

Alibaba Cloud

PrivateLink API reference

Document Version: 20210429

Legal disclaimer

Alibaba Cloud reminds you to carefully read and fully understand the terms and conditions of this legal disclaimer before you read or use this document. If you have read or used this document, it shall be deemed as your total acceptance of this legal disclaimer.

1. You shall download and obtain this document from the Alibaba Cloud website or other Alibaba Cloud-authorized channels, and use this document for your own legal business activities only. The content of this document is considered confidential information of Alibaba Cloud. You shall strictly abide by the confidentiality obligations. No part of this document shall be disclosed or provided to any third party for use without the prior written consent of Alibaba Cloud.
2. No part of this document shall be excerpted, translated, reproduced, transmitted, or disseminated by any organization, company or individual in any form or by any means without the prior written consent of Alibaba Cloud.
3. The content of this document may be changed because of product version upgrade, adjustment, or other reasons. Alibaba Cloud reserves the right to modify the content of this document without notice and an updated version of this document will be released through Alibaba Cloud-authorized channels from time to time. You should pay attention to the version changes of this document as they occur and download and obtain the most up-to-date version of this document from Alibaba Cloud-authorized channels.
4. This document serves only as a reference guide for your use of Alibaba Cloud products and services. Alibaba Cloud provides this document based on the "status quo", "being defective", and "existing functions" of its products and services. Alibaba Cloud makes every effort to provide relevant operational guidance based on existing technologies. However, Alibaba Cloud hereby makes a clear statement that it in no way guarantees the accuracy, integrity, applicability, and reliability of the content of this document, either explicitly or implicitly. Alibaba Cloud shall not take legal responsibility for any errors or lost profits incurred by any organization, company, or individual arising from download, use, or trust in this document. Alibaba Cloud shall not, under any circumstances, take responsibility for any indirect, consequential, punitive, contingent, special, or punitive damages, including lost profits arising from the use or trust in this document (even if Alibaba Cloud has been notified of the possibility of such a loss).
5. By law, all the contents in Alibaba Cloud documents, including but not limited to pictures, architecture design, page layout, and text description, are intellectual property of Alibaba Cloud and/or its affiliates. This intellectual property includes, but is not limited to, trademark rights, patent rights, copyrights, and trade secrets. No part of this document shall be used, modified, reproduced, publicly transmitted, changed, disseminated, distributed, or published without the prior written consent of Alibaba Cloud and/or its affiliates. The names owned by Alibaba Cloud shall not be used, published, or reproduced for marketing, advertising, promotion, or other purposes without the prior written consent of Alibaba Cloud. The names owned by Alibaba Cloud include, but are not limited to, "Alibaba Cloud", "Aliyun", "HiChina", and other brands of Alibaba Cloud and/or its affiliates, which appear separately or in combination, as well as the auxiliary signs and patterns of the preceding brands, or anything similar to the company names, trade names, trademarks, product or service names, domain names, patterns, logos, marks, signs, or special descriptions that third parties identify as Alibaba Cloud and/or its affiliates.
6. Please directly contact Alibaba Cloud for any errors of this document.

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.API Overview	06
2.Make API requests	08
3.Common parameters	11
4.Manage permissions on PrivateLink by using RAM	13
5.RAM user authorization	20
6.How to ensure idempotence	23
7.DescribeRegions	24
8.DescribeZones	26
9.Endpoint services	29
9.1. CreateVpcEndpointService	29
9.2. UpdateVpcEndpointServiceAttribute	33
9.3. GetVpcEndpointServiceAttribute	36
9.4. ListVpcEndpointServices	39
9.5. DeleteVpcEndpointService	44
10.Service whitelist	47
10.1. AddUserToVpcEndpointService	47
10.2. ListVpcEndpointServiceUsers	49
10.3. RemoveUserFromVpcEndpointService	51
11.Service resources	55
11.1. AttachResourceToVpcEndpointService	55
11.2. ListVpcEndpointServiceResources	58
11.3. DetachResourceFromVpcEndpointService	60
12.Endpoints	64
12.1. CreateVpcEndpoint	64
12.2. UpdateVpcEndpointAttribute	69
12.3. GetVpcEndpointAttribute	72

12.4. ListVpcEndpoints	75
12.5. ListVpcEndpointServicesByEndUser	80
12.6. DeleteVpcEndpoint	83
13.Endpoint connections	86
13.1. EnableVpcEndpointConnection	86
13.2. UpdateVpcEndpointConnectionAttribute	88
13.3. ListVpcEndpointConnections	91
13.4. DisableVpcEndpointConnection	97
14.Zones	100
14.1. AddZoneToVpcEndpoint	100
14.2. ListVpcEndpointZones	102
14.3. RemoveZoneFromVpcEndpoint	105
15.Security groups	109
15.1. AttachSecurityGroupToVpcEndpoint	109
15.2. ListVpcEndpointSecurityGroups	111
15.3. DetachSecurityGroupFromVpcEndpoint	114

1.API Overview

This topic lists the available API operations for PrivateLink. Click the following hyperlinks to view the corresponding topics.

