: specifies the IP address of the ECS instance (for example, 192.168.1.1/32). When an ECS instance initiates an Internet access request, the NAT Gateway provides the SNAT service (Internet proxy service) for the ECS instance. If you specify only one public IP address for the SnatIp parameter, the ECS instance uses the specified public IP address to access the Internet. However, if you specify multiple public IP addresses for the SnatIp parameter, the ECS instance randomly uses one of the specified public IP addresses to access the Internet.

Parameter	Type	Required?	Example value	Description
`SourceVSwitchId`	String	No	vsw-bp1nhx2s9ui5o****	The ID of the VSwitch that requires access to the Internet.

Response parameters

Parameter	Type	Example value	Description
SnatEntryId	String	snat-kmd6nv8fy****	The ID of the SNAT entry.
RequestId	String	2315DEB7-5E92-423A-91F7-4C1EC9AD97C3	The ID of the request.

Examples

Request example

```
 https :// vpc . aliyuncs . com /? Action = CreateSnat  Entry
& RegionId = cn - hangzhou
& SnatIp = 47 . XX . XX . 98
& SnatTableI  d = stb - bp190wu8io  1vgevx ****
&< CommonPara  meters >
```

Response example

`XML` format

```
< CreateSnat  EntryRespo  nse >
  < RequestId > 2315DEB7 - 5E92 - 423A - 91F7 - 4C1EC9AD97  C3 </
 RequestId >
  < SnatEntryI  d > snat - 119smw5tkx ****</ SnatEntryI  d >
</ CreateSnat  EntryRespo  nse >
```

`JSON` format

```
{
 " RequestId ":" 2315DEB7 - 5E92 - 423A - 91F7 - 4C1EC9AD97  C3 ",
 " SnatEntryI  d ":" snat - kmd6nv8fyx ****"
}
```

Errors

HTTP status code	Error code	Error message	Description
404	InvalidRegionId.NotFound	The specified RegionId does not exist in our records.	The specified region ID does not exist.
404	InvalidSnatTableId.NotFound	Specified SNAT table does not exist.	The specified SNAT table does not exist.
400	Forbidden.SourceVSwitchId.IncludeHaVip	There is some HaVips under specified VSwitch	One or more HAVIPs already exist under the specified VSwitch.
400	InvalidSnatIp.Malformed	The specified SnatIp is not a valid IP address.	The specified SNAT IP address is invalid.
400	SNAT_IP_POOL_COUNT_TOO_MANY	The Snat pool ip too many.	The quota for IP addresses in the SNAT IP address pool has been reached.
400	Forbidden.SnatEntryCountLimited	SNAT entry in the specified SNAT table reaches its limit.	The quota for SNAT entries has been reached.
400	NOT_ALLOW_USE_SOURCE CIDR	The User not in nat_scope_unlimited white list. Cannot use SourceCidr param.	The specified intranet IP address does not belong to the CIDR block of the VPC.
404	InvalidVSwitchId.NotFound	The specified virtual switch does not exist.	The specified VSwitch does not exist.
400	INVALID_PARAMETER	The parameter is invalid.	The parameter is invalid.
400	Forbidden.SourceVSwitchId.Duplicated	The specified SourceCIDR is duplicated.	A SNAT rule has already been configured for this VSwitch.
404	InvalidSnatIp.NotFound	The specified SnatIp is not found in the NAT Gateway.	The public IP address is not found in the NAT Gateway.

HTTP status code	Error code	Error message	Description
400	Forbidden.IpUsedInForwardTable	The specified SnatIp already used in forward table.	This public IP address is being used by a DNAT rule. Select a different public IP address or delete the DNAT rule.
400	Forbidden	The specified Instance already bind eip	An EIP is already associated with this ECS instance. Disassociate the EIP from the ECS instance and then add the forwarding rule.
400	InvalidParameter.Name.Malformed	The specified Name is not valid.	The specified name is invalid. Enter a valid name and try again.

For a list of error codes, visit the API Error Center.

16.18 DescribeSnatTableEntries

Queries one or more SNAT entries in a SNAT table.

Debug

By using API Explorer, you can easily debug APIs, automatically generate SDK code examples, and quickly search for APIs.

Request parameters

Parameter	Type	Required?	Example value	Description
`Action`	String	Yes	DescribeSnatTableEntries	The name of this action. Value: `Describeforwardtable entries`

Parameter	Type	Required?	Example value	Description
`RegionId`	String	Yes	cn-hangzhou	The region to which the NAT Gateway belongs. To query the region ID, call `DescribeRegions`.
`SnatTableId`	String	Yes	stb-8vbczigrhop8x5u3twlhd	The ID of the SNAT table.
`PageNumber`	Integer	No	1	The number of pages to return. Default value: `1` .
`PageSize`	Integer	No	10	The number of rows per page. Maximum value: `50` . Default value: `10` .
`SnatEntryId`	String	No	snat-8vbae8uqh7rjpk7d2kuwt	The ID of the SNAT entry.

Response parameters

Parameter	Type	Example value	Description
SnatTableEntries	N/A	N/A	A list of SNAT entries.
└SnatEntryId	String	snat-kmd6nv8fy	The ID of the SNAT entry.
└SnatIp	String	116.62.222.28	The public IP address in the SNAT entry.
└SnatTableId	String	stb-gz3r3odaw	The ID of the SNAT table to which the SNAT entry belongs.
└SourceCIDR	String	116.62.222.28/33	The source CIDR block of the SNAT entry.

Parameter	Type	Example value	Description
└ SourceVSwitchId	String	vsw-3xbxxxxx	The ID of the VSwitch that accesses the Internet through the SNAT function.
└Status	String	Pending	The status of the SNAT entry.
TotalCount	Integer	1	The number of queried entries.
PageNumber	Integer	1	The current page number.
PageSize	Integer	5	The number of entries per page.
RequestId	String	6D7E89B1-1C5B-412B-8585-4908E222EED5	The ID of the request.

Examples

Request example

```
 https :// vpc . aliyuncs . com /? Action = DescribeSn  atTableEnt
 ries
& RegionId = cn - hangzhou
& SnatTableI  d = stb - 8vbczigrho  p8x5u3twlh  d
&< CommonPara  meters >
```

Response example

- XML format

```
< DescribeSn  atTableEnt  riesRespon  se >
  < PageNumber > 1 </ PageNumber >
  < PageSize > 10 </ PageSize >
  < RequestId > 6D7E89B1 - 1C5B - 412B - 8585 - 4908E222EE  D5 </
 RequestId >
  < SnatTableE  ntries >
    < SnatTableE  ntry >
      < SnatEntryI  d > snat - kmd6nv8fy </ SnatEntryI  d >
      < SnatIp > 139 . xxx . xx . 40 </ SnatIp >
      < SnatTableI  d > stb - gz3r3odaw </ SnatTableI  d >
      < SourceCIDR > 192 . 168 . 1 . 0 / 24 </ SourceCIDR >
      < SourceVSwi  tchId > vsw - yrv0xxxxx </ SourceVSwi  tchId >
      < Status > Available </ Status >
    </ SnatTableE  ntry >
    < SnatTableE  ntry >
      < SnatEntryI  d > snat - bs5bezbme </ SnatEntryI  d >
      < SnatIp > 139 . xxx . xx . 40 </ SnatIp >
      < SnatTableI  d > stb - gz3r3odaw </ SnatTableI  d >
      < SourceCIDR > 192 . 168 . 3 . 0 / 24 </ SourceCIDR >
```

```
      < SourceVSwi  tchId > vsw - 3xbxxxxx </ SourceVSwi  tchId >
      < Status > Available </ Status >
    </ SnatTableE  ntry >
  </ SnatTableE  ntries >
</ DescribeSn  atTableEnt  riesRespon  se >
```

- JSON format

```
{
 " SnatTableE  ntries ":{
  " SnatTableE  ntry ":[
   {
    " Status ":" Available ",
    " SourceCIDR ":" 192 . 168 . 1 . 0 / 24 ",
    " SnatTableI  d ":" stb - gz3r3odaw ",
    " SnatIp ":" 139 . xxx . xx . 40 ",
    " SnatEntryI  d ":" snat - kmd6nv8fy ",
    " SourceVSwi  tchId ":" vsw - yrv0xxxxx "
   },
   {
    " Status ":" Available ",
    " SourceCIDR ":" 192 . 168 . 3 . 0 / 24 ",
    " SnatTableI  d ":" stb - gz3r3odaw ",
    " SnatIp ":" 139 . xxx . xx . 40 ",
    " SnatEntryI  d ":" snat - bs5bezbme ",
    " SourceVSwi  tchId ":" vsw - 3xbxxxxx "
   }
  ]
 },
 " PageNumber ": 1 ,
 " PageSize ": 10 ,
 " RequestId ":" 6D7E89B1 - 1C5B - 412B - 8585 - 4908E222EE  D5 "
}
```

Error codes

HTTP status code	Error code	Error message	Description
404	InvalidRegionId.NotFound	The specified RegionId does not exist in our records.	The specified region ID does not exist.
404	InvalidSnatTableId.NotFound	Specified SNAT table does not exist.	The specified SNAT table does not exist.

See common error codes

16.19 ModifySnatEntry

Modifies an SNAT entry.

> **Note:**
> You cannot modify an SNAT entry that is in the Pending or Modifying state.

Debug

By using API Explorer, you can easily debug APIs, automatically generate SDK code examples, and quickly search for APIs.

Request parameters

Parameter	Type	Required?	Example value	Description
`Action`	String	Yes	ModifySnatEntry	The name of this action. Value: `ModifySnatEntry`
`RegionId`	String	Yes	cn-hangzhou	The region to which the NAT Gateway belongs. To query the region ID, call `DescribeRegions`.
`SnatEntryId`	String	Yes	snat-bp1vcgcf8tm0plqcgfl04	The ID of the SNAT entry.
`SnatIp`	String	Yes	47.XXX.XXX.98	The public IP address. Separate multiple IP addresses with commas.
`SnatTableId`	String	Yes	stb-8vbczigrhop8x5u3twlhd	The ID of the SNAT table.

Response parameters

Parameter	Type	Example value	Description
`RequestId`	String	2315DEB7-5E92-423A-91F7-4C1EC9AD97C3	The ID of the request.

Examples

Request example

```
 https :// vpc . aliyuncs . com /? Action = ModifySnat  Entry
& RegionId = cn - hangzhou
& SnatEntryI  d = snat - bp1vcgcf8t  m0plqcgfl0  4
& SnatIp = 47 . XXX . XXX . 98
& SnatTableI  d = stb - 8vbczigrho  p8x5u3twlh  d
&< CommonPara  meters >
```

Response example

- XML format

```
< ModifySnat  EntryRespo  nse >
  < RequestId > 2315DEB7 - 5E92 - 423A - 91F7 - 4C1EC9AD97  C3 </
 RequestId >
</ ModifySnat  EntryRespo  nse >
```

- JSON format

```
{
 " RequestId ":" 2315DEB7 - 5E92 - 423A - 91F7 - 4C1EC9AD97  C3 "
}
```

Error codes

HTTP status code	Error code	Error message	Description
404	InvalidRegionId.NotFound	The specified RegionId does not exist in our records.	The specified region ID does not exist.
404	InvalidSnatTableId.NotFound	Specified SNAT table does not exist.	The specified SNAT table does not exist.
400	InvalidSnatIp.Malformed	The specified SnatIp is not a valid IP address.	The specified SnatIp is invalid.
404	InvalidSnatEntryId.NotFound	Specified SNAT entry does not exist.	The specified SNAT entry does not exist.
400	Forbidden.SourceVSwitchId.Duplicated	The specified SourceCIDR is duplicated.	SNAT rules have already been configured for this VSwitch.

HTTP status code	Error code	Error message	Description
400	Forbidden.IpUsedInForwardTable	The specified SnatIp already used in forward table	The specified public IP address is already being used by a DNAT rule. Select a different IP address or delete the DNAT rule that uses this IP address.

See common error codes

16.20 DeleteSnatEntry

Deletes an SNAT entry.

> Note:
> You cannot delete an SNAT entry if the SNAT entry in the Pending or Modifying state.

Debug

By using API Explorer, you can easily debug APIs, automatically generate SDK code examples, and quickly search for APIs.

Request parameters

Parameter	Type	Required?	Example value	Description
`Action`	String	Yes	DeleteSnatEntry	The name of this action. Value: `DeleteSnatEntry`
`RegionId`	String	Yes	cn-hangzhou	The region ID of the NAT Gateway where the SNAT entry is to be deleted. To query the region ID, call `DescribeRegions`.

Parameter	Type	Required?	Example value	Description
SnatEntryId	String	Yes	snat-bp1vcgcf8tm0plqcgfl04	The ID of the SNAT entry to be deleted.
SnatTableId	String	Yes	stb-bp190wu8io1vgev80kec7	The ID of the SNAT table from which the SNAT entry is to be deleted.

Response parameters

Parameter	Type	Example value	Description
RequestId	String	47B80B6A-759A-479C-A565-76D04BDA29F3	The ID of the request.

Examples

Request example

```
https://vpc.aliyuncs.com/?Action=DeleteSnatEntry
&RegionId=cn-hangzhou
&SnatEntryId=snat-bp1vcgcf8tm0plqcgfl04
&SnatTableId=stb-bp190wu8io1vgev80kec7
&<CommonParameters>
```

Response example

- XML format

```
<DeleteSnatEntryResponse>
  <RequestId>0ED8D006-F706-4D23-88ED-E11ED28DCAC0</
 RequestId>
</DeleteSnatEntryResponse>
```

- JSON format

```
{
 "RequestId":"0ED8D006-F706-4D23-88ED-E11ED28DCAC0"
```

```
}
```

Error codes

HTTP status code	Error code	Error message	Description
404	InvalidRegionId.NotFound	The specified RegionId does not exist in our records.	The specified region ID does not exist.
400	IncorretSnatEntryStatus	Some Snat entry status blocked this operation..	You cannot perform this operation because one or more SNAT entries are in the Pending or Modifying state.
404	InvalidSnatEntryId.NotFound	Specified Snat entry ID does not exist	The specified SNAT entry does not exist.
404	InvalidSnatTableId.NotFound	Specified SNAT table does not exist.	The specified SNAT table does not exist.
404	InvalidSnatEntryId.NotFound	Specified SNAT entry does not exist.	The specified SNAT entry does not exist.

View common error codes

16.21 ConvertBandwidthPackage

Converts a NAT bandwidth package.

Debug

Use OpenAPI Explorer to perform debug operations and generate SDK code examples.

Request parameters

Parameter	Type	Required?	Example value	Description
`Action`	String	Yes	ConvertBandwidthPackage	The name of this action. Value: ConvertBandwidthPackage

Parameter	Type	Required?	Example value	Description
BandwidthPackageId	String	Yes	bwp-bp1xea10o8qxw4f****	The ID of the NAT bandwidth package to be converted.
RegionId	String	Yes	cn-hangzhou	The ID of the region to which the NAT Gateway belongs. To query the region ID, call DescribeRegions.
ClientToken	String	No	123e4567-e89b-12d3-a456-426655440000	The client token that guarantees the idempotence of the request. The value of this parameter is generated by the client. The value is unique among different requests and is 1 to 64 ASCII characters in length.

Response parameters

Parameter	Type	Example value	Description
ConvertInstanceId	String	bwp-s6lmotmkkf567b****	The ID of the NAT bandwidth package after the conversion.
RequestId	String	455AC20C-7061-446A-BDBD-B3BEE0856304	The ID of the request.

Examples

Request example

```
http(s)://[Endpoint]/?Action=ConvertBandwidthPackage
&BandwidthPackageId=bwp-bp1xea10o8qxw4f****
&RegionId=cn-hangzhou
&<CommonParameters>
```

Response example

`XML` format

```
< ConvertBan  dwidthPack  ageRespons  e >
   < RequestId > 0C2EE7A8 - 74D4 - 4081 - 8236 - CEBDE3BBCF  50 </
 RequestId >
   < ConvertIns  tanceId > bwp - s6lmotmkkf  567b ****</ ConvertIns
 tanceId >
</ ConvertBan  dwidthPack  ageRespons  e >
```

`JSON` format

```
{
 " RequestId ":" 0C2EE7A8 - 74D4 - 4081 - 8236 - CEBDE3BBCF  50 ",
 " ConvertIns  tanceId ":" bwp - s6lmotmkkf  567b ****"
}
```

Errors

HTTP status code	Error code	Error message	Description
500	InternalError	The request processing has failed due to some unknown error.	The request failed to be processed due to unknown errors.

