

Alibaba Cloud

VPN Gateway
API Reference

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Document conventions









Style	Description	Example
 Danger	A danger notice 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.
 Warning	A warning notice 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 restart an instance.
 Notice	A caution notice indicates warning information, supplementary instructions, and other content that the user must understand.	 Notice: If the weight is set to 0, the server no longer receives new requests.
 Note	A note indicates supplemental instructions, best practices, tips, and other content.	 Note: You can use Ctrl + A to select all files.
>	Closing angle brackets are used to indicate a multi-level menu cascade.	Click Settings> Network> Set network type .
Bold	Bold formatting is used for buttons, menus, page names, and other UI elements.	Click OK .
Courier font	Courier font is used for commands	Run the <code>cd /d C:/window</code> command to enter the Windows system folder.
<i>Italic</i>	Italic formatting is used for parameters and variables.	<code>bae log list --instanceid</code> <i>Instance_ID</i>
[] or [a b]	This format is used for an optional value, where only one item can be selected.	<code>ipconfig [-all -t]</code>
{ } or {a b}	This format is used for a required value, where only one item can be selected.	<code>switch {active stand}</code>

Table of Contents

1. List of operations by function	06
2. Call APIs	09
3. Common parameters	12
4. VPN Gateway	14
4.1. CreateVpnGateway	14
4.2. ModifyVpnGatewayAttribute	17
4.3. DescribeVpnGateways	22
4.4. DescribeVpnGateway	26
4.5. DeleteVpnGateway	30
4.6. TagResources	32
4.7. ListTagResources	35
4.8. UntagResources	39
5. Customer gateway	41
5.1. CreateCustomerGateway	41
5.2. ModifyCustomerGatewayAttribute	44
5.3. DescribeCustomerGateways	47
5.4. DescribeCustomerGateway	50
5.5. DeleteCustomerGateway	52
6. VPN Gateway routes	55
6.1. CreateVpnRouteEntry	55
6.2. CreateVpnPbrRouteEntry	58
6.3. PublishVpnRouteEntry	62
6.4. DescribeVpnRouteEntries	65
6.5. DescribeVpnPbrRouteEntries	68
6.6. ModifyVpnRouteEntryWeight	71
6.7. ModifyVpnPbrRouteEntryWeight	74

6.8. DeleteVpnRouteEntry	76
6.9. DeleteVpnPbrRouteEntry	79
7. IPsec-VPN	82
7.1. CreateVpnConnection	82
7.2. ModifyVpnConnectionAttribute	89
7.3. DescribeVpnConnections	101
7.4. DescribeVpnConnection	108
7.5. DownloadVpnConnectionConfig	116
7.6. DeleteVpnConnection	121
8. SSL-VPN	124
8.1. CreateSslVpnServer	124
8.2. ModifySslVpnServer	127
8.3. DescribeSslVpnServers	133
8.4. DeleteSslVpnServer	137
8.5. CreateSslVpnClientCert	139
8.6. ModifySslVpnClientCert	142
8.7. DescribeSslVpnClientCerts	144
8.8. DescribeVpnSslServerLogs	149
8.9. DeleteSslVpnClientCert	151

1. List of operations by function

The following tables list the API operations that are available for use in VPN Gateway. The endpoint of the VPN Gateway API is `vpc.aliyuncs.com`. For more information, see the Call APIs topic in API Reference for Virtual Private Cloud (VPC).

VPN gateways

API	Description
CreateVpnGateway	Creates a VPN gateway.
ModifyVpnGatewayAttribute	Modifies the name and description of a VPN gateway.
DescribeVpnGateways	Queries VPN gateways.
DescribeVpnGateway	Queries details about a VPN gateway.
DeleteVpnGateway	Deletes a VPN gateway.
TagResources	Creates and attaches tags to the specified VPN gateways.
ListTagResources	Queries tags that are attached to the specified VPN gateways.
UntagResources	Removes tags from the specified VPN gateways.

Customer gateways

API	Description
CreateCustomerGateway	Creates a customer gateway.
ModifyCustomerGatewayAttribute	Modifies the name and description of a customer gateway.
DescribeCustomerGateways	Queries customer gateways.
DescribeCustomerGateway	Queries details about a customer gateway.
DeleteCustomerGateway	Deletes a customer gateway.

Routes for VPN gateways

API	Description
CreateVpnRouteEntry	Creates a destination-based route entry for a VPN gateway.

API	Description
CreateVpnPbrRouteEntry	Creates a policy-based route entry for a VPN gateway.
PublishVpnRouteEntry	Publishes a route entry of a VPN gateway to the route table of the associated VPC network.
DescribeVpnRouteEntries	Queries destination-based route entries of a VPN gateway.
DescribeVpnPbrRouteEntries	Queries policy-based route entries of a VPN gateway.
ModifyVpnRouteEntryWeight	Modifies the weight of a destination-based route entry for a VPN gateway.
ModifyVpnPbrRouteEntryWeight	Modifies the weight of a policy-based route entry for a VPN gateway.
DeleteVpnRouteEntry	Deletes a destination-based route entry of a VPN gateway.
DeleteVpnPbrRouteEntry	Deletes a policy-based route entry of a VPN gateway.

IPsec-VPN

API	Description
CreateVpnConnection	Creates an IPsec-VPN connection.
ModifyVpnConnectionAttribute	Modifies the configuration of an IPsec-VPN connection.
DescribeVpnConnections	Queries IPsec-VPN connections.
DescribeVpnConnection	Queries details about an IPsec-VPN connection.
DownloadVpnConnectionConfig	Downloads the configuration of an IPsec-VPN connection.
DeleteVpnConnection	Deletes an IPsec-VPN connection.

SSL-VPN

API	Description
CreateSslVpnServer	Creates an SSL-VPN server.
ModifySslVpnServer	Modifies the configuration of an SSL-VPN server.
DescribeSslVpnServers	Queries SSL-VPN servers.

API	Description
DeleteSslVpnServer	Deletes an SSL-VPN server.
CreateSslVpnClientCert	Creates an SSL-VPN client certificate.
ModifySslVpnClientCert	Modifies the name of an SSL-VPN client certificate.
DescribeSslVpnClientCerts	Queries SSL-VPN client certificates.
DescribeVpnSslServerLogs	Queries the logs of an SSL server.
DeleteSslVpnClientCert	Deletes an SSL-VPN client certificate.

2.Call APIs

VPN Gateway and VPC use the same service address (endpoint). This means that when you call VPN Gateway APIs, HTTP GET requests are sent to the API end point of VPN Gateway, and the system responds according to the parameters set in the request. Both the requests and responses are UTF-8 encoded.

Request syntax

VPN Gateway APIs use RPC style. To call VPN Gateway APIs, send HTTP GET requests.

The structure of a VPN Gateway API request is as follows:


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

Where:

- **Endpoint:** The endpoint of VPN Gateway APIs is `vpc.aliyuncs.com`.
- **Action:** the name of the action. For example, if you need to create a VPN Gateway, the action is `CreateVpnGateway`.
- **Version:** the version of the API. The version of VPN 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 [Common parameters](#).

The following is an example of calling `CreateVpnGateway` to create a VPN Gateway:

 **Note** The following code has been edited to improve readability.

```
https://vpc.aliyuncs.com/?Action=CreateVpnGateway
&Format=xml
&Version=2016-04-28
&Signature=xxxx%xxxxx%3D
&SignatureMethod=HMAC-SHA1
&SignatureNonce=15215528852396
&SignatureVersion=1.0
&AccessKeyId=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 call APIs using the AKs of RAM users, you need to grant permissions to the RAM users by attaching corresponding policies to them.

For more information about the policies related to VPN Gateway APIs, see [RAM authentication](#).

Request signature

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

VPN Gateway 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 authentication. 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.

A request in an API call is signed in the following format:

```
https://endpoint/?SignatureVersion=1.0&SignatureMethod=HMAC-SHA1&Signature=XXXX%3D&SignatureNonce=3ee8c1b8-83d3-44af-a94f-4e0axxxxxxxxx
```

Take the API call of CreateVpnGateway as an example. If your AccessKey ID is `testid`, and your AccessKey Secret is `testsecret`, then, the URL in the signature is as follows:

```
http://vpc.aliyuncs.com/?Action=CreateVpnGateway
&Timestamp=2016-05-23T12:46:24Z
&Format=XML
&AccessKeyId=testid
&SignatureMethod=HMAC-SHA1
&SignatureNonce=3ee8c1b8-83d3-44af-a94f-4e0axxxxxxxxx
&Version=2014-05-26
&SignatureVersion=1.0
```

To generate the signature, follow these steps:

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

```
GET&%2F&AccessKeyId%3Dtestid&Action%3DCreateVpnGateway&Format%3DXML&SignatureMethod%3DHMAC-SHA1&SignatureNonce%3D3ee8c1b8-83d3-44af-a94f-4e0axxxxxxxxx&SignatureVersion%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&`.

```
CT9X0VtwR86fNWS*****juE=
```

3. Add the signature to the request parameter.

```
http://vpc.aliyuncs.com/?Action=CreateVpnGateway
&Timestamp=2016-05-23T12:46:24Z
&Format=XML
&AccessKeyId=testid
&SignatureMethod=HMAC-SHA1
&SignatureNonce=3ee8c1b8-83d3-44af-a94f-4e0axxxxxxxxx
&Version=2014-05-26
&SignatureVersion=1.0
&Signature=XXXX%3D
```

3.Common parameters

Common request parameters

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

Common request parameters

Parameter	Type	Required?	Description
Format	String	No	The format of the response. Valid values: <i>JSON (default) XML</i>
Version	String	Yes	The version of the API. It uses the date format <code>YYYY-MM-DD</code> . Valid value: <i>2016-04-28</i>
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: <i>HMAC-SHA1</i>
Timestamp	String	Yes	The time at which the request is signed. It uses the format: <code>YYYY-MM-DDThh:mm:ssZ</code> . For example, <i>2013-01-10T12:00:00Z</i> .
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-AC049166F216</RequestId>
    <!--The returned result-->
  </Action+Response>
```

- JSON format

```
{
  "RequestId": "4C467B38-3910-447D-87BC-AC049166F216",
  /*The returned result*/
}
```

4. VPN Gateway

4.1. CreateVpnGateway

You can call this operation to create a VPN gateway.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	CreateVpnGateway	The operation that you want to perform. Set the value to: CreateVpnGateway .
Bandwidth	Integer	Yes	5	The public network bandwidth of the VPN gateway. Unit: Mbit/s. Valid values: 5, 10, 20, 50, 100, and 200.
RegionId	String	Yes	cn-hangzhou	The ID of the region where the VPN gateway is located. You can call DescribeRegions to retrieve a list of region IDs.
VpcId	String	Yes	vpc-bp1ub1yt9cvakoelej****	The ID of the VPC to which the VPN gateway belongs.
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 128 characters in length and can contain letters, Chinese characters, digits, underscores (_), and hyphens (-). It must start with a letter or Chinese character and cannot start with <code>http://</code> or <code>https://</code> .

Parameter	Type	Required	Example	Description
InstanceChargeType	String	No	Example for China site: PREPAY. Example for international site: POSTPAY	The billing method of the VPN gateway. Set the value to POSTPAY , which indicates the subscription billing method:(Pay-As-You-Go).
Period	Integer	No	1	The subscription period. Valid values: 1, 2, 3, 4, 5, 6, 7, 8, 9, 12, 24, and 36. Note If InstanceChargeType is set to PREPAY, this parameter is required.
AutoPay	Boolean	No	false	Specifies whether the bills for the VPN Gateway are paid automatically. Valid values: <ul style="list-style-type: none"> true: Bills are paid automatically. false (default): Bills are not paid automatically
EnableIpsec	Boolean	No	true	Specifies whether to enable the IPsec-VPN feature. Valid values: <ul style="list-style-type: none"> true(default): enables the IPsec-VPN feature. false: disables the IPsec-VPN feature.
EnableSsl	Boolean	No	true	Specifies whether to enable the SSL-VPN feature. Valid values: <ul style="list-style-type: none"> true: enables the SSL-VPN feature. false (default): disables the SSL-VPN feature.
SslConnections	Integer	No	5	The maximum number of clients that can be connected simultaneously. Valid values: 5,10, and20.

Parameter	Type	Required	Example	Description
VSwitchId	String	No	vsw-bp1j5miw2bae9s2vt****	The ID of the VSwitch to which the VPN gateway belongs.

Response parameters

Parameter	Type	Example	Description
Name	String	myVpn	The name of the VPN gateway.
OrderId	Long	20224940022015	The ID of the order. You can pay for the order in the console.
RequestId	String	54B48E3D-DF70-471B-AA93-08E683A1B457	The ID of the request.
VpnGatewayId	String	vpn-bp1q8bgx4xnkm2ogj****	The ID of the VPN gateway.

Examples

Sample requests

```
http(s)://vpc.aliyuncs.com/? Action=CreateVpnGateway
&Bandwidth=5
&RegionId=cn-hangzhou
&VpcId=vpc-bp1ub1yt9cvakoelj****
&<Common request parameters>
```

Sample success responses

XML format

```
<CreateVpnGatewayResponse>
  <Name>myVpn</Name>
  <VpnGatewayId>vpn-bp1q8bgx4xnkm2ogj****</VpnGatewayId>
  <RequestId>54B48E3D-DF70-471B-AA93-08E683A1B457</RequestId>
</CreateVpnGatewayResponse>
```

JSON format


```
{
  "CreateVpnGatewayResponse": {
    "Name": "myVpn",
    "VpnGatewayId": "vpn-bp1q8bgx4xnkm2ogj****",
    "RequestId": "54B48E3D-DF70-471B-AA93-08E683A1B457"
  }
}
```

Error codes

HTTP status code	Error code	Error message	Description
400	Resource.QuotaFull	The quota of resource is full	The error message returned because the resource quota has reached the upper limit.

For a list of error codes, visit the [API Error Center](#).

4.2. ModifyVpnGatewayAttribute

You can call this operation to modify the name and description of a VPN gateway.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	ModifyVpnGatewayAttribute	The operation that you want to perform. Set the value to ModifyVpnGatewayAttribute .
RegionId	String	Yes	cn-shanghai	The region ID of the VPN gateway. You can call the DescribeRegions operation to query the region ID.
VpnGatewayId	String	Yes	vpn-bp1q8bgx4xnkm2ogj****	The ID of the VPN gateway.

Parameter	Type	Required	Example	Description
ClientToken	String	No	02fb3da4-130e-11e9-8e44-0016e04115b	<p>The client token that is used to ensure the idempotence of the request.</p> <p>The value of this parameter is generated by a client. The value must be unique among different requests and must be 1 to 64 ASCII characters in length.</p>
Name	String	No	myvpn	<p>The name of the VPN gateway.</p> <p>The name must be 2 to 128 characters in length and start with a letter or Chinese character. It can contain letters, Chinese characters, digits, periods (.), underscores (_), and hyphens (-). The name cannot start with <code>http://</code> or <code>https://</code>.</p>
Description	String	No	VPN gateway	<p>The description of the VPN gateway.</p> <p>The description must be 2 to 256 characters in length and start with a letter or Chinese character. It cannot start with <code>http://</code> or <code>https://</code>.</p>
AutoPropagate	Boolean	No	true	<p>Specifies whether to automatically propagate BGP routes to the VPC. Valid values:</p> <ul style="list-style-type: none"> true: enables BGP route propagation. false: disables BGP route propagation.

Response parameters

Parameter	Type	Example	Description
VpnGatewayId	String	vpn-bp1q8bgx4xnkm2ogj****	The ID of the VPN gateway.
VpcId	String	vpc-bp1ub1yt9cvakoel***	The ID of the VPC to which the VPN gateway belongs.

Parameter	Type	Example	Description
VSwitchId	String	vsw- bp1y9ovl1cu9ou4tv ****	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 when the VPN gateway was created.
EndTime	Long	1495382400000	The time when the VPN gateway expires.
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 payment status of the VPN gateway.
AutoPropagate	Boolean	true	Indicates whether BGP routes are automatically propagated to the VPC. <ul style="list-style-type: none"> • true: BGP route propagation is enabled. • false: BGP route propagation is disabled.
EnableBgp	Boolean	true	The BGP status of the VPN gateway. <ul style="list-style-type: none"> • true: indicates that BGP is enabled. • false: indicates that BGP is disabled.
IntranetIp	String	172.16.104.xxx	The private IP address of the VPN gateway.
RequestId	String	54B48E3D-DF70- 471B-AA93- 08E683A1B457	The ID of the request.

Examples

Sample requests