Endpoint services

API	Description
CreateVpcEndpointService	Creates an endpoint service.
UpdateVpcEndpointServiceAttribute	Modifies an endpoint service.
GetVpcEndpointServiceAttribute	Queries the details of an endpoint service.
ListVpcEndpointServices	Queries endpoint services.
DeleteVpcEndpointService	Deletes an endpoint service.
DescribeRegions	Queries regions.
DescribeZones	Queries the list of zones in a specific region.

Service whitelist

API	Description
AddUserToVpcEndpointService	Adds account IDs to the whitelist of an endpoint service.
ListVpcEndpointServiceUsers	Queries the whitelist of an endpoint service.
RemoveUserFromVpcEndpointService	Removes account IDs from the whitelist of an endpoint service.

Service resources

API	Description
AttachResourceToVpcEndpointService	Adds a service resource to an endpoint service.
ListVpcEndpointServiceResources	Queries the service resources that are added to an endpoint service.
DetachResourceFromVpcEndpointService	Removes a service resource from an endpoint service.

Endpoints

API	Description
CreateVpcEndpoint	Creates an endpoint.
UpdateVpcEndpointAttribute	Modifies an endpoint.
GetVpcEndpointAttribute	Queries the details of an endpoint.
ListVpcEndpoints	Queries the list of endpoints.
ListVpcEndpointServicesByEndUser	Queries the endpoint services that can be associated with the endpoints created by the current account.
DeleteVpcEndpoint	Deletes an endpoint.

Endpoint connections

API	Description
EnableVpcEndpointConnection	Accepts the connection request from an endpoint.
UpdateVpcEndpointConnectionAttribute	Modifies the maximum bandwidth of an endpoint connection.
ListVpcEndpointConnections	Queries an endpoint connection.
DisableVpcEndpointConnection	Rejects the connection request from an endpoint.

Zones

API	Description
AddZoneToVpcEndpoint	Adds a zone for an endpoint.
ListVpcEndpointZones	Queries zones of an endpoint.
RemoveZoneFromVpcEndpoint	Deletes a zone from an endpoint.

Security groups

API	Description
AttachSecurityGroupToVpcEndpoint	Associates an endpoint with a security group.
ListVpcEndpointSecurityGroups	Queries the security group with which an endpoint is associated.
DetachSecurityGroupFromVpcEndpoint	Disassociates an endpoint from a security group.

2. Make API requests

To call the PrivateLink API, you must send an HTTP GET request to the endpoint of the PrivateLink API. You must add request parameters that correspond to the API operation that you want to call. After you call the API operation, the system returns a response. Requests and responses are encoded in UTF-8.

 **Note** To call a PrivateLink API operation, you must send an HTTPS request to the PrivateLink endpoint.

Request syntax

PrivateLink API operations use the Remote Procedure Call (RPC) protocol. You can call PrivateLink API operations by sending HTTP GET requests.

The following request syntax is used:

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

where:

- **Endpoint:** the endpoint of the PrivateLink API. The endpoint is `privatelink.aliyuncs.com`.
- **Action:** the name of the operation that you want to perform. For example, to create an endpoint service, set the Action parameter to `CreateVpcEndpointServiceConfiguration`.
- **Version:** the version number of the API that you want to call. The version of the PrivateLink API is `2019-02-18`.
- **Parameters:** the request parameters for the operation. Separate multiple parameters with ampersands (&).

Request parameters include common parameters and custom parameters. Common request parameters include information such as the API version number and authentication information. For more information, see [Common parameters](#).

The following example demonstrates how to call the `CreateVpcEndpointServiceConfiguration` operation to create an endpoint service:

 **Note** The following code has been formatted to ease reading.

```
https://privatelink.cn-huhehaote.aliyuncs.com/?Action=CreateVpcEndpointServiceConfiguration
&Format=xml
&Version=2019-02-18
&Signature=xxxx%xxxxx%3D
&SignatureMethod=HMAC-SHA1
&SignatureNonce=15215528852396
&SignatureVersion=1.0
&AccessKeyId=key-test
&Timestamp=2012-06-01T12:00:00Z
...
```

Authorization

For security reasons, we recommend that you call the PrivateLink API as a Resource Access Management (RAM) user. Before you call the PrivateLink API as a RAM user, you must create a RAM user and grant the RAM user the required permissions.

For more information about PrivateLink resources and operations that you can authorize a RAM user to use, see [RAM user authorization](#).

Signature introduction:

You must sign all API requests to ensure security. Alibaba Cloud uses the request signature to verify the identity of the API caller.