For a list of error codes, visit the API Error Center.

17 Global Acceleration

17.1 CreateGlobalAccelerationInstance

Creates a Global Acceleration instance.

> **Note:**
> This API only supports creating Pay-As-You-Go Global Acceleration instances.

Debug

By using API Explorer, you can easily debug APIs, automatically generate SDK code examples, and quickly search for APIs.

Request parameters

Parameter	Type	Required?	Example value	Description
`Action`	String	Yes	CreateGlobalAccelerationInstance	The name of this action. Value: `CreateGlobalAccelerationInstance`
`Bandwidth`	Integer	Yes	10	The bandwidth in Mbps of the instance. Valid values: `10 , 20 , 30 , 40 , 50 , 60 , 70 , 80 , 90 , 100 , 200 , 300 , 400 , 500 , 600 , 700 , 800 , 900 , 1000`

Parameter	Type	Required?	Example value	Description
`RegionId`	String	Yes	cn-hangzhou	The ID of the region where the Global Acceleration instance is located. To query the region ID, call `DescribeRegions`.
`ServiceLocation`	String	Yes	china-mainland	The service area of the instance. Valid values: · `china-mainland`: Mainland China · `north-america`: North America · `asia-pacific`: Asia Pacific · `europe`: Europe For more information, see Service areas.
`BandwidthType`	String	No	Exclusive	The type of the Global Acceleration instance. Valid values: · `Sharing`: Creates a shared-bandwidth instance. · `Exclusive` (default): Creates a dedicated-bandwidth instance. For more information, see Instance types.

Parameter	Type	Required?	Example value	Description
`ClientToken`	String	No	02fb3da4-130e-11e9-8e44-0016e04115b	A client token used to guarantee the idempotence of requests. This parameter value is generated by the client and must be unique. It must be 1 to 64 ASCII characters in length.
`Description`	String	No	My GA	The description of the Global Acceleration instance. The description must be 2 to 256 characters in length. It must start with a letter, but cannot start with `http://` or `https://`.
`Name`	String	No	GA-1	The name of the instance. The name must be 2 to 128 characters in length and can contain letters, numbers, periods (.), underscores (_), or hyphens (-). The name must start with a letter , but cannot start with `http://` or `https://`.

Response parameters

Parameter	Type	Example value	Description
GlobalAccelerationInstanceId	String	ga-t4nluhu6	The ID of the Global Acceleration instance.

Parameter	Type	Example value	Description
IpAddress	String	12.34.56.78	The public IP address of the Global Acceleration instance.
RequestId	String	21AAFD16-F784-4BFB-XXXX-XXXXXXXX	The ID of the request.

Examples

Request example

```
 https :// vpc . aliyuncs . com /? Action = CreateGlob  alAccelera
 tionInstan  ce
& Bandwidth = 10
& RegionId = cn - hangzhou
& ServiceLoc  ation = china - mainland
&< CommonPara  meters >
```

Response example

XML format

```
< CreateGlob  alAccelera  tionInstan  ceResponse >
  < GlobalAcce  lerationIn  stanceId > ga - t4nluhu6 </ GlobalAcce
 lerationIn  stanceId >
  < IpAddress > 12 . 34 . 56 . 78 </ IpAddress >
  < RequestId > 21AAFD16 - F784 - 4BFB - XXXX - XXXXXXXX </ RequestId
 >
</ CreateGlob  alAccelera  tionInstan  ceResponse >
```

JSON format

```
{
 " GlobalAcce  lerationIn  stanceId ":" ga - t4nluhu6 ",
 " RequestId ":" 21AAFD16 - F784 - 4BFB - XXXX - XXXXXXXX ",
 " IpAddress ":" 12 . 34 . 56 . 78 "
}
```

Error codes

HTTP status code	Error code	Error message	Description
400	InvalidServiceLocation.ValueNotSupported	The specified ServiceLocation is not supported.	The specified service area is not supported.

HTTP status code	Error code	Error message	Description
400	InvalidGlobalAccelerationInstanceName.Malformed	The specified Name is not valid.	The name format is invalid.
400	InvalidGlobalAccelerationInstanceDescription.Malformed	The specified Description is not valid.	The description format is invalid

See common error codes

17.2 DescribeGlobalAccelerationInstances

Queries one or more Global Acceleration instances.

Debug

By using API Explorer, you can easily debug APIs, automatically generate SDK code examples, and quickly search for APIs.

Request parameters

Parameter	Type	Required?	Example value	Description
`Action`	String	Yes	DescribeGlobalAccelerationInstances	The name of this action. Value: `DescribeGlobalAccelerationInstances`
`RegionId`	String	Yes	cn-hangzhou	The ID of the region where the Global Acceleration instance is located. To query the region ID, call `DescribeRegions`.

Parameter	Type	Required?	Example value	Description
BandwidthType	String	No	Exclusive	The type of the Global Acceleration instance. Valid values: · Sharing : Queries only shared-bandwidth instances. · Exclusive (Default): Queries only dedicated-bandwidth instances.
GlobalAccelerationInstanceId	String	No	ga-234sljmxazb4	The ID of the Global Acceleration instance.
IncludeReservationData	Boolean	No	false	Indicates whether one or more specifications in the purchase order that have not taken effect are included. Default value: false.
IpAddress	String	No	12.34.56.78	The public IP address of the Global Acceleration instance.
Name	String	No	GA-1	The name of the Global Acceleration instance.
PageNumber	Integer	No	10	The number of pages to return. Default value: 1 .
PageSize	Integer	No	10	The number of rows per page. Maximum value: 50 . Default value: 10 .
ServerId	String	No	i-sxjbl9xgc	The ID of the accelerated backend server.

Parameter	Type	Required?	Example value	Description
`ServiceLocation`	String	No	china-mainland	The service area of the Global Acceleration instance. Valid values: · `china-mainland`: Mainland China · `north-america`: North America · `asia-pacific`: Asia Pacific · `europe`: Europe
`Status`	String	No	Available	The status of the Global Acceleration instance. Valid values: · `Available`: available · `Inuse`: allocated · `Associating`: being attached · `Unassociating`: being detached

Response parameters

Parameter	Type	Example value	Description
GlobalAccelerationInstances	N/A	N/A	A list of Global Acceleration instances.
└AccelerationLocation	String	china-mainland	The accelerated area of the Global Acceleration instance.

Parameter	Type	Example value	Description
└BackendServers	N/A	N/A	The list of backend servers associated with the Global Acceleration instance.
└RegionId	String	cn-Beijing	The ID of the region where the backend server is located.
└ServerId	String	i-2zeg83zvn5d4ed4y2rxx	The ID of the backend server.
└ServerIpAddress	String	172.17.109.xxx	The IP address of the backend server.
└ServerType	String	EcsInstance	The type of the backend server.
└Bandwidth	String	10	The peak bandwidth of the Global Acceleration instance.
└BandwidthType	String	Exclusive	The bandwidth type of the Global Acceleration instance.
└ChargeType	String	PrePaid	The billing method of the Global Acceleration instance: · PostPaid: Pay-As-You-Go
└CreationTime	String	2018-07-05T03:39:31Z	The time at which the Global Acceleration instance was created. UTC time is used.
└Description	String	apiDescription	The description of the Global Acceleration instance.
└ExpiredTime	String	2018-08-05T16:00Z	The time at which the Global Acceleration instance is to expire.
└GlobalAccelerationInstanceId	String	ga-bp1x99kj7kl1ziw5xuwb5	The ID of the Global Acceleration instance.

Parameter	Type	Example value	Description
└InternetChargeType	String	PayByBandwidth	The billing method of the Global Acceleration instance.
└IpAddress	String	47.98.99.xxx	The public IP address of the exclusive-bandwidth Global Acceleration instance.
└Name	String	instanceName	The name of the Global Acceleration instance.
└PublicIpAddresses	N/A	N/A	The public IP address.
└AllocationId	String	12.34.56.78	The ID of the public IP address of the Global Acceleration instance.
└IpAddress	String	12.34.56.78	The public IP address of the Global Acceleration instance.
└RegionId	String	cn-hangzhou	The region where the Global Acceleration instance is located.
└ServiceLocation	String	china-mainland	The service area of the Global Acceleration instance.
└Status	String	InUse	The status of the Global Acceleration instance.
TotalCount	Integer	1	The number of queries entries.
PageNumber	Integer	1	The current page number.
PageSize	Integer	10	The number of entries per page.
RequestId	String	6B4EE38D-C75B-4E1F-844E-863A94430676	The ID of the request.

Examples

Request example

```
 https :// vpc . aliyuncs . com /? Action = DescribeGl  obalAccele
 rationInst  ances
& RegionId = cn - hangzhou
&< CommonPara  meters >
```

Response example

XML format

```
< DescribeGl  obalAccele  rationInst  ancesRespo  nse >
  < PageNumber > 1 </ PageNumber >
  < TotalCount > 1 </ TotalCount >
  < PageSize > 10 </ PageSize >
  < RequestId > 6B4EE38D - C75B - 4E1F - 844E - 863A944306  76 </
 RequestId >
  < GlobalAcce  lerationIn  stances >
    < GlobalAcce  lerationIn  stance >
      < ChargeType > PrePaid </ ChargeType >
      < GlobalAcce  lerationIn  stanceId > ga - bp1x99kj7k
 l1ziw5xuwb  5 </ GlobalAcce  lerationIn  stanceId >
      < HasReserva  tionData > false </ HasReserva  tionData >
      < Descriptio  n />
      < BackendSer  vers >
        < BackendSer  ver >
          < ServerId > i - 2zeg83zvn5  d4ed4y2r4c </ ServerId >
          < RegionId > cn - beijing </ RegionId >
          < ServerType > EcsInstanc  e </ ServerType >
          < ServerIpAd  dress > 172 . 17 . 109 . xxx </ ServerIpAd
 dress >
        </ BackendSer  ver >
      </ BackendSer  vers >
      < IpAddress > 47 . 98 . 99 . xxx </ IpAddress >
      < InternetCh  argeType > PayByBandw  idth </ InternetCh
 argeType >
      < Name />
      < BandwidthT  ype > Exclusive </ BandwidthT  ype >
      < CreationTi  me > 2018 - 07 - 05T03 : 39 : 31Z </ CreationTi
 me >
      < Status > InUse </ Status >
      < ServiceLoc  ation > china - mainland </ ServiceLoc  ation >
      < RegionId > cn - hangzhou </ RegionId >
      < Accelerati  onLocation > china - mainland </ Accelerati
 onLocation >
      < OperationL  ocks />
      < ExpiredTim  e > 2018 - 08 - 05T16 : 00Z </ ExpiredTim  e >
      < PublicIpAd  dresses />
      < Bandwidth > 10 </ Bandwidth >
    </ GlobalAcce  lerationIn  stance >
  </ GlobalAcce  lerationIn  stances >
</ DescribeGl  obalAccele  rationInst  ancesRespo  nse >
```

JSON format

```
{
 " PageNumber ": 1 ,
```

```
" TotalCount ": 1 ,
" PageSize ": 10 ,
" RequestId ":" 6B4EE38D - C75B - 4E1F - 844E - 863A944306  76 ",
" GlobalAcce  lerationIn  stances ":{
 " GlobalAcce  lerationIn  stance ":[
  {
   " ChargeType ":" PrePaid ",
   " GlobalAcce  lerationIn  stanceId ":" ga - bp1x99kj7k
l1ziw5xuwb  5 ",
   " HasReserva  tionData ": false ,
   " Descriptio  n ":"",
   " BackendSer  vers ":{
    " BackendSer  ver ":[
     {
      " ServerId ":" i - 2zeg83zvn5  d4ed4y2r4c ",
      " RegionId ":" cn - beijing ",
      " ServerType ":" EcsInstanc  e ",
      " ServerIpAd  dress ":" 172 . 17 . 109 . xxx "
     }
    ]
   },
   " IpAddress ":" 47 . 98 . 99 . xxx ",
   " InternetCh  argeType ":" PayByBandw  idth ",
   " Name ":"",
   " BandwidthT  ype ":" Exclusive ",
   " CreationTi  me ":" 2018 - 07 - 05T03 : 39 : 31Z ",
   " Status ":" InUse ",
   " ServiceLoc  ation ":" china - mainland ",
   " RegionId ":" cn - hangzhou ",
   " Accelerati  onLocation ":" china - mainland ",
   " OperationL  ocks ":{
    " LockReason ":[]
   },
   " ExpiredTim  e ":" 2018 - 08 - 05T16 : 00Z ",
   " PublicIpAd  dresses ":{
    " PublicIpAd  dress ":[]
   },
   " Bandwidth ":" 10 "
  }
 ]
}
}
```


Error codes

See common error codes

17.3 ModifyGlobalAccelerationInstanceAttributes

Modifies the name and description of a Global Acceleration instance.

Debug

By using API Explorer, you can easily debug APIs, automatically generate SDK code examples, and quickly search for APIs.

Request parameters

Parameter	Type	Required?	Example value	Description
`Action`	String	Yes	ModifyGlobalAccelerationInstanceAttributes	The name of this action. Value: `ModifyGlobalAccelerationInstanceAttributes`
`GlobalAccelerationInstanceId`	String	Yes	ga-14fdsf3xxxxx	The ID of the Global Acceleration instance.
`RegionId`	String	Yes	cn-hangzhou	The region where the Global Acceleration instance is located. To query the region ID, call `DescribeRegions`.
`Description`	String	No	My GA	The description of the Global Acceleration instance. The description must be 2 to 256 characters in length. It must start with a letter, but cannot start with `http://` or `https://`.

Parameter	Type	Required?	Example value	Description
`Name`	String	No	GA-1	The name of the Global Acceleration instance. The name must be 2 to 128 characters in length and can contain letters, numbers, periods (.), underscores (_), or hyphens (-). The name must start with a letter, but cannot start with `http://` or `https://`.

Response parameters

Parameter	Type	Example value	Description
`RequestId`	String	BD5BCEE8-F62C-40C2-9AC3-89XXXXXXXXX	The ID of the request.

Example

Request example

```
https://vpc.aliyuncs.com/?Action=ModifyGlobalAccelerationInstanceAttributes
&GlobalAccelerationInstanceId=ga-14fdsf3xxxxx
&RegionId=cn-hangzhou
&<CommonParameters>
```

Response example

XML format

```
<ModifyGlobalAccelerationInstanceAttributesResponse>
  <RequestId>185E81B1-3916-4667-B48F-C52409B33F2B</
RequestId>
</ModifyGlobalAccelerationInstanceAttributesResponse>
```

JSON format

```
{
"RequestId":"BD5BCEE8-F62C-40C2-9AC3-89XXXXXXXX X"
```

```
}
```

Error codes

HTTP status code	Error code	Error message	Description
400	InvalidGlobalAccelerationInstanceId.NotFound	The specified GlobalAccelerationInstanceId is not found.	The specified Global Acceleration instance does not exist.
400	InvalidGlobalAccelerationInstanceName.Malformed	The specified Name is not valid.	The name format is invalid.
400	InvalidGlobalAccelerationInstanceDescription.Malformed	The specified Description is not valid.	The description format is invalid.

See common error codes

17.4 ModifyGlobalAccelerationInstanceSpec

Modifies the bandwidth of a Global Acceleration instance.

Debug

By using API Explorer, you can easily debug APIs, automatically generate SDK code examples, and quickly search for APIs.