```
https://vpc.aliyuncs.com/?Action=ModifyVpnGatewayAttribute
&RegionId=cn-shanghai
&VpnGatewayId=vpn-bp1q8bgx4xnkm2ogj****
&<Common request parameter>
```

Sample success response

XML format

```
<ModifyVpnGatewayAttributeResponse>
  <EnableBgp>true</EnableBgp>
  <RequestId>CA5C51BD-EF81-44FF-8311-5AC81ADECC9D</RequestId>
  <EndTime>1592236800000</EndTime>
  <VSwitchId>vsw-gw8m2k04wt3onzehf****</VSwitchId>
  <CreateTime>1589526435000</CreateTime>
  <AutoPropagate>true</AutoPropagate>
  <IntranetIp>10.0.0.251</IntranetIp>
  <Name>VPN11</Name>
  <VpcId>vpc-gw82wgx7a8fakx4co****</VpcId>
  <InternetIp>8.xx.xx.192</InternetIp>
  <VpnGatewayId>vpn-gw8bv722zwjht7ia****</VpnGatewayId>
  <Spec>5M</Spec>
</ModifyVpnGatewayAttributeResponse>
```

JSON format

```
{
  "EnableBgp": true,
  "RequestId": "CA5C51BD-EF81-44FF-8311-5AC81ADECC9D",
  "EndTime": 1592236800000,
  "VSwitchId": "vsw-gw8m2k04wt3onzehf****",
  "CreateTime": 1589526435000,
  "AutoPropagate": true,
  "IntranetIp": "10.0.0.251",
  "Name": "VPN11",
  "VpcId": "vpc-gw82wgx7a8fakx4co****",
  "InternetIp": "8.xx.xx.192",
  "VpnGatewayId": "vpn-gw8bv722zvjht7ia****",
  "Spec": "5M"
}
```

Error codes

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.	The error message returned because you are not authorized to perform this operation on the specified resource. You can apply for the permission and try again.
403	Forbidden	User not authorized to operate on the specified resource.	The error message returned because you are not authorized to perform this operation on the specified resource. To require the permission, submit a ticket.
404	InvalidVpnGateway InstanceId.NotFound	The specified vpn gateway instance id does not exist.	The error message returned because the specified VPN connection does not exist. You can check whether the configuration of the VPN connection is valid.
400	InvalidName	The name is not valid	The error message returned because the format of the specified name parameter is invalid.

HTTP status code	Error code	Error message	Description
400	InvalidDescription	The description is not valid	The error message returned because the format of the specified description parameter is invalid.

For a list of error codes, visit the [API Error Center](#).

4.3. 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: <i>DescribeVpnGateways</i>
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: <i>Normal FinancialLocked</i>
PageNumber	Integer	No	1	The number of pages to return. Default value: <i>1</i> .
PageSize	Integer	No	10	The number of rows per page. Maximum value: <i>50</i> . Default value: <i>10</i> .

Parameter	Type	Required?	Example value	Description
Status	String	No	init	The status of the VPN Gateway. Valid values: <ul style="list-style-type: none"> <i>init</i> <i>provisioning</i> <i>active</i> <i>updating</i> <i>deleting</i>
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.
↳Spec	String	5M	The peak bandwidth of the VPN Gateway.

Parameter	Type	Example value	Description
↳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=DescribeVpnGateways
&RegionId=cn-hangzhou
&<CommonParameters>
```

Response example

- XML format


```
<DescribeVpnGatewaysResponse>
  <PageNumber>1</PageNumber>
  <TotalCount>1</TotalCount>
  <PageSize>10</PageSize>
  <VpnGateways>
    <VpnGateway>
      <Status>active</Status>
      <VpnGatewayId>vpn-bp1q8bgx4xnkm2ogj0fiu</VpnGatewayId>
      <BusinessStatus>Normal</BusinessStatus>
      <Spec>5M</Spec>
      <CreateTime>1492753580000</CreateTime>
      <InternetIp>116.62.69.xxx</InternetIp>
      <EndTime>1495382400000</EndTime>
      <VSwitchId>vs-w-bp1y9ovl1cu9ou4tvma0l</VSwitchId>
      <VpcId>vpc-bp1ub1yt9cvakoelj1y9c</VpcId>
    </VpnGateway>
  </VpnGateways>
  <RequestId>DF11D6F6-E35A-41C3-9B20-6FC8A901FE65</RequestId>
</DescribeVpnGatewaysResponse>
```

- JSON format

```
{
  "PageNumber":1,
  "TotalCount":1,
  "PageSize":10,
  "VpnGateways":{
    "VpnGateway":[
      {
        "Status":"active",
        "VpnGatewayId":"vpn-bp1q8bgx4xnkm2ogj0fiu",
        "Spec":"5M",
        "BusinessStatus":"Normal",
        "CreateTime":1492753580000,
        "InternetIp":"116.62.69.xxx",
        "EndTime":1495382400000,
        "VSwitchId":"vsw-bp1y9ovl1cu9ou4tvma0l",
        "VpcId":"vpc-bp1ub1yt9cvakoelj1y9c"
      }
    ]
  },
  "RequestId":"B2CD1315-CA2B-47B1-9DA5-8F1D69C48E82"
}
```

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](#)

4.4. 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: <i>DescribeVpnGateways</i>
RegionId	String	Yes	cn-shanghai	The ID of the region to which the VPN Gateway belongs. To query the region ID, call <i>DescribeRegions</i> .
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-23rsxdfxxxxxxxxxxxx	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.

Parameter	Type	Example value	Description
Name	String	vpngatewayname	The name of the VPN Gateway.
Description	String	vpngatewaydescription	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.
ChargeType	String	PayByTraffic	The payment type.
IpssecVpn	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=DescribeVpnGateway
&RegionId=cn-shanghai
&VpnGatewayId=vpn-bp1q8bgx4xnkm2ogj0fiu
&<CommonParameters>
```

Response example

- XML format

```
<DescribeVpnGatewayResponse>
  <Status>active</Status>
  <VpnGatewayId>vpn-bp1q8bgx4xnkm2ogj0fiu</VpnGatewayId>
  <Spec>5M</Spec>
  <BusinessStatus>Normal</BusinessStatus>
  <RequestId>98C99F30-A3D2-42E1-AC75-0C882FBE92F7</RequestId>
  <CreateTime>1492753580000</CreateTime>
  <InternetIp>116.62.69.64</InternetIp>
  <EndTime>1495382400000</EndTime>
  <VSwitchId>vsw-bp1y9ovl1cu9ou4tvma0l</VSwitchId>
  <VpcId>vpc-bp1ub1yt9cvakoelj1y9c</VpcId>
</DescribeVpnGatewayResponse>
```

- JSON format

```
{
  "Status": "active",
  "VpnGatewayId": "vpn-bp1q8bgx4xnkm2ogj0fiu",
  "Spec": "5M",
  "BusinessStatus": "Normal",
  "RequestId": "E98A9651-7098-40C7-8F85-C818D1EBBA85",
  "CreateTime": 1492753580000,
  "InternetIp": "116.62.69.64",
  "EndTime": 1495382400000,
  "VSwitchId": "vsw-bp1y9ovl1cu9ou4tvma0l",
  "VpcId": "vpc-bp1ub1yt9cvakoelj1y9c"
}
```

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	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](#)

4.5. 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: <i>DeleteVpnGateway</i>
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-bp1q8bgx4xnm2ogj0fiu
&<CommonParameters>
```

Response example

- XML format

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

- JSON format

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

Error codes

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 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	InvalidVpnGatewayInstanceId.NotFound	The specified vpn gateway instance id does not exist.	The specified VPN Gateway does not exist.

HTTP status code	Error code	Error message	Description
403	ForbiddenRelease	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](#)

4.6. TagResources

Creates tags and attaches them to a specified resource at a time.

Descriptions

Tags are used to classify instances. Each tag is composed of a key-value pair. Before you attach a tag to an instance, make sure that the following requirements are met:

- The keys of tags that are attached to the same instance must be unique.
- After you create a tag, you must attach it to an instance.
- Tag information is not shared across regions.

For example, in the China (Shanghai) region, you cannot view tags created in the China (Hangzhou) region.

- Virtual Private Cloud (VPC) networks, routes tables, VSwitches and elastic IP addresses (EIPs) that are created under the same account and in the same region share tag information.

For example, if you have attached a tag to a VPC network, the tag is available to VSwitches, route tables, and EIPs under the same account and in the same region where the VPC network is created. You can directly select this tag from the editing page without the need to enter the tag again. You can modify the key and value of a tag, or remove a tag that is attached to an instance at any time. After you delete an instance, all tags that are attached to the instance are removed.

- You can attach up to 20 tags to each instance. Before you attach a tag to an instance, the system automatically checks the existing tags. If the maximum number of tags is reached, an error message is returned.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates a sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	TagResources	The operation that you want to perform. Set the value to TagResources .
RegionId	String	Yes	cn-hangzhou	The region ID of the resource.
ResourceId.N	RepeatList	Yes	vpc-bp16qjewdsunr41m1****	The ID of the resource. Valid values of N: 1 to 20.
ResourceType	String	Yes	VPC	The type of the resource. Valid values: <ul style="list-style-type: none"> • VPC: VPC network. • VSWITCH: VSwitch. • ROUTETABLE: route table. • EIP: EIP. • VpnGateway: VPN gateway.
Tag.N.Key	String	No	FinanceDept	The tag key. Valid values of N: 1 to 20. The tag key cannot be an empty string. The key must be 1 to 64 characters in length, and start with a letter or Chinese character. It can contain numbers, periods (.), underscores (_), and hyphens (-) and cannot start with <code>aliyun</code> or <code>acs:</code> . It cannot contain <code>http://</code> or <code>https://</code> .
Tag.N.Value	String	No	FinanceJoshua	The tag value of the resource. Valid values of N: 1 to 20. The tag value can be an empty string. The key must be 1 to 128 characters in length, and start with a letter or Chinese character. It can contain numbers, periods (.), underscores (_), and hyphens (-) and cannot start with <code>aliyun</code> or <code>acs:</code> . It cannot contain <code>http://</code> or <code>https://</code> .

Response parameters

Parameter	Type	Example	Description
RequestId	String	C46FF5A8-C5F0-4024-8262-B16B639225A0	The request ID.

Example

Sample requests

```
http(s)://vpc.aliyuncs.com/? Action=TagResources
&RegionId=cn-hangzhou
&ResourceId.1=vpc-bp16qjewdsunr41m1****
&ResourceType=VPC
&Tag.1.Key=FinanceDept
&Tag.1.Value=FinanceJoshua
&<Common request parameters>
```

Sample success responses

XML format

```
<TagResourcesResponse>
  <RequestId>C46FF5A8-C5F0-4024-8262-B16B639225A0</RequestId>
</TagResourcesResponse>
```

JSON format

```
{
  "RequestId": "C46FF5A8-C5F0-4024-8262-B16B639225A0"
}
```

Error codes

HttpCode	Error code	Error message	Description
403	Forbidden	User not authorized to operate on the specified resource.	The error message returned because you are not authorized to perform this operation on the specified resource. To acquire the required permissions, submit a ticket.

For a list of error codes, visit the [API Error Center](#).

4.7. ListTagResources

Queries tags that are attached to one or more resources.

Descriptions

- Set **ResourceId.N** or **Tag.N** that consists of **Tag.N.Key** and **Tag.N.Value** in the request to specify the query object.
- **Tag.N** is a resource tag that consists of a key-value pair. If you set only **Tag.N.Key**, tags that contain the specified key are returned. If you set only **Tag.N.Value**, an error message is returned.
- If you set **Tag.N** and **ResourceId.N** to filter tags, **ResourceId.N** must match all the specified tag keys or tag values.
- If you specify multiple key-value pairs, resources that contain these key-value pairs are returned.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates a sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	ListTagResources	The operation that you want to perform. Set the value to ListTagResources.
RegionId	String	Yes	cn-hangzhou	The region ID of the instance.
ResourceType	String	Yes	VPC	The type of the resource. Valid values: <ul style="list-style-type: none"> • VPC • VSWITCH: VSwitch. • ROUTETABLE: route table. • EIP: EIP. • VpnGateway: VPN gateway.
ResourceId.N	RepeatList	No	vpc-bp16qjewdsunr41m1****	The ID of the resource. Valid values of N: 1 to 20.

Parameter	Type	Required	Example	Description
Tag.N.Key	String	No	FinanceDept	The tag key of the resource. Valid values of N: 1 to 20. The tag key cannot be an empty string. The key must be 1 to 64 characters in length, and start with a letter or Chinese character. It can contain numbers, periods (.), underscores (_), and hyphens (-) and cannot start with aliyun or acs: . It cannot contain http:// or https:// .
Tag.N.Value	String	No	FinanceJoshua	The value of tag N that is attached to the resource. Valid values of N: 1 to 20. The tag value can be an empty string. The key must be 1 to 128 characters in length, and start with a letter or Chinese character. It can contain numbers, periods (.), underscores (_), and hyphens (-) and cannot start with aliyun or acs: . It cannot contain http:// or https:// .
NextToken	String	No	caeba0bbb2be03f84eb48b699f0a4883	The query token. Set this parameter to the NextToken parameter value that is returned in the last API call. If no subsequent queries are to be sent, you can leave the parameter empty.
MaxResults	Integer	No	50	The number of entries to return on each page. Valid values:20~100. Default value: 50.

Response parameters

Parameter	Type	Example	Description
NextToken	String	caeba0bbb2be03f84eb48b699f0a4883	The token required by the next query. If the NextToken parameter is empty, this indicates that no subsequent query is sent.

Parameter	Type	Example	Description
RequestId	String	DE65F6B7-7566-4802-9007-96F2494AC512	The request ID.
TagResources	Array of TagResource		Resources to which the specified tags are attached.
TagResource			
ResourceId	String	vpc-bp16qjewdsunr41m1****	The ID of the resource.
ResourceType	String	VPC	The type of the resource.
TagKey	String	FinanceDept	The tag key.
TagValue	String	FinanceJoshua	The tag value.