PrivateLink implements symmetric encryption with an AccessKey pair to verify the identity of a request sender. An AccessKey pair is an identity credential issued to Alibaba Cloud accounts and RAM users. It is similar to a pair of username and password. The AccessKey ID is used to verify the identity of the user. The AccessKey secret is used to encrypt the signature string and is also used by the server to verify the signature string. The AccessKey secret must be kept confidential.

You must add the signature to an RPC API request in the following format:

```
https://endpoint/?SignatureVersion=1.0&SignatureMethod=HMAC-SHA1&Signature=xxxx%3D&SignatureNonce=3ee8c1b8-83d3-44af-a94f-4e0ad82fd6cf
```

Take `CreateVpcEndpointServiceConfiguration` as an example. If your AccessKey ID is `testid`, and your AccessKey secret is `testsecret`, the URL before the request is signed is:

```
https://privatelink.cn-huhehaote.aliyuncs.com/?Action=CreateVpcEndpointServiceConfiguration
&Timestamp=2016-02-23T12:46:24Z
&Format=XML
&AccessKeyId=testid
&SignatureMethod=HMAC-SHA1
&SignatureNonce=3ee8c1b8-83d3-44af-a94f-4e0ad82fd6cf
&Version=2019-02-18
&SignatureVersion=1.0
```

Perform the following operations to calculate the signature:

1. Create a string-to-sign by using the request parameters:

```
GET&%2F&AccessKeyId%3Dtestid&Action%3DCreateVpcEndpointServiceConfiguration&Format%3DXML&SignatureMethod%3DHMAC-SHA1&SignatureNonce%3D3ee8c1b8-83d3-44af-a94f-4e0ad82fd6cf&SignatureVersion%3D1.0&TimeStamp%3D2016-02-23T12%253A46%253A24Z&Version%3D2019-02-18
```

2. Calculate the HMAC value of the string-to-sign

Append an ampersand (&) to the AccessKey secret as the key to calculate the HMAC value. In this example, the key is `testsecret&`.

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

3. Add the signature string to the request as the signature parameter:

```
https://privatelink.cn-huhehaote.aliyuncs.com/?Action=CreateVpcEndpointServiceConfiguration
&Timestamp=2016-02-23T12:46:24Z
&Format=XML
&AccessKeyId=testid
&SignatureMethod=HMAC-SHA1
&SignatureNonce=3ee8c1b8-83d3-44af-a94f-4e0ad82fd6cf
&Version=2019-02-18
&SignatureVersion=1.0
&Signature=xxxx%3D
```

3.Common parameters

Common parameters include common request parameters and common response parameters.

Common request parameters

Common request parameters must be included in all API requests.

Common request parameters

Parameter	Type	Required	Description
Format	String	No	The format in which the response is returned. Valid values: <i>JSON and XML. Default value: JSON.</i>
Version	String	Yes	The version number of the API. Format: <code>YYYY-MM-DD</code> . Set the value to: <i>2020-04-15</i>
AccessKeyId	String	Yes	The AccessKey ID provided to you by Alibaba Cloud.
Signature	String	Yes	The signature string of the API request.
SignatureMethod	String	Yes	The encryption method of the signature string. Set the value to: <i>HMAC-SHA1</i>
Timestamp	String	Yes	The timestamp of the request. Specify the time in the ISO 8601 standard in the <code>YYYY-MM-DDThh:mm:ssZ</code> format. The time must be in UTC. Example: 2013-01-10T12:00:00Z, which indicates 20:00:00 on January 10, 2013 (UTC+8).
SignatureVersion	String	Yes	The version of the signature encryption algorithm. Set the value to: <i>1.0</i>
SignatureNonce	String	Yes	A unique, random number that is used to prevent replay attacks. You must use different numbers for different requests.

Common response parameters

API responses use the HTTP response format where a 2xx status code indicates a successful call and a 4xx or 5xx status code indicates a failed call. Responses can be returned in JSON or XML format. You can specify the response format in the request. The default response format is XML.

Every response returns a unique RequestID regardless of whether the call is successful.

- XML format

```
<? xml version="1.0" encoding="utf-8"? >
<!--The root node of the result-->
<Operation name+Response>
  <!--Return request tag-->
  <RequestId>4C467B38-3910-447D-87BC-AC049166F216</RequestId>
  <!--Return result data-->
</Operation name+Response>
```

- JSON format

```
{
  "RequestId":"4C467B38-3910-447D-87BC-AC049166F216",
  /*Returned data*/
}
```

4. Manage permissions on PrivateLink by using RAM

This topic describes how to manage permissions on PrivateLink by using Resource Access Management (RAM). In the RAM console, you can create custom permission policies and attach them to RAM users to regulate access control for PrivateLink.

Prerequisites

An Alibaba Cloud account is created. To create an Alibaba Cloud account, go to the Alibaba Cloud official website. For more information, see [Create an Alibaba Cloud account](#).