Request parameters

Parameter	Type	Required?	Example value	Description
`Action`	String	Yes	ModifyGlobalAccelerationInstanceSpec	The name of this action. Value: `ModifyGlobalAccelerationInstanceSpec`

Parameter	Type	Required?	Example value	Description
`Bandwidth`	Integer	Yes	10	The peak bandwidth in Mbps of the Global Acceleration instance. Valid values: 10,20,30,40,50,60,70,80,90,100,200,300,400,500,600,700,800,900,1000
`GlobalAccelerationInstanceId`	String	Yes	ga-32s33sxxxxxxxx	The ID of the Global Acceleration instance.
`RegionId`	String	Yes	cn-hangzhou	The ID of the region where the Global Acceleration instance is located. To query the region ID, call `DescribeRegions`.

Response parameters

Parameter	Type	Example value	Description
`RequestId`	String	BD5BCEE8-F62C-40C2-9AC3-89XXXXXXXXX	The ID of the request.

Examples

Request example

```
 https :// vpc . aliyuncs . com /? Action = ModifyGlob  alAccelera
 tionInstan  ceSpec
& Bandwidth = 10
& GlobalAcce  lerationIn  stanceId = ga - 32s33sxxxx  xxxx
& RegionId = cn - hangzhou
&< CommonPara  meters >
```

Response example

XML format

```
< ModifyGlob  alAccelera  tionInstan  ceSpecResp  onse >
  < RequestId > BD5BCEE8 - F62C - 40C2 - 9AC3 - 89XXXXXXXX  X </
 RequestId >
```

```
</ ModifyGlob  alAccelera  tionInstan  ceSpecResp  onse >
```

JSON format

```
{
 " RequestId ":" BD5BCEE8 - F62C - 40C2 - 9AC3 - 89XXXXXXXX  X "
}
```

Error codes

HTTP status code	Error code	Error message	Description
400	InvalidGlobalAccelerationInstanceId.NotFound	The specified GlobalAccelerationInstanceId is not found.	The specified Global Acceleration instance does not exist.
400	InvalidGlobalAccelerationInstanceName.Malformed	The specified Name is not valid.	The name format is invalid.
400	InvalidGlobalAccelerationInstanceDescription.Malformed	The specified Description is not valid.	The description format is invalid.
500	InternalError	The request processing has failed due to some unknown error.	An error occurred while the request was being processed.

See common error codes

17.5 DeleteGlobalAccelerationInstance

Deletes a Global Acceleration instance.

Note the following before you call this action:

- Only Pay-As-You-Go instances can be deleted.
- If you want to delete a dedicated-bandwidth instance, you must first detach the backend server before deleting the instance.

- If you want to delete a shared-bandwidth instance, you must first disassociate the EIP or EIPs before deleting the instance.

Debug

By using API Explorer, you can easily debug APIs, automatically generate SDK code examples, and quickly search for APIs.

Request parameters

Parameter	Type	Required?	Example value	Description
`Action`	String	Yes	DeleteGlobalAccelerationInstance	The name of this action. Value: `DeleteGlobalAccelerationInstance`
`GlobalAccelerationInstanceId`	String	Yes	ga-asdfsl22sxxxx	The ID of the Global Acceleration instance.
`RegionId`	String	Yes	cn-hangzhou	The ID of the region where the Global Acceleration instance is located. To query the region ID, call `DescribeRegions`.

Response parameters

Parameter	Type	Example value	Description
`RequestId`	String	E6E63B2A-9820-44A8-A359-9BB2DAEE6424	The ID of the request.

Examples

Request example

```
https://vpc.aliyuncs.com/?Action=DeleteGlobalAccelerationInstance
&GlobalAccelerationInstanceId=ga-asdfsl22sxxxx
&RegionId=cn-hangzhou
```

```
&< CommonPara  meters >
```

Response example

XML format

```
< DeleteGlob  alAccelera  tionInstan  ceResponse >
  < RequestId > E6E63B2A - 9820 - 44A8 - A359 - 9BB2DAEE64  24 </
 RequestId >
</ DeleteGlob  alAccelera  tionInstan  ceResponse >
```

JSON format

```
{
 " RequestId ":" E6E63B2A - 9820 - 44A8 - A359 - 9BB2DAEE64  24 "
}
```

Error codes

HTTP status code	Error code	Error message	Description
400	IncorrectGlobalAccelerationInstanceIdStatus	Current GlobalAccelerationInstance status does not support this operation.	The specified Global Acceleration instance does not support this operation.
400	InvalidGlobalAccelerationInstanceId.NotFound	The specified GlobalAccelerationInstanceId is not found.	The specified Global Acceleration instance does not exist.
400	IncorrectStatus	This openeration would be allowed only when status of this RouterInterface is Idle/Inactive.	This operation is not permitted because the associated router interface is not in the Idle or Inactive state.

See common error codes

17.6 AssociateGlobalAccelerationInstance

Associates a backend server instance with a Global Acceleration instance.

Note the following before you call this API action:

- Only a VPC ECS instance or a VPC SLB instance can act as a backend server instance of the Global Acceleration instance.

- Each Global Acceleration instance can be associated with only one backend server instance.
- Multiple Global Acceleration instances can be associated with the same backend server instance.
- The Global Acceleration instance and the backend server instance must belong to the same account.
- The region to which the backend server instance belongs must be in the service area of the Global Acceleration instance.
- Only a dedicated-bandwidth Global Acceleration instance can be associated with a backend server instance through this API.

To associate a shared-bandwidth Global Acceleration instance with a backend server instance, follow these steps:

1. Add an EIP to the shared-bandwidth Global Acceleration instance. For more information, see AddGlobalAccelerationInstanceIp.

2. Associate the EIP with the backend server instance. For more information, see AssociateEipAddress. When you call AssociateEipAddress, you must specify the InstanceRegionId parameter.

Debug

Use OpenAPI Explorer to perform debug operations and generate SDK code examples.

Request parameters

Parameter	Type	Required?	Example value	Description
`Action`	String	Yes	AssociateGlobalAccelerationInstance	The name of this action. Value: AssociateGlobalAccelerationInstance
`BackendServerId`	String	Yes	i-saf23****	The ID of the backend service instance.

Parameter	Type	Required?	Example value	Description
BackendServerRegionId	String	Yes	cn-shanghai	The region to which the backend server instance belongs. This region must belong to the service area of the Global Acceleration instance.
GlobalAccelerationInstanceId	String	Yes	ga-lsajj32****	The ID of the Global Acceleration instance.
RegionId	String	Yes	cn-hangzhou	The ID of the region to which the Global Acceleration instance belongs. To query the region ID, call DescribeRegions.
BackendServerType	String	No	EcsInstance	Optional. The type of the backend server instance. Valid values: · EcsInstance (default): ECS instance · SlbInstance: SLB instance

Response parameters

Parameter	Type	Example value	Description
RequestId	String	DDF2CC38-76C7-4000-909D-B2088158AEDA	The ID of the request.

Examples

Request example

```
https://vpc.aliyuncs.com/?Action=AssociateGlobalAccelerationInstance
&BackendServerId=i-saf23****
```

```
& BackendSer  verRegionI  d = cn - shanghai
& GlobalAcce  lerationIn  stanceId = ga - lsajj32 ****
& RegionId = cn - hangzhou
&< CommonPara  meters >
```

Response example

`XML` **format**

```
< AssociateG  lobalAccel  erationIns  tanceRespo  nse >
      < RequestId > DDF2CC38 - 76C7 - 4000 - 909D - B2088158AE  DA </
 RequestId >
</ AssociateG  lobalAccel  erationIns  tanceRespo  nse >
```

`JSON` **format**

```
{
 " RequestId ":" DDF2CC38 - 76C7 - 4000 - 909D - B2088158AE  DA "
}
```

Errors

HTTP status code	Error code	Error message	Description
404	InvalidGlobalAccelerationInstanceId.NotFound	The specified GlobalAccelerationInstanceId is not found.	The specified Global Acceleration instance does not exist.
404	InvalidBackendServerId.NotFound	The specified BackendServerId is not found.	The specified backend server instance does not exist.
400	IncorrectGlobalAccelerationInstanceIdStatus	Current GlobalAccelerationInstance status does not support this operation.	The status of the specified Global Acceleration instance does not support this operation.
400	InvalidBackendServerId.NotInVPC	The specified BackendServerId is not in VPC.	The specified BackendServerId is not of the VPC type.
400	TaskConflict.AssociateGlobalAccelerationInstance	Operate too frequent.	Too many requests were sent.

HTTP status code	Error code	Error message	Description
400	InvalidBackendServerRegionId.EqualRegionId	The specified BackendServerRegionId can not be the same as RegionId.	The specified BackendServerRegionId cannot be the same as the RegionId.
400	InvalidAssociation.Duplicated	Specified instance already is associated.	The specified instance is already associated with an EIP or a Global Acceleration instance. You must detach this instance before you can associate it with another EIP or Global Acceleration instance.
400	InvalidBackendServerType.NotFound	The specified BackendServerType is not supported.	The type of the specified backend server instance is not supported.
400	InvalidParameter	The specified parameter is not valid.	The specified parameter value is invalid.

For a list of error codes, visit the API Error Center.

17.7 UnassociateGlobalAccelerationInstance

Detaches a Global Acceleration instance from its corresponding backend server.

Debug

By using API Explorer, you can easily debug APIs, automatically generate SDK code examples, and quickly search for APIs.

Request parameters

Parameter	Type	Required?	Example value	Description
`Action`	String	Yes	UnassociateGlobalAccelerationInstance	The name of this action. Value: `UnassociateGlobalAccelerationInstance`

Parameter	Type	Required?	Example value	Description
GlobalAcceleratorInstanceId	String	Yes	ga-1sxee33xxxx	The ID of the Global Acceleration instance.
RegionId	String	Yes	cn-hangzhou	The region where the Global Acceleration instance is located. To query the region ID, call DescribeRegions.
InstanceType	String	No	EcsInstance	The instance type. Valid values: · RemoteEcsInstance: ECS instance · RemoteSlbInstance: SLB instance · RemoteEniInstance: ENI instance

Response parameters

Parameter	Type	Example value	Description
RequestId	String	BD5BCEE8-F62C-40C2-9AC3-89XXXXXXXXX	The ID of the request.

Examples

Request example

```
https://vpc.aliyuncs.com/?Action=UnassociateGlobalAcceleratorInstance
&GlobalAcceleratorInstanceId=ga-1sxee33xxxx
&RegionId=cn-hangzhou
&<CommonParameters>
```

Response example

XML format

```
<UnassociateGlobalAcceleratorInstanceResponse>
```

```
  < RequestId > BD5BCEE8 - F62C - 40C2 - 9AC3 - 89XXXXXXXX  X </
 RequestId >
</ Unassociat  eGlobalAcc  elerationI  nstanceRes  ponse >
```

JSON format

```
{
 " RequestId ":" BD5BCEE8 - F62C - 40C2 - 9AC3 - 89XXXXXXXX  X "
}
```

Error codes

HTTP status code	Error code	Error message	Description
404	InvalidGlobalAccelerationInstanceId.NotFound	The specified GlobalAccelerationInstanceId is not found.	The specified Global Acceleration instance does not exist.
400	IncorrectGlobalAccelerationInstanceIdStatus	Current GlobalAccelerationInstance status does not support this operation.	The specified Global Acceleration instance does not support this operation.

See common error codes

17.8 DescribeServerRelatedGlobalAccelerationInstances

Queries Global Acceleration instances attached to a backend server.

Note:

This API only supports querying dedicated-bandwidth instances.

Debug

By using API Explorer, you can easily debug APIs, automatically generate SDK code examples, and quickly search for APIs.

Request parameters

Parameter	Type	Required?	Example value	Description
`Action`	String	Yes	DescribeServerRelatedGlobalAccelerationInstances	The name of this action. Value: `DescribeServerRelatedGlobalAccelerationInstances`
`RegionId`	String	Yes	cn-hangzhou	The ID of the region where the Global Acceleration instance is located. To query the region ID, call `DescribeRegions`.
`ServerId`	String	Yes	i-12s3sdfxxxxxxxx	The ID of the backend server.
`ServerType`	String	No	EcsInstance	The type of the backend server. Valid values: · `EcsInstance` (default): ECS instance. · `SlbInstance`: SLB instance.

Response parameters

Parameter	Type	Example value	Description
GlobalAccelerationInstances	N/A	N/A	A list of Global Acceleration instances.
└GlobalAccelerationInstanceId	String	ga-t4nku6vv9xxxxxxxxx	The ID of the Global Acceleration instance.
└IpAddress	String	12.34.56.78	The public IP address of the Global Acceleration instance.

Parameter	Type	Example value	Description
└RegionId	String	ap-southeast-1	The ID of the region where the Global Acceleration instance is located.
└ServerIpAddress	String	172.24.52.234	The IP address of the backend server.
RequestId	String	A8252014-D8DE-4D85-AF35-AFEXXXXXXX	The ID of the request.

Examples

Request example

```
 https :// vpc . aliyuncs . com /? Action = DescribeSe  rverRelate
 dGlobalAcc  elerationI  nstances
& RegionId = cn - hangzhou
& ServerId = i - 12s3sdfxxx  xxxxx
&< CommonPara  meters >
```

Response example

XML format

```
< DescribeSe  rverRelate  dGlobalAcc  elerationI  nstancesRe  sponse >
  < GlobalAcce  lerationIn  stances >
    < GlobalAcce  lerationIn  stance >
      < GlobalAcce  lerationIn  stanceId > ga - t4nku6vv9x  xxxxxxxx
 </ GlobalAcce  lerationIn  stanceId >
      < IpAddress > 12 . 34 . 56 . 78 </ IpAddress >
      < RegionId > ap - southeast - 1 </ RegionId >
      < ServerIpAd  dress > 172 . 24 . 52 . 234 </ ServerIpAd  dress >
    </ GlobalAcce  lerationIn  stance >
  </ GlobalAcce  lerationIn  stances >
  < RequestId > A8252014 - D8DE - 4D85 - AF35 - AFEXXXXXXX </
 RequestId >
</ DescribeSe  rverRelate  dGlobalAcc  elerationI  nstancesRe  sponse
 >
```

JSON format

```
{
 " RequestId ":" A8252014 - D8DE - 4D85 - AF35 - AFEXXXXXXX ",
 " GlobalAcce  lerationIn  stances ":{
  " GlobalAcce  lerationIn  stance ":[
   {
    " GlobalAcce  lerationIn  stanceId ":" ga - t4nku6vv9x  xxxxxxxx
 ",
    " RegionId ":" ap - southeast - 1 ",
    " IpAddress ":" 12 . 34 . 56 . 78 ",
```

```
    " ServerIpAd  dress ":" 172 . 24 . 52 . 234 "
   }
  ]
 }
}
```

Error codes

HTTP status code	Error code	Error message	Description
404	InvalidBackendServerId.NotFound	The specified BackendServerId is not found.	The specified backend server does not exist.
400	InvalidBackendServerId.NotInVPC	The specified BackendServerId is not in VPC.	The specified backend server does not support the VPC network type.
400	InvalidBackendServerType.NotFound	The specified BackendServerType is not supported.	The specified backend server type is not supported.

See common error codes

17.9 AddGlobalAccelerationInstanceIp

Adds an EIP to a shared-bandwidth instance.

Debug

By using API Explorer, you can easily debug APIs, automatically generate SDK code examples, and quickly search for APIs.

Request parameters

Parameter	Type	Required?	Example value	Description
`Action`	String	Yes	AddGlobalAccelerationInstanceIp	The name of this action. Value: `AddGlobalAccelerationInstanceIp`
`GlobalAccelerationInstanceId`	String	Yes	ga-LXXX111	The ID of the shared-bandwidth instance.

Parameter	Type	Required?	Example value	Description
IpInstanceId	String	Yes	i-rw434rwfafxxx	The ID of the EIP. To query the EIP ID, call DescribeEipAddresses. Note: The billing method of the EIP must be Pay-As-You-Go, and the regions of the EIP and the instance must be the same.
RegionId	String	Yes	cn-hangzhou	The ID of the region where the shared-bandwidth instance is located. To query the region ID, call DescribeRegions.