Examples

Sample requests

```
http(s)://[Endpoint]/? Action=ListTagResources
&RegionId=cn-hangzhou
&ResourceType=VPC
&ResourceId.1=vpc-bp16qjewdsunr41m1****
&<Common request parameters>
```

Sample success responses

XML format

```

<ListTagResourcesResponse>
  <TagResources>
    <TagResource>
      <ResourceType>VPC</ResourceType>
      <TagValue>aa</TagValue>
      <TagKey>aaa</TagKey>
      <ResourceId>vpc-wz9aml8mptq6fsnfm****</ResourceId>
    </TagResource>
  </TagResources>
  <NextToken></NextToken>
  <RequestId>F11AC96F-B8E6-48F8-95CC-F63E7D50F0D4</RequestId>
</ListTagResourcesResponse>

```

JSON format

```

{
  "TagResources": {
    "TagResource": [
      {
        "ResourceType": "VPC",
        "TagValue": "aa",
        "TagKey": "aaa",
        "ResourceId": "vpc-wz9aml8mptq6fsnfm****"
      }
    ]
  },
  "NextToken": "",
  "RequestId": "F11AC96F-B8E6-48F8-95CC-F63E7D50F0D4"
}

```

Error codes

HttpCode	Error codes	Error message	Description
403	Forbidden	User not authorized to operate on the specified resource.	The error message returned because you are not authorized to perform this operation on the specified resource. To acquire the required permissions, submit a ticket.

For a list of error codes, visit the [API Error Center](#).

4.8. UnTagResources

Removes tags from specified resources at a time.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	UnTagResources	The operation that you want to perform. Set the value to UntagResources .
RegionId	String	Yes	cn-hangzhou	The region ID of the resource.
ResourceId.N	RepeatList	Yes	vpc-bp16qjewdsunr41m1****	The ID of the resource. Valid values of N: 1 to 20.
ResourceType	String	Yes	VPC	The type of the resource. Valid values: <ul style="list-style-type: none"> VPC: VPC network. VSWITCH: VSwitch. ROUTETABLE: route table. EIP: EIP. VpnGateway: VPN gateway.
TagKey.N	RepeatList	No	FinanceDept	The key of the tag you want to remove. Valid values of N: 1 to 20. The tag value can be an empty string. The key must be 1 to 64 characters in length, and start with a letter or Chinese character. It can contain numbers, periods (.), underscores (_), and hyphens (-), but cannot start with <code>aliyun</code> or <code>acs:</code> . It cannot contain <code>http://</code> or <code>https://</code> .

Response parameters

Parameter	Type	Example	Description
RequestId	String	C46FF5A8-C5F0-4024-8262-B16B639225A0	The request ID.

Examples

Sample requests

```
http(s)://[Endpoint]/? Action=UntagResources
&RegionId=cn-hangzhou
&ResourceId.1=vpc-bp16qjewdsunr41m1****
&ResourceType=VPC
&<Common request parameters>
```

Sample success responses

XML format

```
<UntagResourcesResponse>
  <RequestId>C46FF5A8-C5F0-4024-8262-B16B639225A0</RequestId>
</UntagResourcesResponse>
```

JSON format

```
{
  "RequestId": "C46FF5A8-C5F0-4024-8262-B16B639225A0"
}
```

Error codes

HttpCode	Error code	Error message	Description
403	Forbidden	User not authorized to operate on the specified resource.	The error message returned because you are not authorized to perform this operation on the specified resource. To acquire the required permissions, submit a ticket.

For a list of error codes, visit the [API Error Center](#).

5. Customer gateway

5.1. CreateCustomerGateway

You can call this operation to create a customer gateway.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	CreateCustomerGateway	The operation that you want to perform. Set the value to CreateCustomerGateway .
IpAddress	String	Yes	116.xx.xx.12	The public IP address of the VPN gateway in the on-premises data center.
RegionId	String	Yes	cn-shanghai	The region ID of the customer gateway. You can call the DescribeRegions operation to query the region ID.
ClientToken	String	No	02fb3da4-130e-11e9-8e44-0016e04115b	The client token that is used to ensure 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.
Name	String	No	Gateway	The name of the customer gateway. The name must be 2 to 128 characters in length and can contain letters, Chinese characters, digits, periods (.), underscores (_), and hyphens (-). The value cannot start with <code>http://</code> or <code>https://</code> .

Parameter	Type	Required	Example	Description
Description	String	No	Gateway	The description of the customer gateway. The description must be 2 to 256 characters in length. It must start with a letter or Chinese character and cannot start with <code>http://</code> or <code>https://</code> .
Asn	String	No	10001	The autonomous system number of the on-premises data center.

Response parameters

Parameter	Type	Example	Description
CustomerGatewayId	String	cgw-bp1aw0a5nfff03xp1****	The ID of the customer gateway.
IpAddress	String	101.xx.xx.12	The public IP address of the VPN Gateway in the on-premises data center.
Name	String	test	The name of the customer gateway.
Description	String	test	The description of the customer gateway.
CreateTime	Long	1493363486000	The time when the customer gateway was created.
RequestId	String	cgw-bp1aw0a5nfff03xp1pcqc	The ID of the request.

Examples

Sample requests

```
https://vpc.aliyuncs.com/?Action=CreateCustomerGateway
&IpAddress=116.xx.xx.12
&RegionId=cn-shanghai
&<Common request parameter>
```

Sample success response

XML format

```
<CreateCustomerGatewayResponse>
  <CustomerGatewayId>cgw-bp1aw0a5nfff03xp****</CustomerGatewayId>
  <RequestId>185E81B1-3916-4667-B48F-C52409B33F2B</RequestId>
  <CreateTime>1493363486000</CreateTime>
  <IpAddress>101.xx.xx.12</IpAddress>
</CreateCustomerGatewayResponse>
```

JSON format

```
{
  "CustomerGatewayId": "cgw-bp1jrawp82av6bws9****",
  "CreateTime": 1493363599000,
  "RequestId": "D32B3C26-6C6C-4988-93E9-D2A6444CE6AE",
  "IpAddress": "101.xx.xx.12"
}
```

Error codes

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.	The error message returned because you are not authorized to perform this operation on the specified resource. You can apply for the permission and try again.
403	Forbidden	User not authorized to operate on the specified resource.	The error message returned because you are not authorized to perform this operation on the specified resource. To require the permission, submit a ticket.
400	InvalidIpAddress.AlreadyExist	Specified IpAddress is already exist.	The error message returned because this IP address already exists, The IP addresses must be unique in the same region.
400	InvalidIpAddress.WrongFormat	Specified IpAddress is invalid.	The error message returned because the specified IP address is invalid.

HTTP status code	Error code	Error message	Description
400	InvalidName	The name is not valid	The error message returned because the format of the specified name parameter is invalid.
400	InvalidDescription	The description is not valid	The error message returned because the format of the description is invalid.
400	Resource.QuotaFull	The quota of resource is full	The error message returned because the resource quota has reached the upper limit.

For a list of error codes, visit the [API Error Center](#).

5.2. 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: <i>ModifyCustomerGatewayAttribute</i>
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.

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	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 <code>http://</code> or <code>https://</code> .
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 <code>http://</code> or <code>https://</code> .

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 gateway was created.

Parameter	Type	Example value	Description
RequestId	String	E61293C8-AF07-4E87-A272-542680038F93	The ID of the request.

Examples

Request example

```
https://vpc.aliyuncs.com/?Action=ModifyCustomerGatewayAttribute
&CustomerGatewayId=vpn-bp1q8bgx4xnkm2ogj0fiu
&RegionId=cn-shanghai
&Name=test
&<CommonParameters>
```

Response example

- XML format

```
<ModifyCustomerGatewayAttributeResponse>
  <CustomerGatewayId>cgw-bp1pvpl9r9adju6l5nxck</CustomerGatewayId>
  <RequestId>E61293C8-AF07-4E87-A272-542680038F93</RequestId>
  <CreateTime>1492747187000</CreateTime>
  <IpAddress>139.196.32.167</IpAddress>
</ModifyCustomerGatewayAttributeResponse>
```

- JSON format

```
{
  "CustomerGatewayId": "cgw-bp1pvpl9r9adju6l5nxck",
  "CreateTime": "1492747187000",
  "RequestId": "8AA5CE21-2E6A-4530-BDF5-F055849476E6",
  "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.

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	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.
400	InvalidDescription	The description is not valid	The description format is invalid.

See common error codes

5.3. 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	DescribeCustomerGateways	The name of this action. Value: <i>DescribeCustomerGateways</i>
RegionId	String	Yes	cn-shanghai	The ID of the region to which the customer gateway belongs. To query the region ID, call <code>DescribeRegions</code> .
CustomerGatewayId	String	No	vpn-bp1q8bgx4xnkm2ogj0fiu	The ID of the customer gateway.
PageNumber	Integer	No	1	The number of pages to return. Default value: <i>1</i> .

Parameter	Type	Required?	Example value	Description
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.
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=DescribeCustomerGateways
&RegionId=cn-shanghai
&<CommonParameters>
```


Response example

- XML format

```
<DescribeCustomerGatewaysResponse>
  <PageNumber>1</PageNumber>
  <TotalCount>1</TotalCount>
  <PageSize>10</PageSize>
  <RequestId>5BE01CD7-5A50-472D-AC14-CA181C5C03BE</RequestId>
  <CustomerGateways>
    <CustomerGateway>
      <Name>test</Name>
      <CustomerGatewayId>cgw-bp1pvpl9r9adju6l5nxck</CustomerGatewayId>
      <CreateTime>1492747187000</CreateTime>
      <IpAddress>139.196.32.xxx</IpAddress>
    </CustomerGateway>
  </CustomerGateways>
</DescribeCustomerGatewaysResponse>
```

- JSON format

```
{
  "PageNumber":1,
  "TotalCount":1,
  "PageSize":10,
  "RequestId":"E82612A9-CB90-4D7E-B394-1DB7F6509B29",
  "CustomerGateways":{
    "CustomerGateway":[
      {
        "CustomerGatewayId":"cgw-bp1pvpl9r9adju6l5nxck",
        "Name":"test",
        "CreateTime":1492747187000,
        "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](#)

5.4. 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: <i>DescribeCustomerGateway</i>
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 .

Response parameters

Parameter	Type	Example value	Description
CustomerGatewayId	String	cgw-bp1pvpl9r9adju6l5nxck	The ID of the customer gateway.

Parameter	Type	Example value	Description
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=DescribeCustomerGateway
&CustomerGatewayId=vpn-bp1q8bgx4xnkm2ogj0fiu
&RegionId=cn-shanghai
&<CommonParameters>
```

Response example

- XML format

```
<DescribeCustomerGatewayResponse>
  <Name>test</Name>
  <CustomerGatewayId>cgw-bp1pvpl9r9adju6l5nxck</CustomerGatewayId>
  <CreateTime>1492747187000</CreateTime>
  <RequestId>99506ECB-218F-45A5-AE8E-79518451F615</RequestId>
  <IpAddress>139.196.32.xxx</IpAddress>
</DescribeCustomerGatewayResponse>
```

- JSON format

```
{
  "Name": "test",
  "CustomerGatewayId": "cgw-bp1pvpl9r9adju6l5nxck",
  "CreateTime": 1492747187000,
  "RequestId": "A0457BC9-6C0F-4437-AB9D-FB2EABC1D6A2",
  "IpAddress": "139.196.32.xxx"
}
```

Error codes

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 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](#)

5.5. DeleteCustomerGateway

Deletes a customer gateway.

Make the API call

You can use [OpenAPI Explorer](#) to make API calls, search for API calls, perform debugging, and generate SDK example code.

Request parameters

Parameter	Type	Required?	Example value	Description
Action	String	Yes	DeleteCustomerGateway	The name of this action. Value: DeleteCustomerGateway
CustomerGatewayId	String	Yes	vpn-bp1q8bgx4xnkm2ogj****	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 .
ClientToken	String	No	02fb3da4-130e-11e9-8e44-0016e04115b	The client token that guarantees the idempotence of the request. The value of this parameter is generated by the client. Make sure that this value is unique among different requests and does not exceed 64 ASCII characters.

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-bp1q8bgx4xnkm2ogj****
&RegionId=cn-shanghai
&<CommonParameters>
```

Response example

XML format

```
<DeleteCustomerGatewayResesponse>
  <RequestId>606998F0-B94D-48FE-8316-ACA81BB230DA</RequestId>
</DeleteCustomerGatewayResesponse>
```

JSON format

```
{
  "RequestId":"606998F0-B94D-48FE-8316-ACA81BB230DA"
}
```

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 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	InvalidCustomerGatewayInstanceId.NotFound	The specified customer gateway instance id does not exist.	The specified instance does not exist.

For a list of error codes, visit the [API Error Center](#).

6. VPN Gateway routes

6.1. CreateVpnRouteEntry

Creates a VPN destination route.

Make the API call

You can use [OpenAPI Explorer](#) to make API calls, search for API calls, perform debugging, and generate SDK example code.

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 entry.
PublishVpc	Boolean	Yes	true	Indicates whether to publish the destination route to the VPC. Valid values: <ul style="list-style-type: none"> true: Publish the destination route to the VPC. false: Do not publish the destination route 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. 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	mytest	The description of the VPN destination route.
OverlayMode	String	No	Ipsec	The overlay mode.

Response parameters

Parameter	Type	Example value	Description
RequestId	String	5BE01CD7-5A50-472D-AC14-CA181C5C03BE	The ID of the request.
VpnInstanceId	String	vpn-bp1cmw7jh1nfe43m9****	The ID of the VPN Gateway.
RouteDest	String	10.0.0.0/24	The destination CIDR block of the destination route.
NextHop	String	vco-bp15oes1py4i66rmj****	The next hop of the destination route.
Weight	Integer	0	The weight of the destination route. Valid values: 0 100.
OverlayMode	String	Ipsec	The overlay mode.
Description	String	mytest	The description of the VPN destination route.
State	String	Published	The status of the VPN destination route.

Parameter	Type	Example value	Description
CreateTime	Long	1492747187000	The time when the VPN destination route was created.

Examples

Request example

```
http(s)://[Endpoint]/? Action=CreateVpnRouteEntry
&NextHop=vco-bp15oes1py4i66rmd****
&PublishVpc=true
&RegionId=cn-hangzhou
&RouteDest=10.0.0.0/24
&VpnGatewayId=vpn-bp1a3kjiq9legfx****
&Weight=0
&<CommonParameters>
```

Response example

XML format

```
<CreateVpnRouteEntryResponse>
  <RouteDest>10.0.0.0/24</RouteDest>
  <VpnInstanceId>vpn-bp1cmw7jh1nfe43m9****</VpnInstanceId>
  <OverlayMode>Ipsec</OverlayMode>
  <State>published</State>
  <Weight>100</Weight>
  <CreateTime>1563873294331</CreateTime>
  <NextHop>vco-bp1tui07ob10fmuro****</NextHop>
  <RequestId>EE4C2417-9437-4333-BDEB-8493F7AA7258</RequestId>
</CreateVpnRouteEntryResponse>
```

JSON format

```
{
  "RouteDest": "10.0.0.0/24",
  "VpnInstanceId": "vpn-bp1cmw7jh1nfe43m9****",
  "OverlayMode": "Ipsec",
  "State": "published",
  "Weight": 100,
  "CreateTime": 1563873294331,
  "NextHop": "vco-bp1tui07ob10fmuro****",
  "RequestId": "CB2793A8-845F-444C-8E93-76F1BBDF9C78"
}
```

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 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	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](#).

6.2. CreateVpnPbrRouteEntry

Creates 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	CreateVpnPbrRouteEntry	The name of this action. Value: CreateVpnPbrRouteEntry .
NextHop	String	Yes	vco-bp15oes1py4i66rmd****	The next hop of the policy route.
PublishVpc	Boolean	Yes	true	Indicates whether to publish the policy route to the VPC. Valid values: <ul style="list-style-type: none"> true: The policy route is published to the VPC. false: The policy route is not published to the VPC.
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 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.
OverlayMode	String	No	Ipsec	The overwrite mode.

Response parameters

Parameter	Type	Example value	Description
CreateTime	Long	1492747187000	The time when the VPN policy route was created.
NextHop	String	vco-bp15oes1py4i66rm d****	The next hop of the policy 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 policy route.
RouteSource	String	192.168.1.0/24	The source CIDR block of the policy route.
State	String	normal	The status of the policy route. Valid values: <ul style="list-style-type: none"> published: The policy route is published. normal: The policy route is not published.
VpnInstanceId	String	vpn-bp1cmw7jh1nfe43 m9****	The ID of the VPN Gateway.
Weight	Integer	0	The weight of the policy route. Valid values: 0 100.

Examples

Request example