Basic information

The following table lists the common policies that are used to manage permissions on PrivateLink.

Policy	Description
AliyunPrivateLinkFullAccess	Grants a RAM user the permissions to manage PrivateLink.
AliyunPrivateLinkReadOnlyAccess	Grants a RAM user the read-only permissions on PrivateLink.
AliyunEndpointServiceFullAccess	Grants a RAM user the permissions to manage endpoint services.
AliyunEndpointServiceReadOnlyAccess	Grants a RAM user the read-only permissions on endpoint services.
AliyunEndpointFullAccess	Grants a RAM user the permissions to manage endpoints.
AliyunEndpointReadOnlyAccess	Grants a RAM user the read-only permissions on endpoints.

 **Note** For more information about permissions on PrivateLink, see [RAM user authorization](#).

Attach a custom permission policy to a RAM user

1. Create a custom permission policy. For more information, see [Create a custom policy](#) and [Examples](#).
2. On the **Policies** page, click the name of the permission policy.
3. On the **References** tab, click **Grant Permission**.
4. In the **Add Permissions** pane, enter the name or ID of the user in the **Principal** field, and then click **OK**.

 **Note** You can also attach existing permission policies to a RAM user or RAM user group. For more information, see [Grant permissions to a RAM user](#) and [Grant permissions to a RAM user group](#).

Examples

- Grant a RAM user the permissions to perform all PrivateLink-related operations.

```
{
  "Version": "1",
  "Statement": [
    {
      "Action": [
        "privatelink:CreateVpcEndpointService",
        "privatelink:ListVpcEndpointServices",
        "privatelink:UpdateVpcEndpointServiceAttribute",
        "privatelink:GetVpcEndpointServiceAttribute",
        "privatelink:AttachResourceToVpcEndpointService",
        "privatelink:ListVpcEndpointServiceResources",
        "privatelink:DetachResourceFromVpcEndpointService",
        "privatelink>DeleteVpcEndpointService",
        "privatelink:ListVpcEndpointConnections",
        "privatelink:UpdateVpcEndpointConnectionAttribute",
        "privatelink:EnableVpcEndpointConnection",
        "privatelink:DisableVpcEndpointConnection",
        "privatelink:AddUserToVpcEndpointService",
        "privatelink:RemoveUserFromVpcEndpointService",
        "privatelink:ListVpcEndpointServiceUsers",
        "privatelink:CreateVpcEndpoint",
        "privatelink:ListVpcEndpoints",
        "privatelink:UpdateVpcEndpointAttribute",
        "privatelink:GetVpcEndpointAttribute",
        "privatelink:AddZoneToVpcEndpoint",
        "privatelink:RemoveZoneFromVpcEndpoint",
        "privatelink:ListVpcEndpointSecurityGroups",
        "privatelink:AttachSecurityGroupToVpcEndpoint",
        "privatelink:DetachSecurityGroupFromVpcEndpoint",
        "privatelink:ListVpcEndpointZones",
        "privatelink>DeleteVpcEndpoint",
        "vpc:DescribeVpcs",
        "ecs:DescribeSecurityGroups",
        "vpc:DescribeVSwitches",
        "slb:DescribeLoadBalancers"
      ],
      "Resource": "*",
      "Effect": "Allow"
    },
    {
      "Action": [
        "ram:CreateServiceLinkedRole"
      ],
      "Resource": "acs:ram:*:*:role/*",
      "Condition": {
        "StringEquals": {
          "ram:ServiceName": "privatelink.aliyuncs.com"
        }
      },
      "Effect": "Allow"
    }
  ]
}
```

- Grant a RAM user the read-only permissions on PrivateLink.

```
{
  "Version": "1",
  "Statement": [
    {
      "Action": [
        "privatelink:ListVpcEndpointServices",
        "privatelink:GetVpcEndpointServiceAttribute",
        "privatelink:ListVpcEndpointServiceResources",
        "privatelink:ListVpcEndpointConnections",
        "privatelink:ListVpcEndpointServiceUsers",
        "privatelink:ListVpcEndpoints",
        "privatelink:ListVpcEndpointSecurityGroups",
        "privatelink:GetVpcEndpointAttribute",
        "privatelink:ListVpcEndpointZones",
        "vpc:DescribeVpcs",
        "ecs:DescribeSecurityGroups",
        "vpc:DescribeVSwitches",
        "slb:DescribeLoadBalancers"
      ],
      "Resource": "*",
      "Effect": "Allow"
    }
  ]
}
```