Response parameters

Parameter	Type	Example value	Description
RequestId	String	01FDDD49-C4B7-4D2A-A8E5-A93915C450A6	The ID of the request.

Examples

Request example

```
https://vpc.aliyuncs.com/?Action=AddGlobalAccelerationInstanceIp
&GlobalAccelerationInstanceId=ga-LXXX111
&IpInstanceId=i-rw434rwfafxxx
&RegionId=cn-hangzhou
&<CommonParameters>
```

Response example

XML format

```
<AddGlobalAccelerationInstanceIpResponse>
```

```
  < RequestId > 01FDDD49 - C4B7 - 4D2A - A8E5 - A93915C450  A6 </
 RequestId >
</ AddGlobalA  cceleratio  nInstanceI  pResponse >
```

JSON format

```
{
 " RequestId ":" 01FDDD49 - C4B7 - 4D2A - A8E5 - A93915C450  A6 "
}
```

Error codes

HTTP status code	Type	Example value	Description
404	InvalidRegionId.NotFound	The specified RegionId does not exist in our records.	The specified region ID does not exist.
404	InvalidBandwidthPackageId.NotFound	The specified bandwidthPackageId does not exist in our records.	The specified shared-bandwidth package does not exist.

See common error codes

17.10 RemoveGlobalAccelerationInstanceIp

Removes an EIP from a shared-bandwidth instance.

Debug

By using API Explorer, you can easily debug APIs, automatically generate SDK code examples, and quickly search for APIs.

Request parameters

Parameter	Type	Required?	Example value	Description
`Action`	String	Yes	RemoveGlobalAccelerationInstanceIp	The name of this action. Value: `RemoveGlobalAccelerationInstanceIp`
`GlobalAccelerationInstanceId`	String	Yes	ga-m5ex47zwya1sejynidhms	The ID of the shared-bandwidth instance.

Parameter	Type	Required?	Example value	Description
IpInstanceId	String	Yes	eip-bp13e9i2qst4g6jzi35tc	The ID of the EIP. To query the EIP ID, call DescribeEipAddresses.
RegionId	String	Yes	cn-hangzhou	The ID of the region where the shared-bandwidth instance is located. To query the region ID, call DescribeRegions.

Response parameters

Parameter	Type	Example value	Description
RequestId	String	RemoveGlobalAccelerationInstanceIp	The ID of the request.

Examples

Request example

```
 https :// vpc . aliyuncs . com /? Action = RemoveGlob  alAccelera
 tionInstan  ceIp
& GlobalAcce  lerationIn  stanceId = ga - m5ex47zwya  1sejynidhm  s
& IpInstance  Id = eip - bp13e9i2qs  t4g6jzi35t  c
& RegionId = cn - hangzhou
&< CommonPara  meters >
```

Response example

XML format

```
{{
    " RequestId ": " 01FDDD49 - C4B7 - 4D2A - A8E5 - A93915C450  A6 "
}
```

JSON format

```
{
 " RequestId ":" 01FDDD49 - C4B7 - 4D2A - A8E5 - A93915C450  A6 "
```

```
}
```

Error codes

HTTP status code	Error code	Error message	Description
404	InvalidRegionId.NotFound	The specified RegionId does not exist in our records.	The specified region ID does not exist.
404	InvalidBandwidthPackageId.NotFound	The specified bandwidthPackageId does not exist in our records.	The specified shared bandwidth package does not exist.

See common error codes

18 Internet Shared Bandwidth

18.1 CreateCommonBandwidthPackage

Creates an Internet Shared Bandwidth instance.

Before you call this API action, make sure that you fully understand the billing method of Internet Shared Bandwidth instances.

Debug

Use OpenAPI Explorer to perform debug operations and generate SDK code examples.

Request parameters

Parameter	Type	Required?	Example value	Description
`Action`	String	Yes	CreateCommonBandwidthPackage	The name of this action. Value: CreateCommonBandwidthPackage.
`Bandwidth`	Integer	Yes	5	The peak bandwidth of the Internet Shared Bandwidth instance. Unit: Mbit/s.
`RegionId`	String	Yes	cn-hangzhou	The region to which the Internet Shared Bandwidth instance belongs. To query the region ID, call DescribeRegions.

Parameter	Type	Required?	Example value	Description
`ClientToken`	String	No	02fb3da4-130e-11e9-8e44-001****	The client token that guarantees the idempotence of the request. The value of this parameter is generated by the client. The value must be unique among different requests and must be 1 to 64 ASCII characters in length.
`Description`	String	No	abc	The description of the Internet Shared Bandwidth instance. The description must be 2 to 256 characters in length. It must start with a letter, but cannot start with `http://` or `https://`.
`InternetChargeType`	String	No	PayByTraffic	The billing method of the Internet Shared Bandwidth instance. Value: PayByTraffic.
`Name`	String	No	test123	The name of the Internet Shared Bandwidth instance. The name must be 2 to 128 characters in length and can contain letters, numbers, periods (.), underscores (_), and hyphens (-). The name must start with a letter, but cannot start with `http://` or `https://`.

Parameter	Type	Required?	Example value	Description
`Ratio`	Integer	No	20	The minimum consumption ratio of the Internet Shared Bandwidth instance. Value: 20. Note: This parameter is only supported by the China site.
`ResourceGroupId`	String	No	rg-acfmxazdjdhd****	The ID of the resource group.

Response parameters

Parameter	Type	Example value	Description
BandwidthPackageId	String	cbwp-bp1vevu8h3iehhd****	The ID of the Internet Shared Bandwidth instance.
RequestId	String	FF39F653-033E-4CD9-9EDF-3CCA5A71FBC3	The ID of the request.
ResourceGroupId	String	rsFAF424324-03****	The ID of the resource group.

Examples

Request example

```
http(s)://[Endpoint]/?Action=CreateCommonBandwidthPackage
&Bandwidth=5
&RegionId=cn-hangzhou
&<CommonParameters>
```

Response example

`XML` format

```
<CreateCommonBandwidthPackageResponse>
    <BandwidthPackageId>cbwp-bp1vevu8h3iehdfradfra****</BandwidthPackageId>
    <RequestId>FF39F653-033E-4CD9-9EDF-3CCA5A71FBC3</RequestId>
```

```
</ CreateComm  onBandwidt  hPackageRe  sponse >
```

`JSON` format

```
{
 " BandwidthP  ackageId ":" cbwp - bp1vevu8h3  iehdfradfr  a ****",
 " RequestId ":" FF39F653 - 033E - 4CD9 - 9EDF - 3CCA5A71FB  C3 "
}
```

Errors

HTTP status code	Error code	Error message	Description
404	InvalidRegionId.NotFound	The specified RegionId does not exist in our records.	The specified RegionId does not exist.
404	InvalidVpcId.NotFound	Specified value of VpcId is not found in our record.	The specified VPC does not exist.
400	MissingParameter	Miss mandatory parameter.	One or more mandatory parameters are missing.
404	InvalidZoneId.NotFound	Specified value of ZoneId is not exists.	The specified zone does not exist.
400	InvalidParameter.Name.Malformed	The specified Name is not valid.	The specified name is invalid.
400	InvalidParameter.Description.Malformed	The specified Description is not valid.	The description is invalid.

For a list of error codes, visit the API Error Center.

18.2 DescribeCommonBandwidthPackages

Queries Internet Shared Bandwidth instances in a region.

Debug

Use OpenAPI Explorer to perform debug operations and generate SDK code examples.

Request parameters

Parameter	Type	Required?	Example value	Description
Action	String	Yes	DescribeCommonBandwidthPackages	The name of this action. Value: DescribeCommonBandwidthPackages
RegionId	String	Yes	cn-hangzhou	The ID of the region to which the Internet Shared Bandwidth instance belongs. To query the region ID, call DescribeRegions.
BandwidthPackageId	String	No	cbwp-2ze2ic1xd2qeqk145pn4u	Optional. The ID of the Internet Shared Bandwidth instance.
IncludeReservationData	Boolean	No	false	Optional. Indicates whether to return orders that have not taken effect. Default value: false
Name	String	No	test123	Optional. The name of the Internet Shared Bandwidth instance.
PageNumber	Integer	No	1	Optional. The page number. Default value: 1
PageSize	Integer	No	10	Optional. The number of entries per page in the case of a paged query result. Maximum value: 50. Default value: 10.
ResourceGroupId	String	No	rg-acfmxazb4ph6aiy	Optional. The ID of the resource group.

Response parameters

Parameter	Type	Example value	Description
CommonBandwidthPackages			The details of the Internet Shared Bandwidth instance.
BandwidthPackageId	String	cbwp-bp1t3sm1ffzmshdkixabo	The ID of the Internet Shared Bandwidth instance.
Name	String	abc	The name of the Internet Shared Bandwidth instance.
Description	String	none	The description of the Internet Shared Bandwidth instance.
Bandwidth	String	20	The peak bandwidth of the Internet Shared Bandwidth instance.
InternetChargeType	String	PayByBandwidth	The billing method of the Internet Shared Bandwidth instance. · PayBy95: billed by using the 95th percentile method · PayByBandwidth: billed according to the bandwidth consumed
Ratio	Integer	100	The minimum consumption ratio of the Internet Shared Bandwidth instance.
RegionId	String	cn-hangzhou	The ID of the region to which the Internet Shared Bandwidth instance belongs.
CreationTime	String	2017-06-28T06:39:20Z	The time when the Internet Shared Bandwidth instance was created.

Parameter	Type	Example value	Description
InstanceChargeType	String	PostPaid	The billing method of the Internet Shared Bandwidth instance.
BusinessStatus	String	Available	The status of the Internet Shared Bandwidth instance.
PublicIpAddresses			The details of the public IP addresses added to the Internet Shared Bandwidth instance.
IpAddress	String	116.62.129.250	The public IP address.
AllocationId	String	eip-bp13e9i2qst4g6jzi35tc	The ID of the instance associated with the public IP address.
ExpiredTime	String	2019-01-15T03:08:37Z	The time when the Internet Shared Bandwidth instance expires.
HasReservationData	String	false	Indicates whether orders that have not taken effect exist. · false: No orders that have not taken effect exist. · true: Orders that have not taken effect exist.
ISP	String	BGP	The service provider. Generally, BGP lines are used.
ReservationActiveTime	String	2018-08-30T16:00Z	The time when the renewal takes effect.
ReservationBandwidth	String	10	The bandwidth value after the configuration change.
ReservationInternetChargeType	String	PayByBandwidth	The billing method after the configuration change.

Parameter	Type	Example value	Description
ReservationOrderType	String	RENEWCHANGE	The type of the configuration change. · RENEWCHANGE: Indicates a renewal. · TEMP_UPGRADE: Indicates a temporary upgrade. · UPGRADE: Indicates a configuration upgrade.
ResourceGroupId	String	rg-acfmxazb4ph6aiy	The ID of the resource group.
Status	String	Available	The status of the Internet Shared Bandwidth instance.
TotalCount	Integer	1	The total number of entries.
PageNumber	Integer	1	The current page number.
PageSize	Integer	10	The number of entries per page.
RequestId	String	20E6FD1C-7321-4DAD-BDFD-EC8769E4AA33	The ID of the request.

Examples

Request example

```
 https :// vpc . aliyuncs . com /? Action = DescribeCo  mmonBandwi
 dthPackage  s
& RegionId = cn - hangzhou
&< CommonPara  meters >
```

Response example

`XML` format

```
< DescribeCo  mmonBandwi  dthPackage  sResponse >
      < PageNumber > 1 </ PageNumber >
      < TotalCount > 1 </ TotalCount >
      < PageSize > 10 </ PageSize >
      < RequestId > 20E6FD1C - 7321 - 4DAD - BDFD - EC8769E4AA  33 </
 RequestId >
      < CommonBand  widthPacka  ges >
```

```
            < CommonBand  widthPacka  ge >
                  < Descriptio  n ></ Descriptio  n >
                  < BandwidthP  ackageId > cbwp - bp1t3sm1ff
 zmshdkixab  o </ BandwidthP  ackageId >
                  < ZoneId > cn - hangzhou - d </ ZoneId >
                  < InternetCh  argeType > PayByBandw  idth </
 InternetCh  argeType >
                  < Name > abc </ Name >
                  < CreationTi  me > 2017 - 06 - 28T06 : 39 : 20Z </
 CreationTi  me >
                  < Status > Available </ Status >
                  < BandwidthP  ackageId > cbwp - bp1vevu8h3
 ieh5xkcdhd  y </ BandwidthP  ackageId >
                  < BusinessSt  atus > Normal </ BusinessSt  atus >
                  < RegionId > cn - hangzhou </ RegionId >
                  < Ratio > 100 </ Ratio >
                  < InstanceCh  argeType > PostPaid </ InstanceCh
 argeType >
                  < PublicIpAd  dresses >
                        < PublicIpAd  dresse >
                              < IpAddress > 116 . 62 . 129 . 250 </
 IpAddress >
                              < Allocation  Id > eip - bp13e9i2qs
 t4g6jzi35t  c </ Allocation  Id >
                        </ PublicIpAd  dresse >
                  </ PublicIpAd  dresses >
                  < Bandwidth > 20 </ Bandwidth >
            </ CommonBand  widthPacka  ge >
      </ CommonBand  widthPacka  ges >
</ DescribeCo  mmonBandwi  dthPackage  sResponse >
```

`JSON` format

```
{
 " DescribeCo  mmonBandwi  dthPackage  sResponse ":{
  " PageNumber ":" 1 ",
  " TotalCount ":" 1 ",
  " PageSize ":" 10 ",
  " RequestId ":" 20E6FD1C - 7321 - 4DAD - BDFD - EC8769E4AA  33 ",
  " CommonBand  widthPacka  ges ":{
   " CommonBand  widthPacka  ge ":{
    " CreationTi  me ":" 2017 - 06 - 28T06 : 39 : 20Z ",
    " Name ":" abc ",
    " Status ":" Available ",
    " BandwidthP  ackageId ":" cbwp - bp1vevu8h3  ieh5xkcdhd  y ",
    " BusinessSt  atus ":" Normal ",
    " Ratio ":" 100 ",
    " RegionId ":" cn - hangzhou ",
    " ZoneId ":" cn - hangzhou - d ",
    " InstanceCh  argeType ":" PostPaid ",
    " InternetCh  argeType ":" PayByBandw  idth ",
    " PublicIpAd  dresses ":{
     " PublicIpAd  dresse ":{
      " IpAddress ":" 116 . 62 . 129 . 250 ",
      " Allocation  Id ":" eip - bp13e9i2qs  t4g6jzi35t  c "
     }
    },
    " Bandwidth ":" 20 "
   }
  }
 }
```

```
}
```

Errors

HTTP status code	Error code	Error message	Description
404	InvalidRegionId.NotFound	The specified RegionId does not exist in our records.	The specified region ID does not exist.

For a list of error codes, visit the API Error Center.

18.3 ModifyCommonBandwidthPackageAttribute

Modifies the name and description of an Internet Shared Bandwidth instance.

Debug

By using API Explorer, you can easily debug APIs, automatically generate SDK code examples, and quickly search for APIs.

Request parameters

Parameter	Type	Required?	Example value	Description
`Action`	String	Yes	ModifyCommonBandwidthPackageAttribute	The name of this action. Value: `ModifyCommonBandwidthPackageAttribute`
`BandwidthPackageId`	String	Yes	cbwp-2ze2ic1xd2qeqk145pn4u	The ID of the Internet Shared Bandwidth instance.
`RegionId`	String	Yes	cn-hangzhou	The ID of the region where the Internet Shared Bandwidth instance is located. To query the region ID, call `DescribeRegions`.

Parameter	Type	Required?	Example value	Description
`Description`	String	No	0Description	The description of the Internet Shared Bandwidth instance. The description must be 2 to 256 characters in length. It must start with a letter, but cannot start with `http://` or `https://`.
`Name`	String	No	test123	The name of the Internet Shared Bandwidth instance. The name must be 2 to 128 characters in length and can contain letters, numbers, periods (.), underscores (_), or hyphens (-). The name must start with a letter, but cannot start with `http://` or `https://`.