```
http(s)://[Endpoint]/? Action=CreateVpnPbrRouteEntry
&NextHop=vco-bp15oes1py4i66rmd****
&PublishVpc=true
&RegionId=cn-hangzhou
&RouteDest=10.0.0.0/24
&RouteSource=192.168.1.0/24
&VpnGatewayId=vpn-bp1a3kjjiiq9legfx****
&Weight=0
&<CommonParameters>
```

Response example

XML format

```
<CreateVpnPbrRouteEntryResponse>
  <RouteDest>10.0.0.0/24</RouteDest>
  <RouteSource>192.168.1.0/24</RouteSource>
  <VpnInstanceId>vpn-bp1cmw7jh1nfe43m9****</VpnInstanceId>
  <OverlayMode>Ipsec</OverlayMode>
  <State>published</State>
  <Weight>100</Weight>
  <CreateTime>1563873294331</CreateTime>
  <NextHop>vco-bp1tui07ob10fmuro****</NextHop>
</CreateVpnPbrRouteEntryResponse>
```

JSON format

```
{
  "RouteDest": "10.0.0.0/24",
  "VpnInstanceId": "vpn-bp1cmw7jh1nfe43m9****",
  "OverlayMode": "Ipsec",
  "Weight": 100,
  "State": "published",
  "NextHop": "vco-bp1tui07ob10fmuro****",
  "CreateTime": 1563873294331,
  "RouteSource": "192.168.1.0/24"
}
```

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](#).

6.3. 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.

Parameter	Type	Required?	Example value	Description
PublishVpc	Boolean	Yes	true	Indicates whether to publish the VPN route to the VPC. Valid values: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> pbr: policy route. dbr: destination route.
VpnGatewayId	String	Yes	vpn-bp1a3kqjiiq9legfx****	The ID of the VPN Gateway.
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-8E93-76F1BBDF9C78"
}

```

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.

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.

For a list of error codes, visit the [API Error Center](#).

6.4. 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.

Parameter	Type	Example value	Description
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.
CreateTime	Long	1492747187000	The time when the VPN route was created.
NextHop	String	vco-bp15oes1py4i66rm d****	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-bp1cmw7jh1nfe43 m9****	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=DescribeVpnRouteEntries
&RegionId=cn-hangzhou
&VpnGatewayId=vpn-bp1a3kqjiiq9legfx****
&<CommonParameters>
```

Response example

XML format

```
<DescribeVpnRouteEntriesResponse>
  <PageNumber>1</PageNumber>
  <TotalCount>1</TotalCount>
  <VpnRouteEntries>
    <VpnRouteEntry>
      <RouteDest>10.0.0.0/24</RouteDest>
      <VpnInstanceId>vpn-bp1cmw7jh1nfe43m9****</VpnInstanceId>
      <State>normal</State>
      <Weight>100</Weight>
      <CreateTime>1563874074000</CreateTime>
      <NextHop>vco-bp1tui07ob10fmuro****</NextHop>
    </VpnRouteEntry>
  </VpnRouteEntries>
  <PageSize>10</PageSize>
  <RequestId>BF3995A6-FA4F-4C74-B90F-89ECF4BFF4D5</RequestId>
</DescribeVpnRouteEntriesResponse>
```

JSON format

```
{
  "PageNumber":1,
  "TotalCount":1,
  "PageSize":10,
  "VpnRouteEntries":{
    "VpnRouteEntry":[
      {
        "RouteDest":"10.0.0.0/24",
        "VpnInstanceId":"vpn-bp1cmw7jh1nfe43m9****",
        "Weight":100,
        "State":"normal",
        "NextHop":"vco-bp1tui07ob10fmuro****",
        "CreateTime":1563874074000
      }
    ]
  },
  "RequestId":"BF3995A6-FA4F-4C74-B90F-89ECF4BFF4D5"
}
```

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](#).

6.5. DescribeVpnPbrRouteEntries

Queries 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	DescribeVpnPbrRouteEntries	The name of this action. Value: DescribeVpnPbrRouteEntries .
RegionId	String	Yes	cn-hangzhou	The region of the VPN policy route. To query the region ID, call DescribeRegions .
VpnGatewayId	String	Yes	vpn-bp1a3kqjiiq9legf x****	The ID of the VPN Gateway.
PageNumber	Integer	No	10	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	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.
TotalCount	Integer	12	The number of queried entries.
VpnPbrRouteEntries			The details of the VPN policy route.
CreateTime	Long	1492747187000	The time when the policy route was created.
NextHop	String	vco-bp15oes1py4i66rm d****	The next hop of the policy route.
RouteDest	String	10.0.0.0/24	The destination CIDR block of the policy route.
RouteSource	String	192.168.0.0/24	The source CIDR block of the policy route.
State	String	published	The status of the VPN policy route. Valid values: <ul style="list-style-type: none"> published: The VPN policy route is published. normal: The VPN policy route is not published.
VpnInstanceId	String	vpn-bp1cmw7jh1nfe43 m9****	The ID of the VPN Gateway.
Weight	Integer	0	The weight of the policy route. Valid values: 0 100.

Examples

Request example

```
http(s)://[Endpoint]/? Action=DescribeVpnPbrRouteEntries
&RegionId=cn-hangzhou
&VpnGatewayId=vpn-bp1a3kqjiiq9legfx****
&<CommonParameters>
```

Response example

XML format

```
<DescribeVpnPbrRouteEntriesResponse>
  <PageNumber>1</PageNumber>
  <TotalCount>1</TotalCount>
  <RequestId>E5D94DC7-AEC7-4E73-A203-61B04D1F1160</RequestId>
  <PageSize>10</PageSize>
  <VpnPbrRouteEntries>
    <VpnPbrRouteEntry>
      <RouteDest>10.0.0.0/32</RouteDest>
      <VpnInstanceId>vpn-bp1cmw7jh1nfe43m9****</VpnInstanceId>
      <State>published</State>
      <Weight>100</Weight>
      <CreateTime>1563881012000</CreateTime>
      <NextHop>vco-bp1tui07ob10fmuro****</NextHop>
      <RouteSource>11.0.0.0/32</RouteSource>
    </VpnPbrRouteEntry>
  </VpnPbrRouteEntries>
</DescribeVpnPbrRouteEntriesResponse>
```

JSON format

```

{
  "PageNumber":1,
  "TotalCount":1,
  "PageSize":10,
  "RequestId":"E5D94DC7-AEC7-4E73-A203-61B04D1F1160",
  "VpnPbrRouteEntries":{
    "VpnPbrRouteEntry":[
      {
        "RouteDest":"10.0.0.0/32",
        "VpnInstanceId":"vpn-bp1cmw7jh1nfe43m9****",
        "Weight":100,
        "State":"published",
        "RouteSource":"11.0.0.0/32",
        "NextHop":"vco-bp1tui07ob10fmuro****",
        "CreateTime":1563881012000
      }
    ]
  }
}

```

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](#).

6.6. ModifyVpnRouteEntryWeight

Modifies the weight of 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	ModifyVpnRouteEntryWeight	The name of this action. Value: ModifyVpnRouteEntryWeight .
NewWeight	Integer	Yes	100	The new weight. Valid values: 0 100.
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 set before the VPN destination route is modified. 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.
OverlayMode	String	No	Ipssec	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=ModifyVpnRouteEntryWeight
&NewWeight=100
&NextHop=vco-bp15oes1py4i66rmd****
&RegionId=cn-hangzhou
&RouteDest=10.0.0.0/24
&VpnGatewayId=vpn-bp1a3kjjiiq9legfx****
&Weight=0
&<CommonParameters>
```

Response example

XML format

```
<ModifyVpnRouteEntryWeightResponse>
  <RequestId>5BE01CD7-5A50-472D-AC14-CA181C5C03BE</RequestId>
</ModifyVpnRouteEntryWeightResponse>
```

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.
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.

HTTP status code	Error code	Error message	Description
------------------	------------	---------------	-------------

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](#).

6.7. 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.

Parameter	Type	Required?	Example value	Description
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.
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=ModifyVpnPbrRouteEntryWeight
&NewWeight=100
&NextHop=vco-bp15oes1py4i66rmd****
&RegionId=cn-hangzhou
&RouteDest=10.0.0.0/24
&RouteSource=192.168.1.0/24
&VpnGatewayId=vpn-bp1a3kqjiiq9legfx****
&Weight=100
&<CommonParameters>
```

Response example

XML format

```
<ModifyVpnPbrRouteEntryWeightResponse>
  <RequestId>5BE01CD7-5A50-472D-AC14-CA181C5C03BE</RequestId>
</ModifyVpnPbrRouteEntryWeightResponse>
```

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](#).

6.8. DeleteVpnRouteEntry

Deletes a VPN destination route.

Make the API call

You can use [OpenAPI Explorer](#) to make API calls, search for API calls, perform debugging, and generate SDK example code.

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 entry.
VpnGatewayId	String	Yes	vpn-bp1a3kqjiiq9legfx****	The ID of the VPN Gateway.
Weight	Integer	Yes	0	The weight of the destination route entry. Valid values: 0 100.
ClientToken	String	No	d7d24a21-f4ba-4454-9173-b3828dae492b	The client token that guarantees 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	Ipssec	The tunneling protocol. Valid value: Ipssec (IPsec tunneling protocol).

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 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	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.

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.

For a list of error codes, visit the [API Error Center](#).

6.9. 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 .
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.

Parameter	Type	Required?	Example value	Description
ClientToken	String	No	d7d24a21-f4ba-4454-9173-b3828dae492b	<p>The client token used to guarantee the idempotence of the request.</p> <p>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.</p>

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=DeleteVpnPbrRouteEntry
&NextHop=vco-bp15oes1py4i66rmd****
&RegionId=cn-hangzhou
&RouteDest=10.0.0.0/24
&RouteSource=192.168.1.0/24
&VpnGatewayId=vpn-bp1a3kjjq9legfx****
&Weight=0
&<CommonParameters>

```

Response example

XML format

```

<DeleteVpnPbrRouteEntryResponse>
  <RequestId>5BE01CD7-5A50-472D-AC14-CA181C5C03BE</RequestId>
</DeleteVpnPbrRouteEntryResponse>

```

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.
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](#).

7. IPsec-VPN

7.1. CreateVpnConnection

You can call this operation to create an IPsec VPN connection.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	CreateVpnConnection	The operation that you want to perform. Set the value to CreateVpnConnection.
CustomerGatewayId	String	Yes	vpn-bp1q8bgx4xnk**	The ID of the customer gateway.
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 2 negotiations. Separate multiple CIDR blocks with commas (.). Example: 192.168.1.0/24,192.168.2.0/24.
RegionId	String	Yes	cn-shanghai	The region ID of the IPsec VPN connection. You can call the DescribeRegions operation to query the region ID.
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 2 negotiations. Separate multiple CIDR blocks with commas (.). Example: 192.168.3.0/24,192.168.4.0/24.
VpnGatewayId	String	Yes	vpn-bp1q8bgx4xnk****	The ID of the VPN gateway.

Parameter	Type	Required	Example	Description
ClientToken	String	No	02fb3da4-130e-11e9-8e44-001****	<p>The client token that is used to guarantee the idempotence of the request.</p> <p>This parameter value is generated by the client and must be unique. The token must be 1 to 64 ASCII characters in length.</p>
Name	String	No	IPsec	<p>The name of the IPsec VPN connection.</p> <p>The name must be 2 to 128 characters in length and can contain letters, Chinese characters, digits, periods (.), underscores (_), and hyphens (-). It must start with a letter or Chinese character and cannot start with <code>http://</code> or <code>https://</code>.</p>
EffectImmediately	Boolean	No	false	<p>Specifies whether to delete a negotiated IPsec VPN tunnel and initiate a negotiation again. Valid values:</p> <ul style="list-style-type: none"> true: initiates negotiations after the configuration is completed. false (default): initiates negotiations when inbound traffic is detected.

Parameter	Type	Required	Example	Description
IkeConfig	String	No	<pre>{"IkeVersion":"ikev1","IkeMode":"main","IkeEncAlg":"aes","IkeAuthAlg":"sha1","IkePfs":"group2","IkeLifetime":86400}</pre>	<p>The configurations of Phase 1 negotiations:</p> <ul style="list-style-type: none"> • IkeConfig.Psk: the pre-shared key used for authentication between the IPsec VPN gateway and the customer gateway. By default, a random value is generated. You can also specify a pre-shared key. The description can be up to 100 characters in length. • 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 aggressive. Default value: main. • IkeConfig.IkeEncAlg: the encryption algorithm used in Phase 1 negotiations. Valid values: AES AES192 AES256 DES 3DES. Default value: AES. • IkeConfig.IkeAuthAlg: the authentication algorithm used in Phase 1 negotiations. Valid values: MD5 SHA1. Default value: MD5. • IkeConfig.IkePfs: the Diffie-Hellman key exchange algorithm used in Phase 1 negotiations. Valid values: Group1 Group2 Group5 Group14 Group24. Default value: Group2. • IkeConfig.IkeLifetime: the SA lifetime as a result of Phase 1 negotiations. Valid values: 0 to 86400. Unit: seconds. Default value: 86400. • IkeConfig.LocalIdIPsec: the identifier of the VPN gateway. This parameter can contain up to 100 characters. The default value is the public IP address of the VPN gateway. • IkeConfig.Remoteld: the identifier of the customer gateway. This parameter can contain up to 100 characters. The default value is the public IP address of the

Parameter	Type	Required	Example	Description
IpsecConfig	String	No	<pre>{"IpsecEncAlg": "aes", "IpsecAuthAlg": "sha1", "IpsecPfs": "group2", "IpsecLifetime": 86400}</pre>	<p>customer gateway.</p> <p>The configurations of Phase 2 negotiations:</p> <ul style="list-style-type: none"> IpsecConfig.IpsecEncAlg: the encryption algorithm used in Phase 2 negotiations. Valid values: AES AES192 AES256 DES 3DES. Default value: AES. IpsecConfig.IpsecAuthAlg: the authentication algorithm used in Phase 2 negotiations. Valid values: MD5 SHA1. Default value: MD5. IpsecConfig.IpsecPfs: the Diffie-Hellman group for perfect forward secrecy (PFS). The Diffie-Hellman key exchange algorithm used in Phase 2 negotiations. Valid values: Group1 Group2 Group5 Group14 Group24. Default value: Group2. IpsecConfig.IpsecLifetime: the SA lifetime value as a result of Phase 2 negotiations. Valid values: 0 to 86400. Unit: seconds. Default value: 86400.
HealthCheckConfig	String	No	<pre>{"enable": "true", "dip": "192.168.xx.2", "sip": "192.168.xx.2", "interval": "3", "retry": "3"}</pre>	<p>The health check configurations:</p> <ul style="list-style-type: none"> HealthCheckConfig.enable: specifies whether to enable health checks. Valid values: true false (default) HealthCheckConfig.dip: the destination IP address configured for health checks. HealthCheckConfig.sip: the source IP address configured for health checks. HealthCheckConfig.interval: the interval between health check retries. Unit: seconds. HealthCheckConfig.retry: the maximum number of health check retries.