- Authorize a RAM user to perform all endpoint service-related operations.

```
{
  "Version": "1",
  "Statement": [
    {
      "Action": [
        "privatelink:CreateVpcEndpointService",
        "privatelink:ListVpcEndpointServices",
        "privatelink:UpdateVpcEndpointServiceAttribute",
        "privatelink:GetVpcEndpointServiceAttribute",
        "privatelink:AttachResourceToVpcEndpointService",
        "privatelink:ListVpcEndpointServiceResources",
        "privatelink:DetachResourceFromVpcEndpointService",
        "privatelink>DeleteVpcEndpointService",
        "privatelink:ListVpcEndpointConnections",
        "privatelink:UpdateVpcEndpointConnectionAttribute",
        "privatelink:EnableVpcEndpointConnection",
        "privatelink:DisableVpcEndpointConnection",
        "privatelink:AddUserToVpcEndpointService",
        "privatelink:RemoveUserFromVpcEndpointService",
        "privatelink:ListVpcEndpointServiceUsers",
        "slb:DescribeLoadBalancers"
      ],
      "Resource": "*",
      "Effect": "Allow"
    }
  ]
}
```

- Grant a RAM user the read-only permissions on all endpoint services.

```
{
  "Version": "1",
  "Statement": [
    {
      "Action": [
        "privatelink:ListVpcEndpointServices",
        "privatelink:GetVpcEndpointServiceAttribute",
        "privatelink:ListVpcEndpointServiceResources",
        "privatelink:ListVpcEndpointConnections",
        "privatelink:ListVpcEndpointServiceUsers",
        "slb:DescribeLoadBalancers"
      ],
      "Resource": "*",
      "Effect": "Allow"
    }
  ]
}
```

- Grant a RAM user the permissions to perform all endpoint-related operations.

```
{
  "Version": "1",
  "Statement": [
    {
      "Action": [
        "privatelink:ListVpcEndpointServices",
        "privatelink:CreateVpcEndpoint",
        "privatelink:ListVpcEndpoints",
        "privatelink:UpdateVpcEndpointAttribute",
        "privatelink:GetVpcEndpointAttribute",
        "privatelink:ListVpcEndpointSecurityGroups",
        "privatelink:AttachSecurityGroupToVpcEndpoint",
        "privatelink:DetachSecurityGroupFromVpcEndpoint",
        "privatelink:AddZoneToVpcEndpoint",
        "privatelink:RemoveZoneFromVpcEndpoint",
        "privatelink:ListVpcEndpointZones",
        "privatelink>DeleteVpcEndpoint",
        "vpc:DescribeVpcs",
        "ecs:DescribeSecurityGroups",
        "vpc:DescribeVSwitches"
      ],
      "Resource": "*",
      "Effect": "Allow"
    },
    {
      "Action": [
        "ram:CreateServiceLinkedRole"
      ],
      "Resource": "acs:ram:*:*:role/*",
      "Condition": {
        "StringEquals": {
          "ram:ServiceName": "privatelink.aliyuncs.com"
        }
      },
      "Effect": "Allow"
    }
  ]
}
```

- Grant a RAM user the read-only permissions on all endpoints.

```
{
  "Version": "1",
  "Statement": [
    {
      "Action": [
        "privatelink:ListVpcEndpointServices",
        "privatelink:ListVpcEndpoints",
        "privatelink:GetVpcEndpointAttribute",
        "privatelink:ListVpcEndpointZones",
        "privatelink:ListVpcEndpointSecurityGroups",
        "vpc:DescribeVpcs",
        "ecs:DescribeSecurityGroups",
        "vpc:DescribeVSwitches",
      ],
      "Resource": "*",
      "Effect": "Allow"
    }
  ]
}
```

5.RAM user authorization

Before you call the PrivateLink API as a RAM user, you must use an Alibaba Cloud account to create a permission policy and use the policy to authorize the RAM user. In the permission policy, Alibaba Cloud Resource Names (ARNs) are used to specify resources.

Types of PrivateLink resource that can be authorized

The following table lists the PrivateLink resources that can be authorized and their corresponding ARN formats. `$regionid:$accountid:endpoint/$endpointid` is the ID of specified resource, and the asterisk (`*`) represents all the corresponding resources.

Resource type	ARN format in the permission policy
Endpoint service (VpcEndpointService)	<code>acs:privatelink:\$regionid:\$accountid:vpcendpointservice/\$serviceid</code>
	<code>acs:privatelink:\$regionid:\$accountid:vpcendpointservice/*</code>
	<code>acs:privatelink:*\$accountid:vpcendpointservice/*</code>
Endpoint (VpcEndpoint)	<code>acs:privatelink:\$regionid:\$accountid:vpcendpoint/\$endpointid</code>
	<code>acs:privatelink:\$regionid:\$accountid:vpcendpoint/*</code>
	<code>acs:privatelink:*\$accountid:vpcendpoint/*</code>

PrivateLink API operations that can be authorized

The following table lists the PrivateLink API operations that can be authorized and their corresponding ARN formats. `$regionid:$accountid:endpoint/$endpointid` is the ID of specified resource, and the asterisk (`*`) represents all the corresponding resources.