Response parameters

Parameter	Type	Example value	Description
`RequestId`	String	B450CAD8-50BC-4506-ADA7-35C6CE63E96B	The ID of the request.

Examples

Request example

```
https://vpc.aliyuncs.com/?BandwidthPackageId=cbwp-2ze2ic1xd2qeqk145pn4u
&RegionId=cn-hangzhou
&<CommonParameters>
```

Response example

XML format

```
< ModifyComm  onBandwidt  hPackageAt  tributeRes  ponse >
  < RequestId > B450CAD8 - 50BC - 4506 - ADA7 - 35C6CE63E9  6B </
 RequestId >
</ ModifyComm  onBandwidt  hPackageAt  tributeRes  ponse >
```

JSON format

```
{
 " RequestId ":" B450CAD8 - 50BC - 4506 - ADA7 - 35C6CE63E9  6B6 "
}
```

Error codes

HTTP status code	Error code	Error message	Description
404	InvalidRegionId.NotFound	The specified RegionId does not exist in our records.	The specified region ID does not exist.
404	InvalidBandwidthPackageId.NotFound	The specified bandwidthPackageId does not exist in our records.	The specified Internet Shared Bandwidth does not exist.
400	InvalidParameter.Name.Malformed	The specified Name is not valid.	The name is invalid.
400	InvalidParameter.Description.Malformed	The specified Description is not valid.	The description is invalid.

See common error codes

18.4 AddCommonBandwidthPackageIp

Adds an EIP to an Internet Shared Bandwidth instance.

Note the following before you call this action:

- Only Pay-As-You-Go EIPs can be added.
- The EIP and the Internet Shared Bandwidth instance must be in the same region.

Debug

Use API Explorer to perform debug operation and generate code examples.

Request parameters

Parameter	Type	Required?	Example value	Description
`Action`	String	Yes	AddCommonBandwidthPackageIp	The name of this action. Value: AddCommonBandwidthPackageIp.
`BandwidthPackageId`	String	Yes	cbwp-2ze2ic1xd2qeqxxxxxxxx	The ID of the Internet Shared Bandwidth instance.
`IpInstanceId`	String	Yes	eip-2zeerraiwb7uxxxxxxxx	The ID of the EIP instance. To query the ID of the EIP instance, call DescribeEipAddresses.
`RegionId`	String	Yes	cn-hangzhou	The ID of the region where the Internet Shared Bandwidth instance is located. To query the region ID, call DescribeRegions.

Response parameters

Parameter	Type	Example value	Description
RequestId	String	EC0A01C5-62E2-4E50-B558-CDAA09094B96	The ID of the request.

Examples

Request example

```
https://vpc.aliyuncs.com/?Action=AddCommonBandwidthPackageIp
&BandwidthPackageId=cbwp-2ze2ic1xd2qeqxxxxxxx
```

```
& IpInstance  Id = eip - 2zeerraiwb  7ujxxxxxxx  x
& RegionId = cn - hangzhou
&< CommonPara  meters >
```

Response example

`XML` format

```
< AddCommonB  andwidthPa  ckageIpRes  ponse >
  < RequestId > 01FDDD49 - C4B7 - 4D2A - A8E5 - A93915C450  A6 </
 RequestId >
</ AddCommonB  andwidthPa  ckageIpRes  ponse >
```

`JSON` format

```
{
 " RequestId ": " 01FDDD49 - C4B7 - 4D2A - A8E5 - A93915C450  A6 "
}
```

Error codes

HTTP status code	Error code	Error message	Description
404	InvalidRegionId.NotFound	The specified RegionId does not exist in our records.	The specified region ID does not exist.
404	InvalidBandwidthPackageId.NotFound	The specified bandwidthPackageId does not exist in our records.	The specified Internet Shared Bandwidth does not exist.

See common error codes

18.5 DeleteCommonBandwidthPackage

Deletes an Internet Shared Bandwidth instance.

Debug

By using API Explorer, you can easily debug APIs, automatically generate SDK code examples, and quickly search for APIs.

Request parameters

Parameter	Type	Required?	Example value	Description
`Action`	String	Yes	DeleteCommonBandwidthPackage	The name of this action. Value: `DeleteCommonBandwidthPackage`
`BandwidthPackageId`	String	Yes	cbwp-2ze2ic1xd2qeqk145pn4u	The ID of the Internet Shared Bandwidth instance.
`RegionId`	String	Yes	cn-hangzhou	The ID of the region where the Internet Shared Bandwidth instance is located. To query the region ID, call `DescribeRegions`.
`Force`	Boolean	No	false	Indicates whether to forcibly delete the Internet Shared Bandwidth instance. Valid values: · `false` : Does not forcibly delete the Internet Shared Bandwidth instance if it contains EIP. · `true` : Forcibly remove all EIPs in the Internet Shared Bandwidth instance and then delete the Internet Shared Bandwidth instance.

Response parameters

Parameter	Type	Example value	Description
`RequestId`	String	B400EF57-60E3-4D61-B8FB-7FA8F72DF5A6	The ID of the request.

Examples

Request example

```
 https :// vpc . aliyuncs . com /? Action = DeleteComm  onBandwidt
 hPackage
& BandwidthP  ackageId = cbwp - 2ze2ic1xd2  qeqk145pn4  u
& RegionId = cn - hangzhou
&< CommonPara  meters >
```

Response example

XML format

```
< DeleteComm  onBandwidt  hPackageRe  sponse >
  < RequestId > B400EF57 - 60E3 - 4D61 - B8FB - 7FA8F72DF5  A6 </
 RequestId >
</ DeleteComm  onBandwidt  hPackageRe  sponse >
```

JSON format

```
{
 " RequestId ":" B400EF57 - 60E3 - 4D61 - B8FB - 7FA8F72DF5  A6 "
}
```

Error codes

HTTP status code	Error code	Error message	Description
404	InvalidRegionId.NotFound	The specified RegionId does not exist in our records.	The specified region ID does not exist.

See common error codes

18.6 ModifyCommonBandwidthPackageSpec

Modifies the peak bandwidth of an Internet Shared Bandwidth instance.

Debug

By using API Explorer, you can easily debug APIs, automatically generate SDK code examples, and quickly search for APIs.

Request parameters

Parameter	Type	Required?	Example value	Description
`Action`	String	Yes	ModifyCommonBandwidthPackageSpec	The name of the action. Value: `ModifyCommonBandwidthPackageSpec`
`Bandwidth`	Integer	Yes	100	The peak bandwidth in Mbps of the Internet Shared Bandwidth instance.
`BandwidthPackageId`	String	Yes	cbwp-2ze2ic1xd2qeqk145pn4u	The ID of the Internet Shared Bandwidth instance.
`RegionId`	String	Yes	cn-hangzhou	The ID of the region where the Internet Shared Bandwidth instance is located. To query the region ID, call `DescribeRegions`.

Response parameters

Parameter	Type	Example value	Description
`RequestId`	String	7F129000-F929-4AF5-BE8D-BAE434C795306	The ID of the request.

Examples

Request example

```
https://vpc.aliyuncs.com/?Action=ModifyCommonBandwidthPackageSpec
&Bandwidth=100
&BandwidthPackageId=cbwp-2ze2ic1xd2qeqk145pn4u
&RegionId=cn-hangzhou
&<CommonParameters>
```

Response example

XML format

```
< ModifyComm  onBandwidt  hPackageSp  ecResponse >
  < RequestId > 7F129000 - F929 - 4AF5 - BE8D - BAE434C795  30 </
 RequestId >
</ ModifyComm  onBandwidt  hPackageSp  ecResponse >
```

JSON format

```
{
 " RequestId ":" 7F129000 - F929 - 4AF5 - BE8D - BAE434C795  306 "
}
```

Error codes

HTTP status code	Error code	Error message	Description
404	InvalidRegionId.NotFound	The specified RegionId does not exist in our records.	The specified region ID does not exist.
404	InvalidBandwidth.ValueNotSupported	The specified value of Bandwidth not supported.	The specified peak bandwidth value is not supported.
404	BandwidthPackage.FinancialLocked	The specified BandwidthPackage has been Financail Lock.	The specified Internet Shared Bandwidth is locked due to an insufficient balance.

See common error codes

18.7 RemoveCommonBandwidthPackageIp

Removes an EIP from an Internet Shared Bandwidth instance.

Debug

By using API Explorer, you can easily debug APIs, automatically generate SDK code examples, and quickly search for APIs.

Request parameters

Parameter	Type	Required?	Example value	Description
`Action`	String	Yes	RemoveCommonBandwidthPackageIp	The name of this action. Value: `RemoveCommonBandwidthPackageIp`
`BandwidthPackageId`	String	Yes	cbwp-2ze2ic1xd2qeqk145pn4u	The ID of the Internet Shared Bandwidth instance.
`IpInstanceId`	String	No	eip-2zeerraiwb7uj6i0d0fo3	The ID of the EIP instance. To query the ID of the EIP instance, call `DescribeEipAddresses`.
`RegionId`	String	Yes	cn-hangzhou	The ID of the region where the Internet Shared Bandwidth instance is located. To query the region ID, call `DescribeRegions`.

Response parameters

Parameter	Type	Example value	Description
`RequestId`	String	0876DAB2-6A86-479B-96BC-C5A2458568D2	The ID of the request.

Examples

Request example

```
https://vpc.aliyuncs.com/?Action=RemoveCommonBandwidthPackageIp
&BandwidthPackageId=cbwp-2ze2ic1xd2qeqk145pn4u
&IpInstanceId=eip-2zeerraiwb7uj6i0d0fo3
&RegionId=cn-hangzhou
```

```
&< CommonPara  meters >
```

Response example

XML format

```
< RemoveComm  onBandwidt  hPackageIp  Response >
  < RequestId > 0876DAB2 - 6A86 - 479B - 96BC - C5A2458568  D2 </
 RequestId >
</ RemoveComm  onBandwidt  hPackageIp  Response >
```

JSON format

```
{
 " RequestId ":" 0876DAB2 - 6A86 - 479B - 96BC - C5A2458568  D2 "
}
```

Error codes

HTTP status code	Error code	Error message	Description
404	InvalidRegionId.NotFound	The specified RegionId does not exist in our records.	The specified region ID does not exist.
404	InvalidBandwidthPackageId.NotFound	The specified bandwidthPackageId does not exist in our records.	The specified Internet Shared Bandwidth instance does not exist.

See common error codes

18.8 CancelCommonBandwidthPackageIpBandwidth

Cancels the bandwidth limit that is configured for an EIP added to an Internet Shared Bandwidth.

After you cancel the bandwidth limit, the peak bandwidth of the EIP is the same as that of the Internet Shared Bandwidth.

Debug

Use OpenAPI Explorer to perform debug operations and generate code examples.

Request parameters

Parameter	Type	Required?	Example value	Description
`Action`	String	Yes	CancelCommonBandwidthPackageIpBandwidth	The name of this action. Value: CancelCommonBandwidthPackageIpBandwidth.
`BandwidthPackageId`	String	Yes	cbwp-bp13d0m4e2qv8xxxxxxxx	The ID of the Internet Shared Bandwidth instance.
`EipId`	String	Yes	eip-2zewysoansu0sxxxxxxxx	The ID of the EIP instance added to the Internet Shared Bandwidth.
`RegionId`	String	Yes	cn-hangzhou	The ID of the region to which the Internet Shared Bandwidth belongs. To query the region ID, call DescribeRegions.

Response parameters

Parameter	Type	Example value	Description
RequestId	String	63D187BF-A30A-4DD6-B68D-FF182C96D8A2	The ID of the request.

Examples

Request example

```
https://vpc.aliyuncs.com/?Action=CancelCommonBandwidthPackageIpBandwidth
&BandwidthPackageId=cbwp-bp13d0m4e2qv8xxxxxxx
&EipId=eip-2zewysoansu0sxxxxxxx
&RegionId=cn-hangzhou
&<CommonParameters>
```

Response example

`XML` format

```
< CancelComm  onBandwidt  hPackageIp  Bandwidth >
  < RequestId > 63D187BF - A30A - 4DD6 - B68D - FF182C96D8  A2 </
 RequestId >
</ CancelComm  onBandwidt  hPackageIp  Bandwidth >
```

`JSON` format

```
{
 " RequestId ":" 63D187BF - A30A - 4DD6 - B68D - FF182C96D8  A2 "
}
```

Error codes

HTTP status code	Error code	Error message	Description
404	InvalidRegionId.NotFound	The specified RegionId does not exist in our records.	The specified region ID does not exist.

See common error codes

18.9 ModifyCommonBandwidthPackageIpBandwidth

Configures the bandwidth limit for an EIP added to an Internet Shared Bandwidth.

After this function is used, the bandwidth limits of EIPs added to an Internet Shared Bandwidth can be flexibly allocated.

For example, if two EIPs are added to an Internet Shared Bandwidth of 800 Mbps, you can set the bandwidth limit of the first EIP to 500 Mbps, and set the bandwidth limit of the other EIP to 400 Mbps. After the configuration is complete, the available bandwidth of the first EIP does not exceed 500 Mbps, and the available bandwidth of the second EIP does not exceed 400 Mbps.

Debug

Use OpenAPI Explorer to perform debug operations and generate code examples.

Request parameters

Parameter	Type	Required?	Example value	Description
`Action`	String	Yes	ModifyCommonBandwidthPackageIpBandwidth	The name of this action. Value: ModifyCommonBandwidthPackageIpBandwidth.
`Bandwidth`	String	Yes	500	The maximum bandwidth that can be allocated from the Internet Shared Bandwidth. Unit: Mbps.
`BandwidthPackageId`	String	Yes	cbwp-2zep6hw5d6y8exxxxxxxx	The ID of the Internet Shared Bandwidth instance.
`EipId`	String	Yes	eip-2zewysoansu0sxxxxxxxx	The ID of the EIP added to the Internet Shared Bandwidth.
`RegionId`	String	Yes	cn-hangzhou	The ID of the region to which the Internet Shared Bandwidth belongs. To query the region ID, call DescribeRegions.

Response parameters

Parameter	Type	Example value	Description
RequestId	String	63D187BF-A30A-4DD6-B68D-FF182C96D8A2	The ID of the request.

Examples

Request example

```
https://vpc.aliyuncs.com/?Action=ModifyCommonBandwidthPackageIpBandwidth
&Bandwidth=500
&BandwidthPackageId=cbwp-2zep6hw5d6y8exxxxxxx
&EipId=eip-2zewysoansu0sxxxxxxx
```

```
&< CommonPara  meters >
```

Response example

`XML` format

```
< ModifyComm  onBandwidt  hPackageIp  Bandwidth >
  < RequestId > 63D187BF - A30A - 4DD6 - B68D - FF182C96D8  A2 </
 RequestId >
</ ModifyComm  onBandwidt  hPackageIp  Bandwidth >
```

`JSON` format

```
{
 " RequestId ":" 63D187BF - A30A - 4DD6 - B68D - FF182C96D8  A2 "
}
```

Error codes

HTTP status code	Error code	Error message	Description
404	InvalidRegionId.NotFound	The specified RegionId does not exist in our records.	The specified region ID does not exist.

See common error codes

19 EIP

19.1 AllocateEipAddress

Creates an Elastic IP Address (EIP).

Issues to note

Before you call this API, make sure that you have known the billing methods and prices of EIPs. For more information, see Billing method.

After you call this API, an EIP in the Available state is allocated in the specified region. EIP supports ICMP, TCP, and UDP protocols, but does not support the IGMP and SCTP protocols.

Debug

Use OpenAPI Explorer to perform debug operations and generate SDK code examples.