Parameter	Type	Required	Example	Description
AutoConfigRoute	Boolean	No	true	<p>Specifies whether to automatically configure routes. Valid values:</p> <ul style="list-style-type: none"> true (default): Routes are automatically configured. false: Routes are not automatically configured.
EnableDpd	Boolean	No	true	<p>Specifies whether to enable dead peer detection (DPD). Valid values:</p> <ul style="list-style-type: none"> true(Default): enables the DPD feature. The IPsec initiator sends DPD packets to verify the existence and availability of IPsec peers. If no feedback is received from the peer within a specified period of time, the IPsec initiator will disconnect the IPsec tunnel. ISAKMP SA and the corresponding IPsec SA are deleted. The security tunnel is also deleted. false: disables the DPD feature. The IPsec initiator does not send DPD packets.
EnableNatTraversal	Boolean	No	true	<p>Specifies whether to enable the NAT traversal feature. Valid values:</p> <ul style="list-style-type: none"> true(Default): enables the NAT traversal feature. After NAT traversal is enabled, the initiator does not need to check the UDP ports during IKE negotiations and can automatically discover NAT gateway devices along the VPN tunnel. false: disables the NAT traversal feature.

Parameter	Type	Required	Example	Description
BgpConfig	String	No	<pre>{"EnableBgp": "true", "LocalAsn": "10001", "TunnelCidr": "169.254.11.0/30", "LocalBgpIp": "169.254.11.1"}</pre>	<p>BGP configurations:</p> <ul style="list-style-type: none"> BgpConfig.EnableBgp: specifies whether to enable Border Gateway Protocol (BGP). Valid values: true false. BgpConfig.LocalAsn: the local autonomous system number. BgpConfig.TunnelCidr: the IPsec tunnel CIDR block. The mask length of the CIDR block in 169.254.0.0/16 is 30. LocalBgpIp: the local BGP IP address of. This IP address is within the IPsec tunnel CIDR block.

Response parameters

Parameter	Type	Example	Description
VpnConnectionId	String	vco-bp15oes1py4i6****	The ID of the IPsec VPN connection.
CreateTime	Long	1544666102000	The time when the IPsec VPN connection was created.
Name	String	test	The name of the IPsec VPN connection.
RequestId	String	082AD562-B8DB-4BB2-861F-DA1FCA01FD76	The ID of the request.

Examples

Sample requests:

```
http(s)://[Endpoint]/? Action=CreateVpnConnection
&CustomerGatewayId=vpn-bp1q8bgx4xnk****
&LocalSubnet=1.1.1.0/24,1.1.2.0/24
&RegionId=cn-shanghai
&RemoteSubnet=1.1.1.0/24,1.1.2.0/24
&VpnGatewayId=vpn-bp1q8bgx4xnkm****
&<Common request parameter>
```

Sample success response

XML format

```
<CreateVpnConnectionResponse>
  <VpnConnectionId>vco-bp1bbi27hojx8****</VpnConnectionId>
  <CreateTime>1493363928000</CreateTime>
</CreateVpnConnectionResponse>
```

JSON format

```
{
  "CreateTime": 1544666102000,
  "VpnConnectionId": "vco-bp15oes1py4i6****"
}
```

Error codes

HttpCode	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.	The error message returned because you are not authorized to perform this operation on the specified resource. You can apply for the permission and try again.
403	Forbidden	User not authorized to operate on the specified resource.	The error message returned because you are not authorized to perform this operation on the specified resource. To require the permission, submit a ticket.
400	Resource.QuotaFull	The quota of resource is full	The error message returned because the resource quota has reached the upper limit.
404	InvalidCustomerGatewayInstanceId.NotFound	The specified customer gateway instance id does not exist.	The error message returned because the specified instance ID does not exist.
404	InvalidVpnGatewayInstanceId.NotFound	The specified vpn gateway instance id does not exist.	The error message returned because the specified VPN gateway does not exist. You can check whether the configuration of the VPN connection is valid.
400	InvalidVpnConnection.AlreadyExists	Vpn connection already exists.	The error message returned because the VPN connection already exists.

HttpCode	Error code	Error message	Description
400	VpnGateway.Configuring	The specified service is configuring.	The error message returned because the specified service is being configured. Try again later.
400	VpnGateway.FinancialLocked	The specified service is financial locked.	The error message returned because the service is overdue. Add funds before you enable the service.
400	QuotaExceeded.PolicyBasedRoute	The maximum number of policy-based routes is exceeded. Existing routes: %s. Routes to be created: %s. Maximum routes: %s.	The error message returned because the number of policy-based routing entries has reached the upper limit. The maximum number of entries that you can create is %s. The number of existing entries is %s. You are now creating %s entries.

For a list of error codes, visit the [API Error Center](#).

7.2. ModifyVpnConnectionAttribute

You can call this operation to modify the configuration of an IPsec VPN connection.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	ModifyVpnConnectionAttribute	The operation that you want to perform. Set the value to ModifyVpnConnectionAttribute .
RegionId	String	Yes	cn-shanghai	The region ID of the IPsec VPN connection. You can call the DescribeRegions operation to query the region ID.
VpnConnectionId	String	Yes	vco-bp1bbi27hojx80nck****	The name of the IPsec VPN connection.

Parameter	Type	Required	Example	Description
ClientToken	String	No	02fb3da4-130e-11e9-8e44-0016e04115b	<p>The client token that is used to ensure the idempotence of the request.</p> <p>The value of this parameter is generated by a client. The value must be unique among different requests and must be 1 to 64 ASCII characters in length.</p>
Name	String	No	IPsec	<p>The name of the IPsec VPN connection.</p> <p>The name must be 2 to 128 characters in length and start with a letter or Chinese character. It can contain letters, Chinese characters, digits, periods (.), underscores (_), and hyphens (-). The name cannot start with <code>http://</code> or <code>https://</code>.</p>
LocalSubnet	String	No	1.1.1.0/24,1.1.2.0/24	<p>The CIDR block of the VPC to be connected with the on-premises data center. This parameter is used for Phase 2 negotiations.</p> <p>Separate multiple CIDR blocks with commas (,). Example: 192.168.1.0/24,192.168.2.0/24.</p>
RemoteSubnet	String	No	1.1.1.0/24,1.1.2.0/24	<p>The CIDR block of the on-premises data center. This parameter is used for Phase 2 negotiations.</p> <p>Separate multiple CIDR blocks with commas (,). Example: 192.168.3.0/24,192.168.4.0/24.</p>
EffectImmediately	Boolean	No	false	<p>Specifies whether to delete a negotiated IPsec VPN tunnel and initiate a negotiation again. Valid values:</p> <ul style="list-style-type: none"> true: initiates negotiations after the configuration is completed. false (default): initiates negotiations when inbound traffic is detected.

Parameter	Type	Required	Example	Description
IkeConfig	String	No	<pre>{ "IkeVersion": "ikev1", "IkeMode": "main", "IkeEncAlg": "aes", "IkeAuthAlg": "sha1", "IkePfs": "group2", "IkeLifetime": 86400 }</pre>	<p>The configurations of Phase 1 negotiations:</p> <ul style="list-style-type: none"> IkeConfig.Psk: the pre-shared key used for authentication between the IPsec VPN gateway and the customer gateway. By default, a random value is generated. You can also specify a pre-shared key. The key can be up to 100 characters in length. 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 aggressive. Default value: main. IkeConfig.IkeEncAlg: the encryption algorithm used in Phase 1 negotiations. Valid values: AES AES192 AES256 DES 3DES. Default value: AES. IkeConfig.IkeAuthAlg: the authentication algorithm used in Phase 1 negotiations. Valid values: MD5 SHA1. Default value: SHA1. IkeConfig.IkePfs: the Diffie-Hellman key exchange algorithm used in Phase 1 negotiations. Valid values: Group1 Group2 Group5 Group14 Group24. Default value: Group2. IkeConfig.IkeLifetime: the SA lifetime as a result of Phase 1 negotiations. Valid values: 0 to 86400. Unit: seconds. Default value: 86400. IkeConfig.LocalIdIPsec: the identifier of the VPN gateway. This parameter can contain up to 100 characters. By default, it is the public IP address of the VPN gateway. IkeConfig.Remoteld: the identifier of the customer gateway. This parameter can contain up to 100 characters. The default value is the public IP address of the

Parameter	Type	Required	Example	Description
IpsecConfig	String	No	<pre>{"IpsecEncAlg": "aes", "IpsecAuthAlg": "sha1", "IpsecPfs": "group2", "IpsecLifetime": 86400}</pre>	<p>customer gateway.</p> <p>The configurations of Phase 2 negotiations.</p> <ul style="list-style-type: none"> IpsecConfig.IpsecEncAlg: the encryption algorithm used in Phase 2 negotiations. Valid values: AES AES192 AES256 DES 3DES. Default value: AES. IpsecConfig.IpsecAuthAlg: the authentication algorithm used in Phase 2 negotiations. Valid values: MD5 SHA1. Default value: SHA1. IpsecConfig.IpsecPfs: the Diffie-Hellman group for perfect forward secrecy (PFS). The Diffie-Hellman key exchange algorithm used in Phase 1 negotiations. Valid values: Group1 Group2 Group5 Group14 Group24. Default value: Group2. IpsecConfig.IpsecLifetime: the SA lifetime as a result of Phase 2 negotiations. Valid values: 0 to 86400. Unit: seconds. Default value: 86400.
HealthCheckConfig	String	No	<pre>{"enable": "true", "dip": "192.168.xx.2", "sip": "192.168.xx.2", "interval": "3", "retry": "3"}</pre>	<p>The health check configurations:</p> <ul style="list-style-type: none"> HealthCheckConfig.enable: specifies whether to enable health checks. Valid values: true false (default). HealthCheckConfig.dip: the destination IP address that is configured for health checks. HealthCheckConfig.sip: the source IP address that is configured for health checks. HealthCheckConfig.interval: the interval between health check retries. Unit: seconds. HealthCheckConfig.retry: the maximum number of health check retries.

Parameter	Type	Required	Example	Description
AutoConfigRoute	Boolean	No	true	<p>Specifies whether to automatically propagate routes. Valid values:</p> <ul style="list-style-type: none"> true (default): Routes are automatically propagated. false: Routes are not automatically propagated.
EnableDpd	Boolean	No	true	<p>Specifies whether dead peer detection (DPD) is enabled. Valid values:</p> <ul style="list-style-type: none"> true(Default): enables the DPD feature. The IPsec initiator sends DPD packets to verify the existence and availability of IPsec peers. If no feedback is received from the peer within a specified period of time, the IPsec initiator will disconnect the IPsec tunnel. ISAKMP SA and the corresponding IPsec SA are deleted. The security tunnel is also deleted. false: disables the DPD feature. The IPsec initiator does not send DPD packets.
EnableNatTraversal	Boolean	No	true	<p>Specifies whether to enable the NAT traversal feature. Valid values:</p> <ul style="list-style-type: none"> true(Default): enables the NAT traversal feature. After NAT traversal is enabled, the initiator does not need to check the UDP ports during IKE negotiations and can automatically discover NAT gateway devices along the VPN tunnel. false: disables the NAT traversal feature.

Parameter	Type	Required	Example	Description
BgpConfig	String	No	<pre>{"EnableBgp": "true", "LocalAsn": "10001", "TunnelCidr": "169.254.11.0/30", "LocalBgpIp": "169.254.11.1"}</pre>	<p>BGP configurations:</p> <ul style="list-style-type: none"> BgpConfig.EnableBgp: specifies whether to enable Border Gateway Protocol (BGP). Valid values: true false. BgpConfig.LocalAsn: the local autonomous system number. BgpConfig.TunnelCidr: the IPsec tunnel CIDR block. The mask length of the CIDR block in 169.254.0.0/16 is 30. LocalBgpIp: the local BGP IP address. This IP address is within the IPsec tunnel CIDR block.

Response parameters

Parameter	Type	Example	Description
VpnConnectionId	String	vco-bp1bbi27hojx80nck****	The name of the IPsec VPN connection.
CustomerGatewayId	String	vpn-bp1q8bgx4xnkm2ogj****	The ID of the customer gateway.
VpnGatewayId	String	vpn-bp1q8bgx4xnkm2ogj****	The ID of the VPN gateway.
Name	String	test	The name of the IPsec VPN 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 VPN connection was created.
Description	String	description	The description of the IPsec VPN connection.

Parameter	Type	Example	Description
EffectImmediately	Boolean	false	<p>Indicates whether the IPsec VPN connection takes effect.</p> <ul style="list-style-type: none"> • true: initiates negotiations after the configuration is complete. • false (default): initiates negotiations when inbound traffic is detected.
EnableDpd	Boolean	true	<p>Indicates whether to enable DPD.</p> <ul style="list-style-type: none"> • false: DPD is disabled. • true: DPD is enabled.
EnableNatTraversal	Boolean	true	<p>indicates whether to enable the NAT traversal feature.</p> <ul style="list-style-type: none"> • false: The NAT traversal feature is disabled. • true: The NAT traversal feature is enabled.
IkeConfig	Struct		The configurations of Phase 1 negotiations.
IkeAuthAlg	String	sha1	The IKE authentication algorithm.
IkeEncAlg	String	aes	The IKE encryption algorithm.
IkeLifetime	Long	86400	The IKE lifetime.
IkeMode	String	main	The IKE mode.
IkePfs	String	group2	The DH group.
IkeVersion	String	ikev1	The IKE version.
LocalId	String	116.xx.xx.64	The ID of the local gateway. The default value is the IP address of the VPN gateway. Both fully qualified domain name (FQDN) and IP address formats are supported.

Parameter	Type	Example	Description
Psk	String	pgw6dy7d1i8j****	The pre-shared key.
Remoteld	String	139.xx.xx.167	The ID of the peer. By default, it is the IP address of the customer gateway. Both fully qualified domain name (FQDN) and IP address formats are supported.
IpssecConfig	Struct		The configurations of Phase 2 negotiations.
IpssecAuthAlg	String	sha1	The IPsec authentication algorithm. Both SHA1 and MD5 are supported.
IpssecEncAlg	String	aes	The IPsec encryption algorithm.
IpssecLifetime	Long	86400	The IPsec lifetime.
IpssecPfs	String	group2	The DH group.
RequestId	String	7DB79D0C-5F27-4AB5-995B-79BE55102F90	The ID of the request.
VcoHealthCheck	Struct		The health check configurations.
Dip	String	1.1.1.xx	The destination IP address configured for health checks.
Enable	String	true	Specifies whether to enable the health check function. <ul style="list-style-type: none"> • true: Health checks are enabled. • false: Health checks are disabled.
Interval	Integer	3	The time interval between two consecutive health check retries. Unit: seconds.
Retry	Integer	1	The number of attempts for resending health check probes.

Parameter	Type	Example	Description
Sip	String	2.2.2.xx	The source IP address configured for health checks.
VpnBgpConfig	Struct		BGP configuration information.
EnableBgp	String	true	The status of BGP. <ul style="list-style-type: none"> • true: enabled. • false: disabled.
LocalAsn	Integer	10001	Local autonomous system number.
LocalBgpIp	String	169.254.11.1	The local BGP IP address.
PeerAsn	Integer	10002	Peer autonomous system number.
PeerBgpIp	String	169.254.11.2	The BGP IP address of the peer.
Status	String	success	The negotiation status of BGP. <ul style="list-style-type: none"> • success: BGP is normal. • false: A BGP error occurred.
TunnelCidr	String	169.254.11.0/30	The IPsec tunnel CIDR block.