API	ARN format in the permission policy
AddUserToVpcEndpointService	<code>acs:privatelink:{#regionId}:{#accountId}:vpcendpointservice/{#ServiceId}</code>
AttachResourceToVpcEndpointService	<code>acs:privatelink:{#regionId}:{#accountId}:vpcendpointservice/{#ServiceId}</code>
	Optional. <code>acs:slb:{#regionId}:{#accountId}:loadbalancer/{#LoadBalancerId}</code>
AddZoneToVpcEndpoint	<code>acs:privatelink:{#regionId}:{#accountId}:vpcendpoint/{#EndpointId}</code>
AttachSecurityGroupToVpcEndpoint	<code>acs:privatelink:{#regionId}:{#accountId}:vpcendpoint/{#EndpointId}</code>
	<code>acs:ecs:{#regionId}:{#accountId}:securitygroup/{#SecurityGroupId}</code>
CreateVpcEndpoint	<code>acs:privatelink:{#regionId}:{#accountId}:vpcendpoint/*</code>
	<code>acs:vpc:{#regionId}:{#accountId}:vpc/{#VpcId}</code>

CreateVpcEndpoint API	ARN format in the permission policy
	acs:vpc:{#regionId}:{#accountId}:securitygroup/{#SecurityGroupId}
	Optional. acs:vpc:{#regionId}:{#accountId}:vswitch/{#VSwitchId}
CreateVpcEndpointService	acs:privatelink:{#regionId}:{#accountId}:vpcendpointservice/*
	Optional. acs:slb:{#regionId}:{#accountId}:loadbalancer/{#LoadBalancerId}
DeleteVpcEndpoint	acs:privatelink:{#regionId}:{#accountId}:vpcendpoint/{#EndpointId}
DeleteVpcEndpointService	acs:privatelink:{#regionId}:{#accountId}:vpcendpointservice/{#ServiceId}
DetachResourceFromVpcEndpointService	acs:privatelink:{#regionId}:{#accountId}:vpcendpointservice/{#ServiceId}
DetachSecurityGroupFromVpcEndpoint	acs:privatelink:{#regionId}:{#accountId}:vpcendpoint/{#EndpointId}
DisableVpcEndpointConnection	acs:privatelink:{#regionId}:{#accountId}:vpcendpointservice/{#ServiceId}
EnableVpcEndpointConnection	acs:privatelink:{#regionId}:{#accountId}:vpcendpointservice/{#ServiceId}
GetVpcEndpointAttribute	acs:privatelink:{#regionId}:{#accountId}:vpcendpoint/{#EndpointId}
GetVpcEndpointServiceAttribute	acs:privatelink:{#regionId}:{#accountId}:vpcendpointservice/{#ServiceId}
ListVpcEndpointConnections	acs:privatelink:{#regionId}:{#accountId}:vpcendpointservice/*
ListVpcEndpoints	acs:privatelink:{#regionId}:{#accountId}:vpcendpoint/*
ListVpcEndpointSecurityGroups	acs:privatelink:{#regionId}:{#accountId}:vpcendpoint/{#EndpointId}
ListVpcEndpointServiceResources	acs:privatelink:{#regionId}:{#accountId}:vpcendpointservice/{#ServiceId}
ListVpcEndpointServices	acs:privatelink:{#regionId}:{#accountId}:vpcendpointservice/*
ListVpcEndpointServiceUsers	acs:privatelink:{#regionId}:{#accountId}:vpcendpointservice/{#ServiceId}
ListVpcEndpointZones	acs:privatelink:{#regionId}:{#accountId}:vpcendpoint/{#EndpointId}
RemoveUserFromVpcEndpointService	acs:privatelink:{#regionId}:{#accountId}:vpcendpointservice/{#ServiceId}

API	ARN format in the permission policy
RemoveZoneFromVpcEndpoint	<code>acs:privatelink:{#regionId}:{#accountId}:vpcendpoint/{#EndpointId}</code>
UpdateVpcEndpointAttribute	<code>acs:privatelink:{#regionId}:{#accountId}:vpcendpoint/{#EndpointId}</code>
UpdateVpcEndpointConnectionAttribute	<code>acs:privatelink:{#regionId}:{#accountId}:vpcendpointservice/{#ServiceId}</code>
UpdateVpcEndpointServiceAttribute	<code>acs:privatelink:{#regionId}:{#accountId}:vpcendpointservice/{#ServiceId}</code>
ListVpcEndpointServicesByEndUser	<code>Condition: privatelink:VpcEndpointServiceIdacs:privatelink:*.~.*</code>
DescribeRegions	No authorization is required.
DescribeZones	No authorization is required.

6. How to ensure idempotence

If a request times out or an internal server error occurs when you call a PrivateLink operation, the client attempts to resend the request. In this case, you can specify the `ClientToken` parameter in the request to prevent the client from repeatedly sending the request.