Request parameters

Parameter	Type	Required?	Example value	Description
`Action`	String	Yes	AllocateEipAddress	The name of this action. Value: AllocateEipAddress
`RegionId`	String	Yes	cn-hangzhou	The ID of the region to which the EIP belongs. To query the region ID, call DescribeRegions.
`AutoPay`	Boolean	No	false	Indicates whether to pay automatically. Leave this parameter blank.
`Bandwidth`	String	No	5	Optional. The peak bandwidth of the EIP. Unit: Mbit/s. Default value: 5

Parameter	Type	Required?	Example value	Description
`ClientToken`	String	No	02fb3da4-130e-11e9-8e44-001****	Optional. The client token used to guarantee the idempotence of the request. The value of this parameter is generated by the client. The value is unique among different requests and 1 to 64 ASCII characters in length.
`ISP`	String	No	BGP	Optional. The type of the line. Default value: BGP. · If you have enabled a single-line bandwidth whitelist, you can set the ISP parameter to ChinaTelecom, ChinaUnicom or ChinaMobile to enable a single-line EIP provided by China Telecom, China Unicom, and China Mobile respectively. · This parameter is required if you are a financial cloud user and select the Hangzhou region. Value: BGP_FinanceCloud
`InstanceChargeType`	String	No	PostPaid	The payment method of the EIP. Value: PostPaid (Pay-As-You-Go). The value of the InternetChargeType parameter must be PayByTraffic. For more information about the Pay-As-You-Go billing method, see Pay-As-You-Go.

Parameter	Type	Required?	Example value	Description
`InternetChargeType`	String	No	PayByTraffic	Optional. The billing method of the EIP. Value: PayByTraffic, which means traffic-based billing. For more information, see Traffic-based billing.
`Netmode`	String	No	Public	Optional. The network type. Default value: Public
`Period`	Integer	No	1	The purchase period. Leave this parameter blank.
`PricingCycle`	String	No	Month	The billing cycle of Subscription. Leave this parameter blank.
`ResourceGroupId`	String	No	rg-acfmxazffggds****	Optional. The ID of the enterprise resource group.

Response parameters

Parameter	Type	Example value	Description
EipAddress	String	12.xx.xx.78	The created EIP.
AllocationId	String	eip-25877c70gddh****	The ID of the EIP.
OrderId	Long	10	The order number, which is returned only when InstanceChargeType is set to PrePaid.
RequestId	String	4EC47282-1B74-4534-BD0E-403F3EE64CAF	The request ID.
ResourceGroupId	String	rg-acfmxazfdgdg****	The ID of the enterprise resource group.

Examples

Request example

```
 http ( s )://[ Endpoint ]/?  Action = AllocateEi  pAddress
& RegionId = cn - hangzhou
&< CommonPara  meters >
```

Response examples

`XML` format

```
< AllocateEi  pAddressRe  sponse >
      < Allocation  Id > eip - 25877c70gf  dkh ****</ Allocation  Id >
      < EipAddress > 123 . xx . xx . 206 </ EipAddress >
      < RequestId > B6B9F518 - 60F8 - 4D81 - 9242 - 1207B35675  4D </
 RequestId >
</ AllocateEi  pAddressRe  sponse >
```

`JSON` format

```
{
 " RequestId ":" B6B9F518 - 60F8 - 4D81 - 9242 - 1207B35675  4D ",
 " EipAddress ":" 123 . xx . xx . 206 ",
 " Allocation  Id ":" eip - 25877c70gf  dkh ****"
}
```

Errors

HTTP status code	Error code	Error message	Description
403	Forbbiden	User not authorized to operate on the specified resource.	You are not authorized to operate on this resource.
400	QuotaExceeded. Eip	Elastic IP address quota exceeded	The quota of EIPs has been reached. To increase the quota, open a ticket . Alternatively, we recommend that you use NAT Gateway to obtain more IP addresses.
400	InvalidPar ameter	Specified value of " InternetChargeType" is not valid	The value of the InternetChargeType parameter is invalid.
400	InvalidPar ameter	Specified value of " Bandwidth" is not valid.	The specified bandwidth value is invalid.

HTTP status code	Error code	Error message	Description
400	QuotaExceeded.Eip	Elastic IP address quota exceeded.	The quota of EIPs has been reached. To increase the quota, open a ticket. Alternatively, we recommend that you use NAT Gateway to obtain more IP addresses.
400	ReserveIpFail	Reserve eip failed.	The operation to reserve the EIP failed.
400	InvalidRegion.NotSupport	The specified region does not support.	The specified region does not support this operation.

For a list of error codes, visit the API Error Center.

19.2 AssociateEipAddress

Associates an EIP with a cloud product instance in the same region.

Note the following when you call this action:

- You can associate an EIP with a VPC ECS instance, a VPC SLB instance, or a NAT Gateway in the same region.
- To associate an EIP with a NAT Gateway, make sure that there was no NAT bandwidth package under your account before January 26, 2018. Otherwise open a ticket to associate the EIP with the NAT Gateway.

Debug

By using API Explorer, you can easily debug APIs, automatically generate SDK code examples, and quickly search for APIs.

Request parameters

Parameter	Type	Required?	Example value	Description
`Action`	String	Yes	AssociateEipAddress	The name of this action. Value: AssociateEipAddress.

Parameter	Type	Required?	Example value	Description
`AllocationId`	String	Yes	eip-2zeerraiwb7ujxxxxxxxx	The ID of the EIP.
`InstanceId`	String	Yes	i-2zebb08phyczxxxxxxxx	The ID of the instance to associate.
`RegionId`	String	Yes	cn-hangzhou	The ID of the region to which the EIP belongs.
`InstanceRegionId`	String	No	cn-hangzhou	The ID of the region to which the associated instance belongs.
`InstanceType`	String	No	EcsInstance	The type of the cloud product instance to associate. Valid values: Nat|SlbInstance|EcsInstance|NetworkInterface.
`Mode`	String	No	NAT	The mode of associating. Valid values: NAT | MULTI_BINDED.
`PrivateIpAddress`	String	No	192.xx.xx.4	An IP address in the CIDR block of the VSwitch. If you leave the option empty, the system allocates a private IP address according to the VPC ID and VSwitch ID.

Response parameters

Parameter	Type	Example value	Description
RequestId	String	C0FD0EED-F90D-4479-803D-DD62335357E5	The ID of the request.

Examples

Request example

```
 http ( s ):// vpc . aliyuncs . com /?  Action = AssociateE
 ipAddress
& Allocation  Id = eip - 2zeerraiwb  7ujxxxxxxx  x
& InstanceId = i - 2zebb08phy  czxxxxxxxx
&< CommonPara  meters >
```

Response example

`XML` format

```
< AssociateE  ipAddressR  esponse >
  < RequestId > 0ED8D006 - F706 - 4D23 - 88ED - E11ED28DCA  C0 </
 RequestId >
</ AssociateE  ipAddressR  esponse >
```

`JSON` format

```
{
 " RequestId ":" 0ED8D006 - F706 - 4D23 - 88ED - E11ED28DCA  C0 "
}
```

Error codes

HTTP status code	Error code	Error message	Description
400	InvalidAssociation.Duplicated	Specified instance already is associated.	This instance is already associated with an EIP or a Global Acceleration instance. You must delete this instance before you can associate it with a different EIP or Global Acceleration instance.
400	OperationDenied	Specified instance is not in VPC.	The specified instance does not exist in the VPC.
400	InvalidParameter.Mismatch	Specified elastic IP address and ECS instance are not in the same region.	The specified EIP and ECS instance are not in the same region.

HTTP status code	Error code	Error message	Description
400	IncorrectEipStatus	Current elastic IP status does not support this operation	The current status of the specified EIP address does not support this operation.
404	InvalidInstanId.NotFound	Specified instance does not exist.	The specified instance does not exist.
400	IncorrectInstanceStatus	Current instance status does not support this operation.	The current instance status does not support this operation.
400	InvalidInstanceType.ValueNotSupported	The specified value of InstanceType is not supported.	The value of the InstanceType parameter is invalid.
400	IncorrectHaVipStatus	HaVip can be operated by this action only when it's status is Available or InUse.	You can perform this operation only if the HAVIP is the Available or InUse state.
400	InvalidParameter	The specified parameter is not valid.	The specified parameter value is invalid.
400	OperationDenied	Eip of default vpc not allow this operation	The EIP of the default VPC does not support this operation.
400	Forbbiden	The eip instance owener error	You need to be authorized to call the EIP. Please check that you have the appropriate permissions and try again.
400	InvalidBindingStatus	The eip binding status invalid.	The associating status of the EIP is invalid.
400	BIND_INSTANCE_HAVE_PORTMAP_OR_BIND_EIP	The instance may have portMap or already bind eip.	You must delete the existing port forwarding rule associated with the ECS instance first.
400	BIND_INSTANCE_OWENER_ERROR	Cannot operate the eip.	You cannot operate this EIP.

HTTP status code	Error code	Error message	Description
404	InvalidAllocationId.NotFound	Specified allocation ID is not found	The specified public IP address does not exist.
400	InvalidParams.NotFound	instance not found	The specified instance does not exist.

See common error codes

19.3 ModifyEipAddressAttribute

Modifies the name, description, and peak bandwidth of an Elastic IP Address (EIP).

Debug

Use OpenAPI Explorer to perform debug operations and generate SDK code examples.

Request parameters

Parameter	Type	Required?	Example value	Description
`Action`	String	Yes	ModifyEipAddressAttribute	The name of this action. Value: ModifyEipAddressAttribute
`AllocationId`	String	Yes	eip-2zeerraiwb7uj6i0d0fo3	The instance ID of the EIP.
`RegionId`	String	Yes	cn-hangzhou	The region ID of the VPC to which the route table belongs.
`Bandwidth`	String	No	100	Optional. The peak bandwidth of the EIP. Unit: Mbit/s

Parameter	Type	Required?	Example value	Description
`Description`	String	No	Description	Optional. The description of the EIP. The description must be 2 to 256 characters in length. It must start with a letter. It cannot start with `http://` or `https://`.
`Name`	String	No	Test123	Optional. The name of the EIP. The name must be 2 to 128 characters in length. It must start with a letter. It can contain numbers, periods (.), underscores (_), and hyphens (-). It cannot start with `http://` or `https://`.

Response parameters

Parameter	Type	Example value	Description
RequestId	String	4EC47282-1B74-4534-BD0E-403F3EE64CAF	The ID of the request.

Examples

Request example

```
https://vpc.aliyuncs.com/?Action=ModifyEipAddressAttribute
&AllocationId=eip-25877c70xxxxxx
&Name=eip1
&<CommonParameters>
```

Response example

`XML` format

```
<ModifyEipAddressAttributeResponse>
    <RequestId>0ED8D006-F706-4D23-88ED-E11ED28DCAC0</RequestId>
```

```
</ ModifyEipA  ddressAttr  ibuteRespo  nse >
```

`JSON` format

```
{
 " RequestId ":" 0ED8D006 - F706 - 4D23 - 88ED - E11ED28DCA  C0 "
}
```

Errors

HTTP status code	Error code	Error message	Description
400	InsufficientBalance.Eip	Your account does not have enough balance.	Your account balance is insufficient.
404	InvalidAllocationId.NotFound	Specified allocation ID is not found	The specified public IP address does not exist.
400	InvalidParameter	Specified value of "Bandwidth" is not supported.	The specified bandwidth is invalid.
500	InternalError	The request processing has failed due to some unknown error.	The request failed to be processed due to unknown errors.
400	IncorrectEipStatus	Current elastic IP status does not support this operation.	The status of the specified EIP does not permit this operation.
404	InvalidAllocationId.NotFound	Specified allocation ID is not found..	The specified public IP address does not exist.
400	InvalidParameter	The parameter is invalid.	The specified parameter value is invalid.
404	Forbidden.RegionNotFound	Specified region is not found during access authentication.	The specified region does not exist.

For a list of error codes, visit the API Error Center.

19.4 DescribeEipAddresses

Queries the created EIPs in a specified region.

Debug

Use OpenAPI Explorer to perform debug operations and generate SDK code examples.

Request parameters

Parameter	Type	Required?	Example value	Description
`Action`	String	Yes	DescribeEipAddresses	The name of this action. Value: DescribeEipAddresses
`RegionId`	String	Yes	cn-hangzhou	The ID of the region to be queried. To query the region ID, call DescribeRegions.
`AllocationId`	String	No	eip-2zeerraiwb7ujxxxxxxxx	Optional. The ID of the EIP to be queried.
`AssociatedInstanceId`	String	No	i-2zebb08phycxxxxxxxx	Optional. The ID of the cloud instance associated with the EIP.

Parameter	Type	Required?	Example value	Description
`AssociatedInstanceType`	String	No	EcsInstance	Optional. The type of the cloud instance associated with the EIP. · EcsInstance (default): ECS instances of the VPC network · SlbInstance: Server Load Balancer (SLB) instances of the VPC network · Nat: NAT Gateways · HaVip: High-Availability Virtual IP Addresses (HaVips) Each ECS instance, SLB instance, and HaVip can only be associated with one EIP. One NAT Gateway can be associated with multiple EIPs.
`ChargeType`	String	No	PostPaid	Optional. The billing method of the EIP. Value: Postpaid: Pay-As-You-Go
`EipAddress`	String	No	116.xx.xx.28	Optional. The IP address of the EIP. If you specify this parameter, you can view the information of a specific EIP.
`Filter.1.Key`	String	No	Filter.1.Name	Optional. The filter condition.
`Filter.1.Value`	String	No	value1	Optional. The value of the corresponding filter condition.

Parameter	Type	Required?	Example value	Description
`Filter.2.Key`	String	No	Filter.2.Description	Optional. The filter condition.
`Filter.2.Value`	String	No	value2	Optional. The value of the corresponding filter condition.
`ISP`	String	No	BGP	Optional. The service provider. The value is usually BGP.
`IncludeReservationData`	Boolean	No	true	Optional. Indicates whether to include orders that have not taken effect. Default value: False.
`LockReason`	String	No	financial	Optional. The reason why the EIP is locked. Valid values: · financial: The EIP is locked due to overdue payments. · security: The EIP is locked for security reasons.
`PageNumber`	Integer	No	10	Optional. The page number. Default value: 1
`PageSize`	Integer	No	10	Optional. The number of entries per page in the case of a paged query result. Maximum value: 50. Default value: 10
`ResourceGroupId`	String	No	rg-acfmxazb4pxxxxxxxx	Optional. The ID of the resource group.

Parameter	Type	Required?	Example value	Description
`Status`	String	No	Available	Optional. The status of the EIP. Valid values: · Associating: The EIP is being associated with a cloud instance. · Unassociating: The EIP is being disassociated from a cloud instance. · InUse: The EIP is already allocated. · Available: The EIP is available.

Response parameters

Parameter	Type	Example value	Description
EipAddresses			A list of EIPs.
AllocationId	String	eip-2zeerraiwb7ujxxxxxxxx	The ID of the EIP.
AllocationTime	String	2019-04-23T01:37:38Z	The time when the EIP is created.
AvailableRegions		cn-hangzhou	The ID of the region to which the EIP belongs.
Bandwidth	String	5	The peak bandwidth of the EIP. Unit: Mbit/s
BandwidthPackageId	String	cbwp-bp1ego3i4j07cxxxxxxxx	The ID of the Internet Shared Bandwidth instance to which the EIP is added.
BandwidthPackageType	String	CommonBandwidthPackage	The type of the Internet Shared Bandwidth instance.
ChargeType	String	PostPaid	The billing method of the EIP.

Parameter	Type	Example value	Description
Descritpion	String	Overview	The description of the EIP.
EipBandwidth	String	101	The bandwidth of the EIP before the EIP is added to or after the EIP is removed from the Internet Shared Bandwidth instance.
ExpiredTime	String	2019-04-29T02:37:38Z	The time when the EIP expires, which follows the ISO 8601 standard and uses UTC time. It is in the format of YYYY-MM-DDThh:mmZ.
HDMonitorStatus	String	false	Indicates whether high granularity monitoring is enabled for the EIP.
HasReservationData	String	wweayhddrhht	The value is true only when the request parameter IncludeReservationData is set to true and orders that have not taken effect exit.
ISP	String	BGP	The service provider. The value is usually BGP.
InstanceId	String	vpc-bp15zckdt37xxxxxxxx	The ID of the cloud instance that is associated with the EIP.
InstanceRegionId	String	cn-hangzhou	The region ID of the cloud instance that is associated with the EIP.
InstanceType	String	EcsInstance	The type of the cloud instance that is associated with the EIP.
InternetChargeType	String	PayByBandwidth	The billing method of the EIP.