Examples

Sample requests

```
https://vpc.aliyuncs.com/?Action=ModifyVpnConnectionAttribute
&RegionId=cn-shanghai
&VpnConnectionId=vco-bp1bbi27hojx80nck****
&<Common request parameter>
```

Sample success response

XML format

```
<ModifyVpnConnectionAttributeResponse>
  <LocalSubnet>10.0.0.0/8</LocalSubnet>
  <RequestId>89C9783E-A2D7-4F07-96CF-6C65C0E50BD3</RequestId>
  <CustomerGatewayId>cgw-gw8usu4zs k23pf69f****</CustomerGatewayId>
```

```
<CreateTime>1590495160000</CreateTime>
<Name>VPN1-CGW22</Name>
<EffectImmediately>>false</EffectImmediately>
<RemoteSubnet>192.168.0.0/16</RemoteSubnet>
<VcoHealthCheck>
  <Enable>>false</Enable>
  <Dip></Dip>
  <Sip></Sip>
  <Retry>0</Retry>
  <Interval>0</Interval>
</VcoHealthCheck>
<VpnGatewayId>vpn-gw8bvv722zwjht7ia****</VpnGatewayId>
<IpsecConfig>
  <IpsecPfs>group2</IpsecPfs>
  <IpsecEncAlg>aes</IpsecEncAlg>
  <IpsecAuthAlg>sha1</IpsecAuthAlg>
  <IpsecLifetime>86400</IpsecLifetime>
</IpsecConfig>
<VpnConnectionId>vco-gw8tylx7hvwhl7tu8****</VpnConnectionId>
<EnableNatTraversal>>true</EnableNatTraversal>
<EnableDpd>>true</EnableDpd>
<IkeConfig>
  <IkeAuthAlg>sha1</IkeAuthAlg>
  <LocalId>8.xx.xx.192</LocalId>
  <IkeEncAlg>aes</IkeEncAlg>
  <IkeVersion>ikev1</IkeVersion>
  <IkeMode>main</IkeMode>
  <IkeLifetime>86400</IkeLifetime>
  <Psk>123456</Psk>
  <RemoteId>8.xx.xx.146</RemoteId>
  <IkePfs>group2</IkePfs>
</IkeConfig>
<VpnBgpConfig>
  <Status>success</Status>
  <EnableBgp>>true</EnableBgp>
  <LocalAsn>10001</LocalAsn>
  <TunnelCidr>169.254.10.0/30</TunnelCidr>
  <PeerBgpIp>169.254.10.2</PeerBgpIp>
  <PeerAsn>10002</PeerAsn>
  <LocalBgpIp>169.254.10.1</LocalBgpIp>
```

```
</vpnBgpContig>  
</ModifyVpnConnectionAttributeResponse>
```

JSON format

```
{  
  "LocalSubnet": "10.0.0.0/8",  
  "RequestId": "89C9783E-A2D7-4F07-96CF-6C65C0E50BD3",  
  "CustomerGatewayId": "cgw-gw8usu4zsk23pf69f****",  
  "CreateTime": 1590495160000,  
  "Name": "VPN1-CGW22",  
  "EffectImmediately": false,  
  "RemoteSubnet": "192.168.0.0/16",  
  "VcoHealthCheck": {  
    "Enable": "false",  
    "Dip": "",  
    "Sip": "",  
    "Retry": 0,  
    "Interval": 0  
  },  
  "VpnGatewayId": "vpn-gw8bvv722zwjht7ia****",  
  "IpsecConfig": {  
    "IpsecPfs": "group2",  
    "IpsecEncAlg": "aes",  
    "IpsecAuthAlg": "sha1",  
    "IpsecLifetime": 86400  
  },  
  "VpnConnectionId": "vco-gw8tylx7hvwhl7tu8****",  
  "EnableNatTraversal": true,  
  "EnableDpd": true,  
  "IkeConfig": {  
    "IkeAuthAlg": "sha1",  
    "LocalId": "8.xx.xx.192",  
    "IkeEncAlg": "aes",  
    "IkeVersion": "ikev1",  
    "IkeMode": "main",  
    "IkeLifetime": 86400,  
    "Psk": "123456",  
    "RemoteId": "8.xx.xx.146",  
    "IkePfs": "group2"  
  },  
}
```

```

"VpnBgpConfig": {
  "Status": "success",
  "EnableBgp": "true",
  "LocalAsn": 10001,
  "TunnelCidr": "169.254.10.0/30",
  "PeerBgpIp": "169.254.10.2",
  "PeerAsn": 10002,
  "LocalBgpIp": "169.254.10.1"
}
}

```

Error codes

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.	The error message returned because you are not authorized to perform this operation on the specified resource. You can apply for the permission and try again.
403	Forbidden	User not authorized to operate on the specified resource.	The error message returned because you are not authorized to perform this operation on the specified resource. To require the permission, submit a ticket.
404	InvalidVpnConnectionInstanceId.NotFound	The specified vpn connection instance id does not exist.	The error message returned because the specified VPN connection does not exist. You can check whether the configuration of the VPN connection is valid.
400	VpnGateway.Configuring	The specified service is configuring.	The error message returned because the specified service is being configured. Try again later.
400	VpnGateway.FinancialLocked	The specified service is financial locked.	The error message returned because the service is overdue. Add funds before you enable the service.

HTTP status code	Error code	Error message	Description
400	InvalidName	The name is not valid	The error message returned because the format of the specified name parameter is invalid.
400	QuotaExceeded.PolicyBasedRoute	The maximum number of policy-based routes is exceeded. Existing routes: %s. Routes to be created: %s. Maximum routes: %s.	The error message returned because the number of policy-based routing entries has reached the upper limit. The maximum number of entries that you can create is %s. The number of existing entries is %s. You are now creating %s entries.

For a list of error codes, visit the [API Error Center](#).

7.3. 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-bp1mvj4g9kogwxxxxxxx	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-bp1q8bgx4xnkxx xxxxxx	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
└ 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	pgw6dy7dxxxxxxxxx	The pre-shared key.

Parameter	Type	Example value	Description
<code>↳Remoteld</code>	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.
<code>↳IpsecConfig</code>			Configurations of phase two negotiation.
<code>↳IpsecAuthAlg</code>	String	sha1	The IPsec authentication algorithm. Both SHA-1 and MD5 are supported.
<code>↳IpsecEncAlg</code>	String	aes	The IPsec encryption algorithm.
<code>↳IpsecLifetime</code>	Long	86400	The IPsec encryption algorithm.
<code>↳IpsecPfs</code>	String	group2	The DH group.
<code>↳VpnConnectionId</code>	String	vco-bp10lz7aejumdxxxxxxx	The ID of the IPsec connection.
<code>↳CustomerGatewayId</code>	String	vpn-bp1q8bgx4xnkxxxxxxx	The ID of the customer gateway.
<code>↳VpnGatewayId</code>	String	vpn-bp1q8bgx4xnkmxxxxxxx	The ID of the VPN Gateway.
<code>↳Name</code>	String	xxxxxxxxxxxxx	The name of the IPsec connection.
<code>↳LocalSubnet</code>	String	1.1.1.0/24,1.1.2.0/24	The CIDR block of the VPC.
<code>↳RemoteSubnet</code>	String	1.1.1.0/24,1.1.2.0/24	The CIDR block of the on-premises data center.
<code>↳CreateTime</code>	Long	1492753817000	The time at which the IPsec connection was created.

Parameter	Type	Example value	Description
<code>↳Status</code>	String	<code>ipsec_sa_established</code>	<p>The connection status. Valid values:</p> <ul style="list-style-type: none"> <code>ike_sa_not_established</code>: Phase one negotiation failed. <code>ike_sa_established</code>: Phase one negotiation succeeded. <code>ipsec_sa_not_established</code>: Phase two negotiation failed. <code>ipsec_sa_established</code>: Phase two negotiation succeeded.
<code>↳EffectImmediately</code>	Boolean	<code>true</code>	<p>Indicates whether the IPsec connection takes effect immediately.</p> <ul style="list-style-type: none"> <code>true</code>: Reconnection is triggered when there is a change to the network configuration. <code>false</code>: Reconnection is triggered when traffic is detected over the network. A reconnection may cause intermittent connections.
<code>↳VcoHealthCheck</code>			Health check.
<code>↳Dip</code>	String	<code>8.xx.xx.8</code>	The destination IP address.
<code>↳Interval</code>	Integer	<code>2</code>	The time interval between two consecutive health checks.
<code>↳Sip</code>	String	<code>192.xx.xx.66</code>	The source IP address.
<code>TotalCount</code>	Integer	<code>10</code>	The number of queried entries.
<code>PageNumber</code>	Integer	<code>1</code>	The current page number.
<code>PageSize</code>	Integer	<code>10</code>	The number of entries per page.
<code>RequestId</code>	String	<code>54A4B3D0-DF4D-4C54-B8DC-5DC8DD49C939</code>	The ID of the request.

Examples

Request example


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

Response example

XML format

```
<DescribeVpnConnections>
  <PageNumber>1</PageNumber>
  <VpnConnections>
    <VpnConnection>
      <Name>vpn connection test</Name>
      <CustomerGatewayId>cgw-bp1pvpl9r9adjxxxxxxxx</CustomerGatewayId>
      <RemoteSubnet>2.2.2.0/24</RemoteSubnet>
      <IpsecConfig>
        <IpsecLifetime>86400</IpsecLifetime>
        <IpsecAuthAlg>sha1</IpsecAuthAlg>
        <IpsecPfs>group2</IpsecPfs>
        <IpsecEncAlg>aes</IpsecEncAlg>
      </IpsecConfig>
      <EffectImmediately>>true</EffectImmediately>
      <VpnGatewayId>vpn-bp1q8bgx4xnkmxxxxxxxx</VpnGatewayId>
      <CreateTime>1492753817000</CreateTime>
      <VpnConnectionId>vco-bp10lz7aejumdxxxxxxxx</VpnConnectionId>
      <status>ipsec_sa_established</status>
      <LocalSubnet>1.1.1.0/24,1.1.2.0/24</LocalSubnet>
      <IkeConfig>
        <IkeEncAlg>aes</IkeEncAlg>
        <RemotId>139.xx.xx. 167</RemotId>
        <IkePfs>group2</IkePfs>
        <IkeAuthAlg>sha1</IkeAuthAlg>
        <Psk>pgw6dyxxxxxxxx</Psk>
        <IkeMode>main</IkeMode>
        <IkeLifetime>86400</IkeLifetime>
        <IkeVersion>ikev1</IkeVersion>
        <LocalId>116.xx.xx. 64</LocalId>
      </IkeConfig>
    </VpnConnection>
  </VpnConnections>
  <TotalCount>1</TotalCount>
  <PageSize>10</PageSize>
  <RequestId>54A4B3D0-DF4D-4C54-B8DC-5DC8DD49C939</RequestId>
</DescribeVpnConnections>
```

JSON format

```
{
  "PageNumber":1,
  "VpnConnections": {
    "VpnConnection": [
      {
        "CustomerGatewayId":"cgw-bp1pvpl9r9adjxxxxxxxx",
        "Name": "vpn connection test",
        "RemoteSubnet":"2.2.2.0/24",
        "IpsecConfig":{
          "IpsecLifetime":86400,
          "IpsecAuthAlg":"sha1",
          "IpsecPfs":"group2",
          "IpsecEncAlg":"aes"
        },
        "VpnGatewayId":"vpn-bp1q8bgx4xnkmxxxxxxxx",
        "EffectImmediately":true,
        "status":"ipsec_sa_established",
        "VpnConnectionId":"vco-bp10lz7aejumdx",
        "CreateTime":1492753817000,
        "LocalSubnet":"1.1.1.0/24,1.1.2.0/24",
        "IkeConfig":{
          "IkeEncAlg":"aes",
          "IkePfs":"group2",
          "RemotId":"139.xx.xx. 167",
          "IkeAuthAlg":"sha1",
          "Psk":"pgw6dy",
          "IkeMode":"main",
          "IkeLifetime":86400,
          "IkeVersion":"ikev1",
          "LocalId":"116.xx.xx. 64"
        }
      }
    ]
  },
  "TotalCount":1,
  "PageSize":10,
  "RequestId": "54A4B3D0-DF4D-4C54-B8DC-5DC8DD49C939"
}
```

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](#)

7.4. DescribeVpnConnection

You can call this operation to query the details of an IPsec VPN connection.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	DescribeVpnConnection	The operation that you want to perform. Set the value to DescribeVpnConnection .
RegionId	String	Yes	cn-hangzhou	The region ID of the IPsec VPN connection. You can call the DescribeRegions operation to obtain the region ID.
VpnConnectionId	String	Yes	vco-bp1bbi27hojx80nck****	The ID of the IPsec VPN connection.

Response parameters

Parameter	Type	Example	Description
VpnConnectionId	String	vco-bp1bbi27hojx80nck****	The ID of the IPsec VPN connection.
CustomerGatewayId	String	cgw-bp1mvj4g9kogwwcxk****	The ID of the customer gateway.
VpnGatewayId	String	vpn-bp1q8bgx4xnkm2ogj****	The ID of the VPN gateway.
Name	String	ipsec1	The name of the IPsec VPN connection.
LocalSubnet	String	1.1.1.0/24	The CIDR block of the VPC.
RemoteSubnet	String	1.1.1.0/24	The CIDR block of the on-premises data center.
CreateTime	Long	1492753817000	The time when the IPsec VPN connection was created.
Status	String	ike_sa_not_established	<p>The status of the connection.</p> <ul style="list-style-type: none"> ike_sa_not_established: Phase 1 negotiations failed. ike_sa_established: Phase 1 negotiations were successful. ipsec_sa_not_established: Phase 2 negotiations failed. ipsec_sa_established: Phase 2 negotiations were successful.
EffectImmediately	Boolean	true	<p>Indicates whether the IPsec VPN connection takes effect immediately.</p> <ul style="list-style-type: none"> true: A reconnection is triggered when the configuration is changed. false: A reconnection is triggered when network traffic is detected. Reconnections may cause transient disconnections.

Parameter	Type	Example	Description
EnableDpd	Boolean	true	<p>Indicates whether dead peer detection (DPD) is enabled.</p> <ul style="list-style-type: none"> • false: DPD is disabled. • true: DPD is enabled. <p>The IPsec initiator sends DPD packets to check the existence and availability of the IPsec peer. If no feedback is received from the peer within a specified period of time, the IPsec initiator will disconnect the IPsec tunnel. ISAKMP SA and the corresponding IPsec SA are deleted. The security tunnel is also deleted.</p>
EnableNatTraversal	Boolean	true	<p>Indicates whether to enable the NAT traversal feature.</p> <ul style="list-style-type: none"> • true: The NAT traversal feature is enabled. • false: The NAT traversal feature is disabled. <p>After NAT traversal is enabled, the initiator does not need to check the UDP ports during IKE negotiations and can automatically discover NAT gateway devices along the VPN tunnel.</p>
IkeConfig	Struct		The configurations of Phase 1 negotiations.
IkeAuthAlg	String	sha1	The IKE authentication algorithm. Both SHA1 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 and aggressive modes 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.