What is idempotence

Idempotence is the property of certain operations or resources in mathematics and computer science whereby they can be applied multiple times without changing the result beyond the initial application. Idempotence plays an important role in distributed system design.

Ensure idempotence

In most cases, a client attempts to resend a request only when the HTTP status code 500 with the `InternalServerError` error code is returned, the HTTP status code 503 with the `ServiceUnavailable` error code is returned, or when no response is returned. When you call the PrivateLink API, the client generates a parameter value with a maximum of 64 ASCII characters, and assigns the value to `ClientToken`. This can ensure the idempotence of the requests that the client resends.

ClientToken details

The following information lists the details about the `ClientToken` parameter.

- `ClientToken` is a unique and case-sensitive string that is generated by a client and can contain up to 64 ASCII characters in length. Example: `ClientToken=123e4567-e89b-12d3-a456-426655440000`.
- If you retry a request with the same `ClientToken` but different request parameters, PrivateLink returns the error code `IdempotentParameterMismatch`.

 **Note** You must change the values of `SignatureNonce`, `Timestamp`, and `Signature` when you retry an API request. This is because PrivateLink uses `SignatureNonce` to prevent replay attacks and uses `Timestamp` to record the time when each request is sent. Therefore, you must specify different `SignatureNonce` and `Timestamp` values in a retried request. Consequently, this changes the value of `Signature`.

- After you add the `ClientToken` parameter to a retried request:
 - If HTTP status code 200 is returned, this indicates that the same result as the last request is returned and your server status is not affected.
 - If HTTP status code 4xx is returned, the retried request fails. You must troubleshoot the error based on the error message. An exception is that the status code is returned with the error message `try it later`. This indicates that the server is busy. Try again later.

7.DescribeRegions

Queries regions.

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	DescribeRegions	The operation that you want to perform. Set the value to DescribeRegions .
RegionId	String	No	eu-west-1	The ID of the region.

Response parameters

Parameter	Type	Example	Description
Regions	Array of Region		The list of regions.
Region			
LocalName	String	UK (London)	The name of the region.
RegionEndpoint	String	https://privatelink.eu-west-1.aliyuncs.com	The endpoint of the region.
RegionId	String	eu-west-1	The ID of the region.
RequestId	String	611CB80C-B6A9-43DB-9E38-0B0AC3D9B58F	The ID of the request.

Examples

Sample requests

```
https://[Endpoint]/?Action=DescribeRegions
&<Common request parameters>
```

Sample success responses

XML format

```
<DescribeRegionsResponse>
  <RequestId>611CB80C-B6A9-43DB-9E38-0B0AC3D9B58F</RequestId>
  <Region>
    <RegionId>eu-west-1</RegionId>
    <RegionEndpoint>privatelink.eu-west-1.aliyuncs.com</RegionEndpoint>
    <LocalName>UK (London)</LocalName>
  </Region>
</DescribeRegionsResponse>
```

JSON format

```
{
  "DescribeRegionsResponse": {
    "RequestId": "611CB80C-B6A9-43DB-9E38-0B0AC3D9B58F",
    "Region": {
      "RegionId": "eu-west-1",
      "RegionEndpoint": "privatelink.eu-west-1.aliyuncs.com",
      "LocalName": "UK (London)"
    }
  }
}
```

Error codes

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

8.DescribeZones

Queries zones in a specified region.

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	DescribeZones	The operation that you want to perform. Set the value to DescribeZones .
RegionId	String	Yes	cn-hangzhou	The ID of the region where zones are queried. You can call the DescribeRegions operation to query region IDs.

Response parameters

Parameter	Type	Example	Description
RequestId	String	611CB80C-B6A9-43DB-9E38-0B0AC3D9B58F	The ID of the request.
Zones	Array of Zone		The list of zones.
Zone			
LocalName	String	Hangzhou Zone B	The name of the zone.
ZoneId	String	cn-hangzhou-b	The ID of the zone.

Examples

Sample requests

```
https://[Endpoint]/?Action=DescribeZones
&RegionId=cn-hangzhou
&<Common request parameters>
```

Sample success responses

XML format

```
<DescribeZonesResponse>
  <RequestId>6FEA0CF3-D3B9-43E5-A304-D217037876A8</RequestId>
  <Zones>
    <Zone>
      <ZoneId>cn-hangzhou-b</ZoneId>
      <LocalName>Hangzhou Zone B</LocalName>
    </Zone>
    <Zone>
      <ZoneId>cn-hangzhou-d</ZoneId>
      <LocalName>Hangzhou Zone D</LocalName>
    </Zone>
    <Zone>
      <ZoneId>cn-hangzhou-e</ZoneId>
      <LocalName>Hangzhou Zone E</LocalName>
    </Zone>
    <Zone>
      <ZoneId>cn-hangzhou-f</ZoneId>
      <LocalName>Hangzhou Zone F</LocalName>
    </Zone>
    <Zone>
      <ZoneId>cn-hangzhou-g</ZoneId>
      <LocalName>Hangzhou Zone G</LocalName>
    </Zone>
    <Zone>
      <ZoneId>cn-hangzhou-h</ZoneId>
      <LocalName>Hangzhou Zone H</LocalName>
    </Zone>
  </Zones>
</DescribeZonesResponse>
```