Parameter	Type	Example value	Description
IpAddress	String	101.xx.xx.36	The IP address of the EIP.
Name	String	Elastic IP	The name of the EIP.
OperationLocks			The details of a locked EIP.
LockReason	String	financial	The reason why the EIP is locked. Valid values: · financial: The EIP is locked due to overdue payments. · security: The EIP is locked for security reasons.
RegionId	String	cn-hangzhou	The ID of the region to which the EIP belongs.
ReservationActiveTime	String	2019-03-11T16:00:00Z	The time when a renewal takes effect.
ReservationBandwidth	String	12	The bandwidth of the EIP after the renewal.
ReservationInternetChargeType	String	PayByBandwidth	The payment method of the renewal.
ReservationOrderType	String	RENEWCHANGE	The type of the renewal order. Valid values: · RENEWCHANGE: Change the specification. · TEMP_UPGRADE: Temporarily upgrade the EIP. · UPGRADE: Upgrade the EIP.
ResourceGroupId	String	rg-acfmxazxxxxxxxx	The ID of the resource group.

Parameter	Type	Example value	Description
Status	String	Associating	The status of the EIP. Valid values: · Associating: The EIP is being associated with a cloud instance. · Unassociating: The EIP is being disassociated from a cloud instance. · InUse: The EIP is already allocated. · Available: The EIP is available.
TotalCount	Integer	10	The total number of queried entries .
PageNumber	Integer	10	The current page number.
PageSize	Integer	10	The number of entries per page.
RequestId	String	4EC47282-1B74-4534-BD0E-403F3EE64CAF	The request ID.

Examples

Request example

```
 https :// vpc . aliyuncs . com /? Action = DescribeEi  pAddresses
& RegionId = cn - hangzhou
& CommonPara  meters
```

Response examples

`XML` format

```
< DescribeEi  pAddresses  Response >
   < RequestId > 7EEF2D6B - D207 - 4197 - AE37 - 01279C8887  57 </
 RequestId >
   < PageNumber > 1 </ PageNumber >
   < EipAddress  es >
      < EipAddress >
         < ChargeType > PostPaid </ ChargeType >
         < Allocation  Time > 2018 - 01 - 15T11 : 17 : 30Z </
 Allocation  Time >
         < ResourceGr  oupId > rg - acfmxazxxx  xxxxxx </ ResourceGr
 oupId >
         < InstanceId ></ InstanceId >
         < Descriptio  n ></ Descriptio  n >
         < IpAddress > 59 . 110 . xx . xx </ IpAddress >
```

```
        < Allocation  Id > eip - 2ze88m67qx  5zxxxxx </ Allocation
 Id >
        < InternetCh  argeType > PayByTraff  ic </ InternetCh
 argeType >
        < InstanceTy  pe ></ InstanceTy  pe >
        < Name ></ Name >
        < Status > Available </ Status >
        < BandwidthP  ackageId ></ BandwidthP  ackageId >
        < InstanceRe  gionId ></ InstanceRe  gionId >
        < BandwidthP  ackageType ></ BandwidthP  ackageType >
        < RegionId > cn - beijing </ RegionId >
        < OperationL  ocks ></ OperationL  ocks >
        < ExpiredTim  e ></ ExpiredTim  e >
        < AvailableR  egions >
           < AvailableR  egion > cn - beijing </ AvailableR  egion >
        </ AvailableR  egions >
             < Bandwidth > 1 </ Bandwidth >
     </ EipAddress >
   </ EipAddress  es >
   < TotalCount > 1 </ TotalCount >
   < PageSize > 10 </ PageSize >
</ DescribeEi  pAddresses  Response >
```

`JSON` format

```
{
 " DescribeEi  pAddresses  Response ":{
  " PageNumber ":" 1 ",
  " EipAddress  es ":{
   " EipAddress ":{
    " ChargeType ":" PostPaid ",
    " Status ":" Available ",
    " RegionId ":" cn - beijing ",
    " ResourceGr  oupId ":" rg - acfmxazxxx  xxxxx ",
    " Allocation  Time ":" 2018 - 01 - 15T11 : 17 : 30Z ",
    " IpAddress ":" 59 . 110 . xx . xx ",
    " Allocation  Id ":" eip - 2ze88m67qx  5zxxxxx ",
    " AvailableR  egions ":{
     " AvailableR  egion ":" cn - beijing "
    },
    " InternetCh  argeType ":" PayByTraff  ic ",
    " Bandwidth ":" 1 "
   }
  },
  " TotalCount ":" 1 ",
  " PageSize ":" 10 ",
  " RequestId ":" 7EEF2D6B - D207 - 4197 - AE37 - 01279C8887  57 "
 }
```

```
}
```

Errors

HTTP status code	Error code	Error message	Description
404	Forbidden.RegionNotFound	Specified region is not found during access authentication.	The specified region does not exist. Please check if the specified region is correct.
404	InvalidFilterKey.NotFound		The specified filter key is invalid.
404	InvalidFilterValue		The specified filter value is invalid.
404	InvalidLockReason.NotFound	The specified LockReason is not found	The reason why the EIP is locked is unknown.
400	InvalidIAssociatedInstanceType.ValueNotSupported	The specified value of AssociatedInstanceType is not supported.	The specified value of AssociatedInstanceType is invalid.
400	InvalidChargeType.ValueNotSupported	The specified ChargeType is not supported.	The specified billing method is not supported. Please select another billing method.

For a list of error codes, visit the API Error Center.

19.5 UnassociateEipAddress

Disassociates an Elastic IP Address (EIP) from a cloud resource.

Debug

Use OpenAPI Explorer to perform debug operations and generate SDK code examples.

Request parameters

Parameter	Type	Required?	Example value	Description
`Action`	String	Yes	UnassociateEipAddress	The name of this action. Value: UnassociateEipAddress
`AllocationId`	String	Yes	eip-2zeerraiwb7uj6i0d0fo3	The instance ID of the EIP.
`InstanceId`	String	Yes	i-12345678	The instance ID of the cloud resource to be disassociated.
`RegionId`	String	Yes	cn-hangzhou	The ID of the region to which the EIP belongs.
`InstanceType`	String	No	EcsInstance	Optional. The type of the cloud resource instance to be disassociated. Valid values: · EcsInstance (default): ECS instances of the VPC type · SlbInstance: Server Load Balancer (SLB) instances of the VPC type · Nat: NAT Gateways · HaVip: High-Availability Virtual IP Addresses (HaVips)

Response parameters

Parameter	Type	Example value	Description
RequestId	String	220F3179-5238-47F0-A0CA-1272AA2BC41F	The ID of the request.

Examples

Request example

```
https :// vpc . aliyuncs . com /? Action = Unassociat  eEipAddres  s
```

```
& Allocation  Id = eip - 25877c70x
& InstanceId = i - 25skktcp4
&< CommonPara  meters >
```

Response example

`XML` **format**

```
< Unassociat  eEipAddres  sResponse >
   < RequestId > 0ED8D006 - F706 - 4D23 - 88ED - E11ED28DCA  C0 </
 RequestId >
</ Unassociat  eEipAddres  sResponse >
```

`JSON` **format**

```
{
 " RequestId ":" 0ED8D006 - F706 - 4D23 - 88ED - E11ED28DCA  C0 "
}
```

Errors

HTTP status code	Error code	Error message	Description
400	IncorrectEipStatus	Current elastic IP status does not support this operation.	The status of the specified EIP does not permit this operation.
400	InvalidInstanceId.NotFound	Specified instance does not exist.	The specified instance does not exist.
400	IncorrectInstanceStatus	The current status of instance does not support this operation.	The status of the instance does not permit this operation.
400	InvalidInstanceType.ValueNotSupported	The specified value of InstanceType is not supported.	The value of InstanceType is invalid.
400	IncorrectHaVipStatus	This operation is denied because status of the specified HaVip is neither Available nor InUse.	This operation cannot be performed because the HaVip is not in the Available or InUse state.
400	OperationDenied	Eip of default vpc not allow this operation	The EIP of the default VPC does not support this operation.

HTTP status code	Error code	Error message	Description
404	Forbidden.RegionNotFound	Specified region is not found during access authentication.	The specified region does not exist.
400	InvalidParameter	The specified parameter is not valid.	The specified parameter value is invalid.
400	Forbbiden	The eip instance owener error	You are not authorized to call this EIP.
400	InvalidBindingStatus	The eip binding status invalid.	The associating status of the EIP is invalid.

For a list of error codes, visit the API Error Center.

19.6 ReleaseEipAddress

Releases an Elastic IP Address (EIP).

> **Note:**
> Only EIPs in the Available state can be released.

Debug

Use OpenAPI Explorer to perform debug operations and generate SDK code examples.

Request parameters

Parameter	Type	Required?	Example value	Description
`Action`	String	Yes	ReleaseEipAddress	The name of this action. Value: ReleaseEipAddress
`AllocationId`	String	Yes	eip-2zeerraiwb7uj6i0d0fo3	The ID of the EIP to be released.

Parameter	Type	Required?	Example value	Description
RegionId	String	Yes	cn-hangzhou	The ID of the region to which the EIP belongs. To query the region ID, call DescribeRegions.

Response parameters

Parameter	Type	Example value	Description
RequestId	String	748C38F6-9A3D-482E-83FB-DB6C39C68AEA	The ID of the request.

Examples

Request example

```
https://vpc.aliyuncs.com/?Action=ReleaseEipAddress
&AllocationId=eip-25877c70x
&<CommonParameters>
```

Response example

`XML` format

```
<?xml version="1.0" encoding="UTF-8"?>
<ReleaseEipAddressResponse>
    <RequestId>748C38F6-9A3D-482E-83FB-DB6C39C68AEA</
RequestId>
</ReleaseEipAddressResponse>
```

`JSON` format

```
{
"RequestId":"748C38F6-9A3D-482E-83FB-DB6C39C68AEA"
```

```
}
```

Errors

HTTP status code	Error code	Error message	Description
404	InvalidAllocationId.NotFound	Specified allocation ID is not found	The specified public IP address does not exist.
400	IncorrectEipStatus	Current elastic IP status does not support this operation.	The status of the specified EIP does not permit this operation.
500	InternalError	The request processing has failed due to some unknown error.	The request failed to be processed due to unknown errors.
404	Forbidden.RegionNotFound	Specified region is not found during access authentication.	The specified region does not exist.
400	Forbidden.ChargeTypeIsPrepaid	It's forbidden to release a prepaid EIP	Subscription EIPs cannot be released.
400	Forbbiden	The eip instance owener error	You are not authorized to release the specified EIP.
400	TaskConflict.AssociateGlobalAccelerationInstance	Operate too frequent.	Too many requests were sent.

For a list of error codes, visit the API Error Center.

19.7 DescribeEipMonitorData

Queries the monitoring data of an Elastic IP address (EIP).

Debug

Use OpenAPI Explorer to perform debug operations and generate SDK code examples.

Request parameters

Parameter	Type	Required?	Example value	Description
`Action`	String	Yes	DescribeEipMonitorData	The name of this action. Value: DescribeEipMonitorData
`AllocationId`	String	Yes	eip-2zeerraiwb7uj6ixxxxxxxx	The instance ID of the EIP.
`EndTime`	String	Yes	2017-01-05T01:05:10Z	The end time to retrieve data. This parameter uses the ISO 8601 format and is output in UTC+8. Format: YYYY-MM-DDThh:mm:ssZ. For example, 20:00:00 UTC+8 of January 10, 2013 should be in the format of 2013-01-10T12:00:00Z. If ss is not 00, the next minute is automatically used as the end time.
`RegionId`	String	Yes	cn-hangzhou	The ID of the region to which the EIP belongs.
`StartTime`	String	Yes	2017-01-05T02:05:05Z	The start time to retrieve data. This parameter uses the ISO 8601 format and is output in UTC+8. Format: YYYY-MM-DDThh:mm:ssZ. For example, 20:00:00 UTC+8 of January 10, 2013 should be in the format of 2013-01-10T12:00:00Z. If ss is not 00, the next minute is automatically used as the start time.

Parameter	Type	Required?	Example value	Description
`Period`	Integer	No	60	Optional. The time length of each monitoring data point. Default value: 60. Valid values: 60 | 600 | 3600. Unit: seconds · The value of (EndTime – StartTime)/Period must be larger than 200, that is, up to 200 points of monitoring data are returned. · If the value of (EndTime – StartTime) is smaller than 200, only the monitoring data collected at the start time is returned.

Response parameters

Parameter	Type	Example value	Description
EipMonitorDatas			The details of EIP monitoring data.
EipBandwidth	Integer	10	The value of the bandwidth: EipFlow/60. Unit: bit/s.
EipFlow	Integer	675	The sum of the inbound and outbound bandwidth.
EipPackets	Integer	3434	The number of packets.
EipRX	Integer	122	The inbound bandwidth. Unit: Bytes.
EipTX	Integer	343	The outbound bandwidth. Unit: Bytes.

Parameter	Type	Example value	Description
TimeStamp	String	2010-01-21T09:50:23Z	The timestamp of the query in ISO8601 format. Example value: 2018-12-20T03:14:00Z.
RequestId	String	C8B26B44-0189-443E-9816-D951F59623A9	The ID of the request.

Examples

Request example

```
 https :// vpc . aliyuncs . com /? Action = DescribeEi  pMonitorDa
 ta
& Allocation  Id = eip - 2zeerraiwb  7uj6ixxxxx  xxx
& EndTime = 2017 - 01 - 05T01 : 05 : 10Z
& StartTime = 2017 - 01 - 05T02 : 05 : 05Z
&< CommonPara  meters >
```

Response example

`XML` format

```
< DescribeEi  pMonitorDa  ta >
   < RequestId > B7D72D42 - 8A6C - 4764 - 963B - 5F7C049FA7  69 </
 RequestId >
   < EipMonitor  Datas >
      < EipMonitor  Data >
         < TimeStamp > 2019 - 05 - 29T03 : 39 : 00Z </ TimeStamp >
         < EipFlow > 32666910 </ EipFlow >
         < EipTX > 140370 </ EipTX >
         < EipPackets > 23700 </ EipPackets >
         < EipRX > 32526540 </ EipRX >
         < EipBandwid  th > 544448 </ EipBandwid  th >
      </ EipMonitor  Data >
      < EipMonitor  Data >
         < TimeStamp > 2019 - 05 - 29T03 : 40 : 00Z </ TimeStamp >
         < EipFlow > 43020 </ EipFlow >
         < EipTX > 17730 </ EipTX >
         < EipPackets > 120 </ EipPackets >
         < EipRX > 25290 </ EipRX >
         < EipBandwid  th > 717 </ EipBandwid  th >
      </ EipMonitor  Data >
   </ EipMonitor  Datas >
</ DescribeEi  pMonitorDa  ta >
```

`JSON` format

```
{
 " RequestId ":" B7D72D42 - 8A6C - 4764 - 963B - 5F7C049FA7  69 ",
 " EipMonitor  Datas ":{
  " EipMonitor  Data ":[
```

```
    {
     " TimeStamp ":" 2019 - 05 - 29T03 : 39 : 00Z ",
     " EipTX ": 140370 ,
     " EipFlow ": 32666910 ,
     " EipPackets ": 23700 ,
     " EipRX ": 32526540 ,
     " EipBandwid  th ": 544448
    },
    {
     " TimeStamp ":" 2019 - 05 - 29T03 : 40 : 00Z ",
     " EipTX ": 17730 ,
     " EipFlow ": 43020 ,
     " EipPackets ": 120 ,
     " EipRX ": 25290 ,
     " EipBandwid  th ": 717
    }
   ]
  }
 }
```

Errors

HTTP status code	Error code	Error message	Description
404	InvalidInstanceId.NotFound	The InstanceId provided does not exist in our records.	The specified instance ID does not exist.
400	InvalidStartTime.Malformed	The specified parameter "StartTime" is not valid.	The format of the specified start time is invalid.
400	InvalidEndTime.Malformed	The specified parameter "EndTime" is not valid.	The format of the specified end time is invalid.
400	InvalidPeriod.ValueNotSupported	The specified parameter "Period" is not valid.	The specified period value is invalid.
400	InvalidStartTime.TooEarly	The specified parameter "StartTime" is too early.	The specified start time is invalid.
400	InvalidAllocationId.NotFound	Specified allocation id is not found.	The specified public IP address does not exist. Check if you have entered the correct public IP address.
400	OperationDenied.TooManyDataQueried	Specified operation is denied as too many data to return.	The operation cannot be performed because too much data is returned.