Parameter	Type	Example	Description
IkeVersion	String	ikev1	The IKE version.
LocalId	String	116.62.69.xxx	The local ID of the VPN gateway. The default value is the IP address of the VPN gateway. Both fully qualified domain name (FQDN) and IP address formats are supported.
Psk	String	pgw6dy7d1i8in7x5	The pre-shared key.
RemoteId	String	139.196.32.xxx	The peer ID. The default value is the IP address of the customer gateway. Both FQDN and IP address formats are supported.
IpssecConfig	Struct		The configurations of Phase 2 negotiations.
IpssecAuthAlg	String	sha1	The IPsec authentication algorithm. Both SHA1 and MD5 are supported.
IpssecEncAlg	String	aes	The IPsec encryption algorithm.
IpssecLifetime	Long	86400	The IPsec lifetime.
IpssecPfs	String	group2	The DH group.
RequestId	String	F2310D45-BCF6-4E2E-9082-B4503844BA4C	The ID of the request.
VcoHealthCheck	Struct		The health check information.
Dip	String	10.0.0.xx	The destination IP address specified for health checks.
Enable	String	true	Indicates whether to enable health checks. <ul style="list-style-type: none"> • false: Health checks are disabled. • true: Health checks are enabled.

Parameter	Type	Example	Description
Interval	Integer	3	The time interval between two consecutive health check retries. Unit: seconds.
Retry	Integer	3	The maximum number of attempts for resending health check probes.
Sip	String	192.168.1.xx	The source IP address specified for health checks.
Status	String	failed	The status of the health check.
VpnBgpConfig	Struct		BGP configuration information.
EnableBgp	String	true	The status of BGP. <ul style="list-style-type: none"> • true: enabled. • false: disabled.
LocalAsn	String	10001	The local autonomous system number.
LocalBgpIp	String	169.254.11.1	The local BGP IP address.
PeerAsn	String	10002	The peer autonomous system number.
PeerBgpIp	String	169.254.11.2	The peer BGP IP address.
Status	String	true	The negotiation status of BGP. <ul style="list-style-type: none"> • success • false
TunnelCidr	String	169.254.11.0/30	The CIDR block of the IPsec tunnel.

Examples

Sample requests


```
https://vpc.aliyuncs.com/?Action=DescribeVpnConnection
&RegionId=cn-hangzhou
&VpnConnectionId=vco-bp1bbi27hojx80nck****
&<Common request parameter>
```

Sample success response

XML format

```
<DescribeVpnConnectionResponse>
  <LocalSubnet>10.0.0.0/8</LocalSubnet>
  <Status>ipsec_sa_established</Status>
  <RequestId>6FBAE985-A938-49CB-9129-621AA3A88728</RequestId>
  <CustomerGatewayId>cgw-gw8usu4zs k23pf69f****</CustomerGatewayId>
  <CreateTime>1590495160000</CreateTime>
  <Name>VPN1-CGW22</Name>
  <EffectImmediately>>false</EffectImmediately>
  <RemoteSubnet>192.168.0.0/16</RemoteSubnet>
  <VcoHealthCheck>
    <Status>success</Status>
    <Enable>>false</Enable>
    <Dip></Dip>
    <Sip></Sip>
    <Retry>0</Retry>
    <Interval>0</Interval>
  </VcoHealthCheck>
  <VpnGatewayId>vpn-gw8bv722zwjht7ia****</VpnGatewayId>
  <IpsecConfig>
    <IpsecPfs>group2</IpsecPfs>
    <IpsecEncAlg>aes</IpsecEncAlg>
    <IpsecAuthAlg>sha1</IpsecAuthAlg>
    <IpsecLifetime>86400</IpsecLifetime>
  </IpsecConfig>
  <VpnConnectionId>vco-gw8tylx7hvwhl7tu8****</VpnConnectionId>
  <EnableNatTraversal>>true</EnableNatTraversal>
  <EnableDpd>>true</EnableDpd>
  <IkeConfig>
    <IkeAuthAlg>sha1</IkeAuthAlg>
    <LocalId>8.xx.xx.192</LocalId>
    <IkeEncAlg>aes</IkeEncAlg>
    <IkeVersion>ikev1</IkeVersion>
```

```

<IkeMode>main</IkeMode>
<IkeLifetime>86400</IkeLifetime>
<Psk>123456</Psk>
<RemoteId>8.xx.xx.146</RemoteId>
<IkePfs>group2</IkePfs>
</IkeConfig>
<VpnBgpConfig>
  <Status>success</Status>
  <EnableBgp>true</EnableBgp>
  <LocalAsn>10001</LocalAsn>
  <TunnelCidr>169.254.10.0/30</TunnelCidr>
  <PeerBgpIp>169.254.10.2</PeerBgpIp>
  <PeerAsn>10001</PeerAsn>
  <LocalBgpIp>169.254.10.1</LocalBgpIp>
</VpnBgpConfig>
</DescribeVpnConnectionResponse>

```

JSON format

```

{
  "LocalSubnet": "10.0.0.0/8",
  "Status": "ipsec_sa_established",
  "RequestId": "6FBAE985-A938-49CB-9129-621AA3A88728",
  "CustomerGatewayId": "cgw-gw8usu4zsk23pf69f****",
  "CreateTime": 1590495160000,
  "Name": "VPN1-CGW22",
  "EffectImmediately": false,
  "RemoteSubnet": "192.168.0.0/16",
  "VcoHealthCheck": {
    "Status": "success",
    "Enable": "false",
    "Dip": "",
    "Sip": "",
    "Retry": 0,
    "Interval": 0
  },
  "VpnGatewayId": "vpn-gw8bvv722zwjht7ia****",
  "IpsecConfig": {
    "IpsecPfs": "group2",
    "IpsecEncAlg": "aes",
    "IpsecAuthAlg": "sha1",

```

```

    "IpsecLifetime": 86400
  },
  "VpnConnectionId": "vco-gw8tylx7hvwhl7tu8****",
  "EnableNatTraversal": true,
  "EnableDpd": true,
  "IkeConfig": {
    "IkeAuthAlg": "sha1",
    "LocalId": "8.xx.xx.192",
    "IkeEncAlg": "aes",
    "IkeVersion": "ikev1",
    "IkeMode": "main",
    "IkeLifetime": 86400,
    "Psk": "123456",
    "RemoteId": "8.xx.xx.146",
    "IkePfs": "group2"
  },
  "VpnBgpConfig": {
    "Status": "success",
    "EnableBgp": "true",
    "LocalAsn": 10001,
    "TunnelCidr": "169.254.10.0/30",
    "PeerBgpIp": "169.254.10.2",
    "PeerAsn": 10001,
    "LocalBgpIp": "169.254.10.1"
  }
}

```

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.	The error message returned because you are not authorized to perform this operation on the specified resource.
403	Forbidden	User not authorized to operate on the specified resource.	The error message returned because you are not authorized to perform this operation on the specified resource. To require the permission, submit a ticket.

HTTP status code	Error code	Error message	Description
404	InvalidVpnConnectionInstanceId.NotFound	The specified vpn connection instance id does not exist.	The error message returned because the specified VPN connection does not exist. You can check whether the configuration of the VPN connection is valid.

For a list of error codes, visit the [API Error Center](#).

7.5. 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: <i>DownloadVpnConnectionConfig</i>
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.

Parameter	Type	Example value	Description
<code>↳IkeConfig</code>			IKE configurations.
<code>↳IkeAuthAlg</code>	String	sha1	The IKE authentication algorithm. Both SHA-1 and MD5 are supported.
<code>↳IkeEncAlg</code>	String	aes	The IKE encryption algorithm.
<code>↳IkeLifetime</code>	Long	86400	The IKE lifetime.
<code>↳IkeMode</code>	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.
<code>↳IkePfs</code>	String	group2	The DH group.
<code>↳IkeVersion</code>	String	ikev1	The IKE version.
<code>↳LocalId</code>	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.
<code>↳Psk</code>	String	pgw6dy7d1i8in7x5	The pre-shared key.
<code>↳Remoteld</code>	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.
<code>↳IpsecConfig</code>			The IPsec connection configurations.
<code>↳IpsecAuthAlg</code>	String	sha1	The IPsec authentication algorithm. Both SHA-1 and MD5 are supported.
<code>↳IpsecEncAlg</code>	String	aes	The IPsec encryption algorithm.
<code>↳IpsecLifetime</code>	Long	86400	The IPsec lifetime.

Parameter	Type	Example value	Description
<code>└IpsecPfs</code>	String	group2	The DH group.
<code>└Local</code>	String	139.196.32.167	The IP address of the VPN Gateway.
<code>└LocalSubnet</code>	String	1.1.1.0/24,1.1.2.0/24	The CIDR block of the VPC.
<code>└Remote</code>	String	116.62.69.64	The IP address of the customer gateway.
<code>└RemoteSubnet</code>	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=DownloadVpnConnectionConfig
&RegionId=cn-shanghai
&VpnConnectionId=vco-bp1bbi27hojx80nck9k1i
&<CommonParameters>
```

Response example

- XML format

```
<DownloadVpnConnectionConfigResponse>
  <RequestId>6F4A035F-7060-45D7-B9BD-719372782AF6</RequestId>
  <VpnConnectionConfig>
    <RemoteSubnet>1.1.1.0/24,1.1.2.0/24</RemoteSubnet>
    <Local>139.196.32.167</Local>
    <IpsecConfig>
      <IpsecLifetime>86400</IpsecLifetime>
      <IpsecAuthAlg>sha1</IpsecAuthAlg>
      <IpsecPfs>group2</IpsecPfs>
      <IpsecEncAlg>aes</IpsecEncAlg>
    </IpsecConfig>
    <Remote>116.62.69.64</Remote>
    <LocalSubnet>2.2.2.0/24</LocalSubnet>
    <IkeConfig>
      <IkeEncAlg>aes</IkeEncAlg>
      <IkePfs>group2</IkePfs>
      <RemoteId>116.62.69.64</RemoteId>
      <IkeAuthAlg>sha1</IkeAuthAlg>
      <Psk>pgw6dy7d1i8in7x5</Psk>
      <IkeMode>main</IkeMode>
      <IkeLifetime>86400</IkeLifetime>
      <IkeVersion>ikev1</IkeVersion>
      <LocalId>139.196.32.167</LocalId>
    </IkeConfig>
  </VpnConnectionConfig>
</DownloadVpnConnectionConfigResponse>
```

- JSON format

```

{
  "RequestId":"0C68048B-0F70-40DA-B8AE-1B79B5CF62E3",
  "VpnConnectionConfig":{
    "RemoteSubnet":"1.1.1.0/24,1.1.2.0/24",
    "IpsecConfig":{
      "IpsecLifetime":86400,
      "IpsecAuthAlg":"sha1",
      "IpsecPfs":"group2",
      "IpsecEncAlg":"aes"
    },
    "Local":"139.196.32.167",
    "Remote":"116.62.69.64",
    "LocalSubnet":"2.2.2.0/24",
    "IkeConfig":{
      "IkeEncAlg":"aes",
      "Remoteld":"116.62.69.64",
      "IkePfs":"group2",
      "IkeAuthAlg":"sha1",
      "Psk":"pgw6dy7d1i8in7x5",
      "IkeMode":"main",
      "IkeLifetime":86400,
      "IkeVersion":"ikev1",
      "Localld":"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](#)

7.6. 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: <i>DeleteVpnConnection</i>
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
&<CommonParameters>
```

Response example

- XML format

```
<DeleteVpnConnectionResponse>
  <RequestId>606998F0-B94D-48FE-8316-ACA81BB230DA</RequestId>
</DeleteVpnConnectionResponse>
```

- JSON format

```
{
  "RequestId":"606998F0-B94D-48FE-8316-ACA81BB230DA"
}
```

Error codes

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 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	InvalidVpnConnectionInstanceId.NotFound	The specified vpn connection instance id does not exist.	The specified VPN connection does not exist. Check that the VPN connection exists.

HTTP status code	Error code	Error message	Description
400	VpnGateway.Configuring	The specified service is configuring.	The service is being configured. Please try again later.

[See common error codes](#)

8.SSL-VPN

8.1. CreateSslVpnServer

Creates an SSL-VPN server.

Make the API call

You can use [OpenAPI Explorer](#) to make API calls, search for API calls, perform debugging, and generate SDK example code.

Request parameters

Parameter	Type	Required?	Example value	Description
Action	String	Yes	CreateSslVpnServer	The name of this action. Value: CreateSslVpnServer
ClientIpPool	String	Yes	192.168.1.0/24	<p>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.</p> <p>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.</p> <p>This CIDR block cannot conflict with LocalSubnet.</p>
LocalSubnet	String	Yes	10.0.0.0/8	<p>The CIDR block to be accessed by the client through the SSL-VPN connection.</p> <p>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 and OSS.</p>

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 .
VpnGatewayId	String	Yes	vpn-bp1hgim8by0kc9nga****	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.
Name	String	No	sslvpname	The name of the SSL-VPN server. 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 <code>http://</code> or <code>https://</code> .
Proto	String	No	UDP	The protocol used by the SSL-VPN server. Valid values: <ul style="list-style-type: none"> TCP: TCP protocol UDP(default): UDP protocol
Cipher	String	No	AES-128-CBC	The encryption algorithm used by the SSL-VPN server. Valid values: <ul style="list-style-type: none"> AES-128-CBC (default): AES-128-CBC algorithm AES-192-CBC: AES-192-CBC algorithm AES-256-CBC: AES-256-CBC algorithm none: No encryption algorithm is used.

Parameter	Type	Required?	Example value	Description
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.
Compress	Boolean	No	false	Indicates whether to compress the communication. Valid values: <ul style="list-style-type: none"> • true(default): Compresses the communication. • false: Do not compress the communication.

Response parameters

Parameter	Type	Example value	Description
RequestId	String	E98A9651-7098-40C7-8F85-C818D1EBBA85	The ID of the request.
SslVpnServerId	String	vss-bp18q7hzj6largv4v****	The ID of the SSL-VPN server.
Name	String	test	The name of the SSL-VPN server.

Examples

Request example

```
http(s)://[Endpoint]/? Action=CreateSslVpnServer
&ClientIpPool=192.168.1.0/24
&LocalSubnet=10.0.0.0/8
&RegionId=cn-hangzhou
&VpnGatewayId=vpn-bp1hgim8by0kc9nga****
&<CommonParameters>
```

Response example

XML format

```
<CreateSslVpnServerResponse>
  <RequestId>E98A9651-7098-40C7-8F85-C818D1EBBA85</RequestId>
  <SslVpnServerId>vss-bp18q7hzj6largv4v****</SslVpnServerId>
  <Name>test</Name>
</CreateSslVpnServerResponse>
```

JSON format