HTTP status code	Error code	Error message	Description
404	Forbidden.RegionNotFound	Specified region is not found during access authentication.	The specified region does not exist.

For a list of error codes, visit the API Error Center.

19.8 DescribeEipGatewayInfo

Queries the gateway address and subnet mask of an EIP.

You can only query the gateway address and subnet mask of an EIP that is associated with a secondary Elastic Network Interface (ENI) in the multi-EIP to ENI mode.

Debug

Use OpenAPI Explorer to perform debug operations and generate SDK code examples.

Request parameters

Parameter	Type	Required?	Example value	Description
`Action`	String	Yes	DescribeEipGatewayInfo	The name of this action. Value: DescribeEipGatewayInfo
`InstanceId`	String	Yes	eni-bp1d66qjxb3qoin3xxxx	The ID of the ENI with which the EIP is associated.
`RegionId`	String	Yes	cn-zhangjiakou	The region ID of the EIP. To query the region ID, call DescribeRegions.

Response parameters

Parameter	Type	Example value	Description
Code	String	200	The status code of the request.
EipInfos			The details of the EIP.

Parameter	Type	Example value	Description
Ip	String	47.xx.xx.236	The IP address of the EIP.
IpGw	String	47.xx.xx.1	The gateway address of the EIP.
IpMask	String	255.255.255.0	The subnet mask of the EIP.
Message	String	successful	The message indicating whether the request is successful.
RequestId	String	C0FD0EED-F90D-4479-803D-DD62335357E5	The ID of the request.

Examples

Request example

```
 http ( s ):// vpc . aliyuncs . com /?  Action = DescribeEi
 pGatewayIn  fo
& InstanceId = eni - bp1d66qjxb  3qoin3 ****
& RegionId = cn - zhangjiako  u
&< CommonPara  meters >
```

Response examples

`XML` format

```
< DescribeEi  pGatewayIn  foResponse >
  < Message > successful </ Message >
  < RequestId > 0ED8D006 - F706 - 4D23 - 88ED - E11ED28DCA  C0 </
 RequestId >
  < EipInfos >
    < EipInfo >
      < IP > 47 . xx . xx .  236 </ IP >
      < IpMask > 255 . 255 . 255 . 0 </ IpMask >
      < IpGw > 47 . xx . xx .  1 </ IpGw >
    </ EipInfo >
  </ EipInfos >
  < Code > 200 </ Code >
</ DescribeEi  pGatewayIn  foResponse >
```

`JSON` format

```
{
 " Message ":" successful ",
 " RequestId ":" 0ED8D006 - F706 - 4D23 - 88ED - E11ED28DCA  C0 ",
 " EipInfos ":{
  " EipInfo ":[
   {
    " IpMask ":" 255 . 255 . 255 . 0 ",
```

```
    " IP ":" 47 . xx . xx .  236 ",
    " IpGw ":" 47 . xx . xx .  1 "
   }
  ]
 },
 " Code ":" 200 "
}
```

Error codes

HTTP status code	Error code	Error message	Description
403	Forbbiden	User not authorized to operate on the specified resource.	You are not authorized to operate on this resource.

See common error codes.

20 Flow log API

20.1 CreateFlowLog

Creates a flow log.

Debug

Use OpenAPI Explorer to perform debug operations and generate SDK code examples.

Request parameters

Parameter	Type	Required?	Example value	Description
`Action`	String	Yes	CreateFlowLog	The name of this action. Value: CreateFlowLog.
`LogStoreName`	String	Yes	FlowLogStore	The Logstore that stores the captured traffic.
`ProjectName`	String	Yes	FlowLogProject	The Project that stores the captured traffic.
`RegionId`	String	Yes	cn-qingdao	The region to which the flow log belongs. To query the region ID, call DescribeRegions.
`ResourceId`	String	Yes	eni-askldfasxxxxxxxx	The ID of the resource whose traffic you want to capture.
`ResourceType`	String	Yes	NetworkInterface	The type of the resource whose traffic you want to capture. Valid Values: · NetworkInterface: ENI · VSwitch: all ENIs in the VSwitch · VPC: all ENIs in the VPC

Parameter	Type	Required?	Example value	Description
`TrafficType`	String	Yes	all	The type of the traffic to be captured. Valid values: · All: all traffic · Allow: traffic permitted by access control · Drop: traffic denied by access control
`Description`	String	No	This is my Flowlog.	The description of the flow log. The description must be 2 to 256 characters in length. It must start with a letter, but cannot start with `http://` or `https://`.
`FlowLogName`	String	No	myFlowlog	The name of the flow log. The name must be 2 to 128 characters in length. It must start with a letter and can contain numbers, periods (.), underscores (_), and hyphens (-). It cannot start with `http://` or `https://`.

Response parameters

Parameter	Type	Example value	Description
FlowLogId	String	flowlog-m5evbtbptxxxxxxxxxxx	The ID of the flow log.
RequestId	String	54B48E3D-DF70-471B-AA93-08E683A1B457	The ID of the request.

Examples

Request example

```
 https :// vpc . aliyuncs . com /? Action = CreateFlow  Log
& LogStoreNa  me = FlowLogSto  re
& ProjectNam  e = FlowLogPro  ject
& RegionId = cn - qingdao
& ResourceId = eni - askldfasxx  xxxxxx
& ResourceTy  pe = NetworkInt  erface
& TrafficTyp  e = all
&< CommonPara  meters >
```

Response example

`XML` format

```
< CreateFlow  LogRespons  e >
      < RequestId > 62172DD5 - 6BAC - 45DF - 8D44 - xxxxxxxx </
 RequestId >
      < FlowLogId > flowlog - m5evbtbptx  xxxxxxxxxx  x </ FlowLogId >
</ CreateFlow  LogRespons  e >
```

`JSON` format

```
{
 " RequestId ":" 62172DD5 - 6BAC - 45DF - 8D44 - xxxxxxxx ",
 " FlowLogId ":" flowlog - m5evbtbptx  xxxxxxxxxx  x "
}
```

Errors

HTTP status code	Error code	Error message	Description
400	INVALID_PARAMETER	The parameter invalid.	The specified parameter is invalid.
400	MissingParameter	Missing mandatory parameter	One or more mandatory parameters are missing.

For a list of error codes, visit the API Error Center.

20.2 ModifyFlowLogAttribute

Modifies the name and description of a flow log.

Debug

Use OpenAPI Explorer to perform debug operations and generate SDK code examples.

Request parameters

Parameter	Type	Required?	Example value	Description
`Action`	String	Yes	ModifyFlowLogAttribute	The name of this action. Value: ModifyFlowLogAttribute.
`FlowLogId`	String	Yes	flowlog-m5evbtbptxxxxxxxxxxx	The ID of the flow log.
`RegionId`	String	Yes	cn-qingdao	The ID of the region to which the flow log belongs. To query the region ID, call DescribeRegions.
`Description`	String	No	This is my Flowlog.	The description of the flow log. The description must be 2 to 256 characters in length. It must start with a letter, but cannot start with `http://` or `https://`.
`FlowLogName`	String	No	myFlowlog	The name of the flow log. The name must be 2 to 128 characters in length. It must start with a letter and can contain numbers, periods (.), underscores (_), and hyphens (-). It cannot start with `http://` or `https://`.

Response parameters

Parameter	Type	Example value	Description
RequestId	String	F7DDDC17-FA06-4AC2-8F35-59D2470FCFC1	The ID of the request.

Examples

Request example

```
 https :// vpc . aliyuncs . com /? Action = ModifyFlow  LogAttribu
 te
& RegionId = cn - qingdao
& FlowLogId = flowlog - m5evbtbptx  xxxxxxxxxx  x
& FlowLogNam  e = myFlowlog
&< Commonpara  meters >
```

Response example

`XML` format

```
< ModifyFlow  LogAttribu  teResponse >
   < RequestId > 62172DD5 - 6BAC - 45DF - 8D44 - xxxxxxxx </ RequestId
 >
   < FlowLogId > flowlog - m5evbtbptx  xxxxxxxxxx  x </ FlowLogId >
</ ModifyFlow  LogAttribu  teResponse >
```

`JSON` format

```
{
 " RequestId ":" 62172DD5 - 6BAC - 45DF - 8D44 - xxxxxxxx ",
 " FlowLogId ":" flowlog - m5evbtbptx  xxxxxxxxxx  x "
}
```

Errors

For a list of error codes, visit the API Error Center.

20.3 DescribeFlowLogs

Queries a flow log.

Debug

Use OpenAPI Explorer to perform debug operations and generate SDK code examples.

Request parameters

Parameter	Type	Required?	Example value	Description
`Action`	String	Yes	DescribeFlowLogs	The name of this action. Value: DescribeFlowLogs.

Parameter	Type	Required?	Example value	Description
`RegionId`	String	Yes	cn-qingdao	The ID of the region to which the flow log belongs. To query the region ID, call DescribeRegions.
`FlowLogId`	String	No	flowlog-m5evbtbptxxxxxxxxxxx	The ID of the flow log.
`FlowLogName`	String	No	myFlowlog	The name of the flow log. The name must be 2 to 128 characters in length. It must start with a letter and can contain numbers, periods (.), underscores (_), and hyphens (-). It cannot start with `http://` or `https://`.
`LogStoreName`	String	No	FlowLogStore	The Logstore that stores the captured traffic.
`ProjectName`	String	No	FlowLogProject	The Project that stores the captured traffic.
`ResourceId`	String	No	eni-askldfasxxxxxxx	The ID of the resource whose traffic you want to capture.
`ResourceType`	String	No	NetworkInterface	The type of the resource whose traffic you want to capture. Valid values: · NetworkInterface: ENI · VSwitch: all ENIs in the VSwitch · VPC: all ENIs in the VPC

Parameter	Type	Required?	Example value	Description
`TrafficType`	String	No	All	The type of the traffic to be captured. Valid values: · All: all traffic · Allow: traffic permitted by access control · Drop: traffic denied by access control

Response parameters

Parameter	Type	Example value	Description
FlowLogs			The flow log.
CreationTime	String	2018-07-24T13:00:52Z	The time when the flow log was created.
Description	String	abc	The description of the flow log.
FlowLogId	String	flowlog-m5evbtbptxxxxxxxxxxx	The ID of the flow log.
FlowLogName	String	myFlowlog	The name of the flow log.
LogStoreName	String	FlowLogStore	The Logstore that stores the captured traffic.
ProjectName	String	FlowLogProject	The Project that stores the captured traffic.
RegionId	String	cn-qingdao	The region to which the flow log belongs.
RequestId	String	F7DDDC17-FA06-4AC2-8F35-59D2470FCFC1	The ID of the request.

Examples

Request example

```
 https :// vpc . aliyuncs . com /? Action = DescribeFl  owLogs
& RegionId = cn - qingdao
& FlowLogId = fl - m5evbtbptx  xxxxxxxxxx  x
&< CommonPara  meters >
```

Response example

`XML` format

```
< DescribeFl  owLogsResp  onse >
      < RequestId > 04F0F334 - 1335 - 436C - A1D7 - 6C044FExxx  xx </
 RequestId >
</ DescribeFl  owLogsResp  onse >
```

`JSON` format

```
{
 " RequestId ":" 04F0F334 - 1335 - 436C - A1D7 - 6C044FExxx  xx "
}
```

Errors

For a list of error codes, visit the API Error Center.

20.4 ActiveFlowLog

Activates a flow log to capture the traffic of the specified resource.

Debug

Use OpenAPI Explorer to perform debug operations and generate SDK code examples.

Request parameters

Parameter	Type	Required?	Example value	Description
`Action`	String	Yes	ActiveFlowLog	The name of this action. Value: ActiveFlowLog.
`FlowLogId`	String	Yes	fl-m5evbtbptx xxxxxxxxxxx	The ID of the flow log.

Parameter	Type	Required?	Example value	Description
`RegionId`	String	Yes	cn-qingdao	The ID of the region to which the flow log belongs. To query the region ID, call DescribeRegions.

Response parameters

Parameter	Type	Example value	Description
RequestId	String	F7DDDC17-FA06-4AC2-8F35-59D2470FCFC1	The ID of the request.

Examples

Request example

```
https://vpc.aliyuncs.com/?Action=ActiveFlowLog
&RegionId=cn-qingdao
&FlowLogId=fl-m5evbtbptxxxxxxxxxx
&<CommonParameters>
```

Response example

`XML` format

```
<ActiveFlowLog>
    <RequestId>04F0F334-1335-436C-A1D7-6C044FExxxxx</
RequestId>
</ActiveFlowLog>
```

`JSON` format

```
{
"RequestId":"04F0F334-1335-436C-A1D7-6C044FExxxxx"
}
```

Errors

For a list of error codes, visit the API Error Center.

20.5 DeactiveFlowLog

Deactivates a flow log to stop capturing the traffic of the specified resource.

Debug

Use OpenAPI Explorer to perform debug operations and generate SDK code examples.

Request parameters

Parameter	Type	Required?	Example value	Description
`Action`	String	Yes	DeactiveFlowLog	The name of this action. Value: DeactiveFlowLog.
`FlowLogId`	String	Yes	fl-m5evbtbptxxxxxxxxxxx	The ID of the flow log.
`RegionId`	String	Yes	cn-qingdao	The ID of the region of the flow log. To query the region ID, call DescribeRegions.

Response parameters

Parameter	Type	Example value	Description
RequestId	String	F7DDDC17-FA06-4AC2-8F35-59D2470FCFC1	The ID of the request.

Examples

Request example

```
https://vpc.aliyuncs.com/?Action=DeactiveFlowLog
&RegionId=cn-qingdao
&FlowLogId=fl-m5evbtbptxxxxxxxxxxx
&<CommonParameters>
```

Response example

`XML` format

```
<DeactiveFlowLog>
    <RequestId>04F0F334-1335-436C-A1D7-6C044FExxxxx</RequestId>
```

```
</ DeactiveFl  owLog >
```

`JSON` format

```
{
 " RequestId ":" 04F0F334 - 1335 - 436C - A1D7 - 6C044FExxx  xx "
}
```

Errors

For a list of error codes, visit the API Error Center.

20.6 DeleteFlowLog

Deletes a flow log.

Debug

Use OpenAPI Explorer to perform debug operations and generate SDK code examples.

Request parameters

Parameter	Type	Required?	Example value	Description
`Action`	String	Yes	DeleteFlowLog	The name of this action. Value: DeleteFlowLog.
`FlowLogId`	String	Yes	fl-m5evbtbptxxxxxxxxxxx	The ID of the flow log.
`RegionId`	String	Yes	cn-qingdao	The ID of the region to which the flow log belongs. To query the region ID, call DescribeRegions.

Response parameters

Parameter	Type	Example value	Description
RequestId	String	F7DDDC17-FA06-4AC2-8F35-59D2470FCFC1	The ID of the request.

Examples

Request example

```
 https :// vpc . aliyuncs . com /? Action = DeleteFlow  Log
& RegionId = cn - qingdao
& FlowLogId = fl - m5evbtbptx  xxxxxxxxxx  x
&< CommonPara  meters >
```

Response example

`XML` format

```
< DeleteFlow  Log >
        < RequestId > 04F0F334 - 1335 - 436C - A1D7 - 6C044FExxx  xx
 </ RequestId >
</ DeleteFlow  Log >
```

`JSON` format

```
{
 " RequestId ":" 04F0F334 - 1335 - 436C - A1D7 - 6C044FExxx  xx "
}
```

Errors

For a list of error codes, visit the API Error Center.