```
{
  "RequestId": "E98A9651-7098-40C7-8F85-C818D1EBBA85",
  "SslVpnServerId": "vss-bp18q7hzj6largv4v****",
  "Name": "test"
}
```

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 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.
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 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](#).

8.2. ModifySslVpnServer

Modifies the configurations of an SSL-VPN server.

Make the API call

You can use [OpenAPI Explorer](#) to make API calls, search for API calls, perform debugging, and generate SDK example code.

Request parameters

Parameter	Type	Required?	Example value	Description
Action	String	Yes	ModifySslVpnServer	The name of this action. Value: ModifySslVpnServer
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-bp18q7hzj6largv4v****	The ID of the SSL-VPN server.
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	test	The name of the SSL-VPN server. 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 <code>http://</code> or <code>https://</code> .
ClientIpPool	String	No	10.30.30.0/2	The IP address pool of the client.
LocalSubnet	String	No	10.20.20.0/24	The CIDR block of the local client.

Parameter	Type	Required?	Example value	Description
Proto	String	No	UDP	The protocol used by the SSL-VPN server. Valid values: <ul style="list-style-type: none"> TCP: TCP protocol UDP(default): UDP protocol
Cipher	String	No	AES-128-CBC	The encryption algorithm used by the SSL-VPN server. Valid values: <ul style="list-style-type: none"> AES-128-CBC (default): AES-128-CBC algorithm AES-192-CBC: AES-192-CBC algorithm AES-256-CBC: AES-256-CBC algorithm none: No encryption algorithm is used.
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.
Compress	Boolean	No	false	Indicates whether to compress the communication. Valid values: <ul style="list-style-type: none"> true (default): Compresses the communication. false: Do not compress the communication.

Response parameters

Parameter	Type	Example value	Description
RequestId	String	DF11D6F6-E35A-41C3-9B20-6FC8A901FE65	The ID of the request.
RegionId	String	cn-hangzhou	The region of the SSL-VPN server.
SslVpnServerId	String	vss-bp18q7hzj6largv4v****	The ID of the SSL-VPN server.

Parameter	Type	Example value	Description
VpnGatewayId	String	vpn-bp1q8bgx4xnkm2ogj****	The ID of the VPN Gateway instance.
Name	String	test	The name of the SSL-VPN server.
LocalSubnet	String	10.20.20.0/24	The CIDR block of the local client.
ClientIpPool	String	10.30.30.0/24	The IP address pool of the client.
CreateTime	Long	1492753580000	The time at which the SSL-VPN server was created.
Cipher	String	AES-128-CBC	The encryption algorithm used.
Proto	String	UDP	The protocol used by the SSL-VPN server.
Port	Integer	1194	The port of the SSL-VPN server.
Compress	Boolean	false	Indicates whether to compress the communication.
Connections	Integer	0	The number of current connections.
MaxConnections	Integer	5	The maximum number of connections.
InternetIp	String	47.98.xx.xx	The public IP address.

Examples

Request example

```
https://vpc.aliyuncs.com/?Action=ModifySslVpnServer
&RegionId=cn-hangzhou
&SslVpnServerId=vss-bp18q7hzj6largv4****
&<CommonParameters>
```

Response example

XML format

```
<ModifySslVpnServerResponse>
  <PageNumber>1</PageNumber>
  <TotalCount>1</TotalCount>
  <PageSize>10</PageSize>
  <SslVpnServers>
    <SslVpnServer>
      <RegionId>cn-hangzhou</RegionId>
      <SslVpnServerId>vss-bp18q7hzj6largv4v****</SslVpnServerId>
      <VpnGatewayId>vpn-bp1q8bgx4xnkm2ogj****</VpnGatewayId>
      <Name>test</Name>
      <ClientIpPool>10.30.30.0/24</ClientIpPool>
      <LocalSubnet>10.20.20.0/24</LocalSubnet>
      <Proto>UDP</Proto>
      <Port>1194</Port>
      <Cipher>AES-128-CBC</Cipher>
      <Compress>true</Compress>
      <CreateTime>1492753580000</CreateTime>
      <Connections>0</Connections>
      <MaxConnections>5</MaxConnections>
      <InternetIp>47.98.xx.xx</InternetIp>
    </SslVpnServer>
  </SslVpnServers>
  <RequestId>DF11D6F6-E35A-41C3-9B20-6FC8A901FE65</RequestId>
</ModifySslVpnServerResponse>
```

JSON format

```

{
  "PageNumber": "1",
  "TotalCount": "1",
  "PageSize": "10",
  "SslVpnServers": {
    "SslVpnServer": {
      "RegionId": "cn-hangzhou",
      "SslVpnServerId": "vss-bp18q7hzj6largv4v****",
      "VpnGatewayId": "vpn-bp1q8bgx4xnkm2ogj****",
      "Name": "test",
      "ClientIpPool": "10.30.30.0/24",
      "LocalSubnet": "10.20.20.0/24",
      "Proto": "UDP",
      "Port": "1194",
      "Cipher": "AES-128-CBC",
      "Compress": "true",
      "CreateTime": "1492753580000",
      "Connections": "0",
      "MaxConnections": "5",
      "InternetIp": "47.98.xx.xx"
    }
  },
  "RequestId": "DF11D6F6-E35A-41C3-9B20-6FC8A901FE65"
}

```

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 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	InvalidName	The name is not valid	The name format is invalid.
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.

For a list of error codes, visit the [API Error Center](#).

8.3. 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: <i>DescribeSslVpnServers</i>
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: <i>1</i> .
PageSize	Integer	No	10	The number of rows per page. Maximum value: <i>50</i> . Default value: <i>10</i> .
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.
└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.

Parameter	Type	Example value	Description
L_SslVpnServerId	String	vss-bp15j3du13gq1dgeypy1q	The ID of the SSL-VPN server.
L_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=DescribeSslVpnServers
&RegionId=cn-hangzhou
&<CommonParameters>
```

Response example

- XML format

```
<DescribeSslVpnServersResponse>
  <PageNumber>1</PageNumber>
  <TotalCount>1</TotalCount>
  <PageSize>10</PageSize>
  <SslVpnServers>
    <SslVpnServer>
      <RegionId>cn-hangzhou</RegionId>
      <SslVpnServerId>vss-bp18q7hzj6largv4vk2fe</SslVpnServerId>
      <VpnGatewayId>vpn-bp1q8bgx4xnkm2ogj0fiu</VpnGatewayId>
      <Name>test</Name>
      <ClientIpPool>10.10.10.20/24</ClientIpPool>
      <LocalSubnet>10.10.10.10/24</LocalSubnet>
      <Proto>UDP</Proto>
      <Port>1194</Port>
      <Cipher>AES-128-CBC</Cipher>
      <Compress>true</Compress>
      <CreateTime>1492753580000</CreateTime>
      <Connections>0</Connections>
      <MaxConnections>5</MaxConnections>
      <InternetIp>47.98.xx.xx</InternetIp>
    </SslVpnServer>
  </SslVpnServers>
  <RequestId>DF11D6F6-E35A-41C3-9B20-6FC8A901FE65</RequestId>
</DescribeSslVpnServersResponse>
```

- JSON format


```
{
  "PageNumber": "1",
  "TotalCount": "1",
  "SslVpnServers": {
    "SslVpnServer": {
      "VpnGatewayId": "vpn-bp1q8bgx4xnkm2ogj0fiu",
      "ClientIpPool": "10.10.10.20/24",
      "Proto": "UDP",
      "Cipher": "AES-128-CBC",
      "InternetIp": "47.98.xx.xx",
      "SslVpnServerId": "vss-bp18q7hzj6largv4vk2fe",
      "Name": "test",
      "Port": "1194",
      "MaxConnections": "5",
      "RegionId": "cn-hangzhou",
      "CreateTime": "1492753580000",
      "Compress": "true",
      "LocalSubnet": "10.10.10.10/24",
      "Connections": "0"
    }
  },
  "PageSize": "10",
  "RequestId": "DF11D6F6-E35A-41C3-9B20-6FC8A901FE65"
}
```

Error codes

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 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](#)

8.4. 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: <i>DeleteSslVpnServer</i>
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.
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=DeleteSslVpnServer
&RegionId=cn-hangzhou
&SslVpnServerId=vss-bp18q7hzj6largv4vk2fe
&<CommonParameters>
```

Response example

- XML format

```
<DeleteSslVpnServerResponse>
  <RequestId>606998F0-B94D-48FE-8316-ACA81BB230DA</RequestId>
</DeleteSslVpnServerResponse>
```

- JSON format

```
{
  "RequestId": "606998F0-B94D-48FE-8316-ACA81BB230DA"
}
```

Error codes

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 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](#)

8.5. 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: <i>CreateSslVpnClientCert</i>
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 <code>http://</code> or <code>https://</code> .
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.

Parameter	Type	Example value	Description
SslVpnClientCertId	String	vsc-m5euof6s5jy8vs5kdz2r2	The ID of the client certificate.

Examples

Request example

```
https://vpc.aliyuncs.com/?Action=CreateSslVpnClientCert
&RegionId=cn-hangzhou
&SslVpnServerId=vss-m5et0q3iy1qex328wcuix
&<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.

HTTP status code	Error code	Error message	Description
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](#)

8.6. 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: <i>ModifySslVpnClientCert</i>
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-bp1n8wcf134yloosrcg98	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.

Parameter	Type	Required?	Example value	Description
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 <code>http://</code> or <code>https://</code> .

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=ModifySslVpnClientCert
&RegionId=cn-hangzhou
&SslVpnClientCertId=vsc-bp1n8wcf134yl0osrcg98
&Name=cert2
&<CommonParameters>
```

Response example

- XML format

```
<ModifySslVpnClientCertResponse>
  <SslVpnClientCertId>vsc-bp1n8wcf134yl0osrcg98</SslVpnClientCertId>
  <Name>cert2</Name>
  <RequestId>606998F0-B94D-48FE-8316-ACA81BB230DA</RequestId>
</ModifySslVpnClientCertResponse>
```

- JSON format

```
{
  "Name": "cert2",
  "RequestId": "606998F0-B94D-48FE-8316-ACA81BB230DA",
  "SslVpnClientCertId": "vsc-bp1n8wcf134yl0osrcg98"
}
```

Error codes

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 operate on 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 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](#)

8.7. 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: <i>DescribeSslVpnClientCerts</i>
RegionId	String	Yes	cn-hangzhou	The ID of region to which the SSL-VPN client certificate belongs. To query the region ID, call DescribeRegions .

Parameter	Type	Required?	Example value	Description
Name	String	No	cert1	The name of the SSL-VPN client certificate.
PageNumber	Integer	No	1	The number of pages to return. Default value: 7.
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.
SslVpnClientCertificateKeys	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.

Parameter	Type	Example value	Description
<code>L-SslVpnClientCertId</code>	String	vsc-bp1n8wcf134yl0osrcg98	The ID of the SSL-VPN client certificate.
<code>L-SslVpnServerId</code>	String	vss-bp18q7hzj6largv4vk2fe	The ID of the SSL-VPN server.
<code>L-Status</code>	String	normal	The status of the client certificate: <ul style="list-style-type: none">• expiring-soon: The certificate will expire after one week.• normal: The certificate is valid. .• expired: The certificate has expired.
<code>TotalCount</code>	Integer	1	The number of queried entries.

Examples

Request example

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

Response example

- XML format

```
<DescribeSslVpnServersResponse>
  <PageNumber>1</PageNumber>
  <TotalCount>1</TotalCount>
  <PageSize>10</PageSize>
  <SslVpnServers>
    <SslVpnServer>
      <RegionId>cn-hangzhou</RegionId>
      <SslVpnServerId>vss-bp18q7hzj6largv4vk2fe</SslVpnServerId>
      <VpnGatewayId>vpn-bp1q8bgx4xnkm2ogj0fiu</VpnGatewayId>
      <Name>test</Name>
      <ClientIpPool>10.10.10.20/24</ClientIpPool>
      <LocalSubnet>10.10.10.10/24</LocalSubnet>
      <Proto>UDP</Proto>
      <Port>1194</Port>
      <Cipher>AES-128-CBC</Cipher>
      <Compress>true</Compress>
      <CreateTime>1492753580000</CreateTime>
      <Connections>0</Connections>
      <MaxConnections>5</MaxConnections>
      <InternetIp>47.98.xx.xx</InternetIp>
    </SslVpnServer>
  </SslVpnServers>
  <RequestId>DF11D6F6-E35A-41C3-9B20-6FC8A901FE65</RequestId>
</DescribeSslVpnServersResponse>
```

- JSON format

```

{
  "DescribeSslVpnServersResponse":{
    "PageNumber":"1",
    "TotalCount":"1",
    "SslVpnServers":{
      "SslVpnServer":{
        "VpnGatewayId":"vpn-bp1q8bgx4xnkm2ogj0fiu",
        "ClientIpPool":"10.10.10.20/24",
        "Proto":"UDP",
        "Cipher":"AES-128-CBC",
        "InternetIp":"47.98.xx.xx",
        "SslVpnServerId":"vss-bp18q7hzj6largv4vk2fe",
        "Name":"test",
        "Port":"1194",
        "MaxConnections":"5",
        "RegionId":"cn-hangzhou",
        "CreateTime":"1492753580000",
        "Compress":"true",
        "LocalSubnet":"10.10.10.10/24",
        "Connections":"0"
      }
    },
    "PageSize":"10",
    "RequestId":"DF11D6F6-E35A-41C3-9B20-6FC8A901FE65"
  }
}

```

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](#)

8.8. DescribeVpnSslServerLogs

Views the logs of an SSL server.

Make the API call

You can use [OpenAPI Explorer](#) to make API calls, search for API calls, perform debugging, and generate SDK example code.

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 region of the SSL server. 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. Format: yyyymmddhh . If From is specified, To or MinutePeriod must also be specified.
To	Integer	No	2018020206	The end time of the log. Format: yyyymmddhh . If To is specified, From or MinutePeriod must also be specified.
MinutePeriod	Integer	No	10	The log cycle. If From and To are not specified, MinutePeriod must be specified.
PageNumber	Integer	No	1	The page number. Default value: 1
PageSize	Integer	No	10	The number of entries per page for a paged query. Maximum value: 50. Default value: 10.

Response parameters

Parameter	Type	Example value	Description
RequestId	String	5BE01CD7-5A50-472D-AC14-CA181C5C03BE	The ID of the request.
Count	Integer	10	The number of log entries.
IsCompleted	Boolean	true	Indicates whether the queried log is accurate. Valid values: <ul style="list-style-type: none">• 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.
Data	List	test	An array. Each item in the array is a log.

Examples

Request example

```
http(s)://[Endpoint]/? Action=DescribeVpnSslServerLogs
&RegionId=cn-hangzhou
&VpnSslServerId=vs-s-bp155e9yclsg1xgq4****
&<CommonParameters>
```

Response example

XML format

```
<DescribeVpnSslServerLogsResponse>
  <Data></Data>
  <PageNumber>1</PageNumber>
  <Count>0</Count>
  <PageSize>10</PageSize>
  <IsCompleted>true</IsCompleted>
  <RequestId>26641E42-66C7-4942-9FEC-F99213914F8F</RequestId>
</DescribeVpnSslServerLogsResponse>
```

JSON format

```
{
  "Data": {
    "Logs": []
  },
  "PageNumber": 1,
  "Count": 0,
  "PageSize": 10,
  "IsCompleted": true,
  "RequestId": "26641E42-66C7-4942-9FEC-F99213914F8F"
}
```

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 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 a list of error codes, visit the [API Error Center](#).

8.9. 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: <i>DeleteSslVpnClientCert</i>

Parameter	Type	Required?	Example value	Description
RegionId	String	Yes	cn-hangzhou	The region to which the SSL-VPN client certificate belongs. To query the region ID, call DescribeRegions.
SslVpnClientId	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
&SslVpnClientId=vsc-bp1n8wcf134yl0osrcg98
&<CommonRequestParameters>
```

Response example

- XML format

```
<DeleteSslVpnClientCertResponse>
  <RequestId>606998F0-B94D-48FE-8316-ACA81BB230DA</RequestId>
</DeleteSslVpnClientCertResponse>
```

- JSON format


```
{  
  "RequestId": "606998F0-B94D-48FE-8316-ACA81BB230DA"  
}
```

Error codes

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 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](#)