JSON format

```
{
  "RequestId": "6FEA0CF3-D3B9-43E5-A304-D217037876A8",
  "Zones": {
    "Zone": [
      {
        "ZoneId": "cn-hangzhou-b",
        "LocalName": "Hangzhou Zone B"
      },
      {
        "ZoneId": "cn-hangzhou-d",
        "LocalName": "Hangzhou Zone D"
      },
      {
        "ZoneId": "cn-hangzhou-e",
        "LocalName": "Hangzhou Zone E"
      },
      {
        "ZoneId": "cn-hangzhou-f",
        "LocalName": "Hangzhou Zone F"
      },
      {
        "ZoneId": "cn-hangzhou-g",
        "LocalName": "Hangzhou Zone G"
      },
      {
        "ZoneId": "cn-hangzhou-h",
        "LocalName": "Hangzhou Zone H"
      }
    ]
  }
}
```

Error codes

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

9.Endpoint services

9.1. CreateVpcEndpointService

Creates an endpoint service.

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	CreateVpcEndpointService	The operation that you want to perform. Set the value to CreateVpcEndpointService .
RegionId	String	Yes	eu-west-1	The ID of the region where the endpoint service is deployed. You can call the DescribeRegions operation to query region IDs.
ClientToken	String	No	0c593ea1-3bea-11e9-b96b-88e9fe637760	The client token that is used to ensure the idempotence of the request. You can use the client to generate a value that is unique among different requests. ClientToken can contain only ASCII characters and cannot exceed 64 characters in length.

Parameter	Type	Required	Example	Description
DryRun	Boolean	No	false	Specifies whether to only check the API request. Valid values: true: only checks the API request. If you select this option, the specified endpoint service is not created after the request passes the check. Check items include whether the AccessKey pair is valid, whether the RAM user is authorized, and whether the required parameters are specified. If the request fails to meet the requirements in the check items, an error message is returned. If the request meets the requirements in the check items, the DryRunOperation error code is returned. false (default): checks the API request. After the request passes the check, the 2XX HTTP status code is returned, and the endpoint service is created.
Resource.N.ResourceId	String	No	lb-hp32z1wp5peaox2q****	Service resources added to the endpoint service. Valid values of N: 1 to 20.
Resource.N.ResourceType	String	No	slb	The type of service resource. Set the value to slb (SLB instances that support PrivateLink and are deployed in a VPC). Valid values of N: 1 to 20.  Note Only Server Load Balancer (SLB) instances that support PrivateLink can serve as service resources for endpoint services.
Resource.N.ZoneId	String	No	eu-west-1a	The zone to which the service resource belongs. Valid values of N: 1 to 20.

Parameter	Type	Required	Example	Description
ServiceDescription	String	No	This is my EndpointService.	Enter a description for the endpoint service.
AutoAcceptEnabled	Boolean	No	false	Specifies whether to automatically accept endpoint connection requests. Valid values: true: automatically accepts endpoint connection requests. false: does not automatically accept endpoint connection requests.

Response parameters

Parameter	Type	Example	Description
AutoAcceptEnabled	Boolean	false	Indicates whether the endpoint service automatically accepts endpoint connection requests. Valid values: true: automatically accepts endpoint connection requests. false: does not automatically accept endpoint connection requests.
CreateTime	String	2020-01-02T19:11:12Z	The time when the endpoint service was created.
RequestId	String	8D8992C1-6712-423C-BAC5-E5E817484C6B	The ID of the request.
ServiceBusinessStatus	String	Normal	The business status of the endpoint service. Valid values: Normal: normal FinancialLocked: locked due to overdue payments.
ServiceDescription	String	This is my EndpointService.	The description of the endpoint service.
ServiceDomain	String	epsrv-hp3vpx8yqxblby3i***.cn-huhehaote.privatelink.aliyuncs.com	The domain name of the endpoint service.

Parameter	Type	Example	Description
ServiceId	String	epsrv-hp3vp8yqxblby3i*** *	The ID of the endpoint service.
ServiceName	String	com.aliyuncs.private link.cn-huhehaote.epsrv- hp3vp8yqxblby3i*** *	The name of the endpoint service.
ServiceStatus	String	Active	The status of the endpoint service. Valid values: • Creating: The endpoint service is being created. • Pending: The endpoint service is being modified. • Active: The endpoint service is available. • Deleting: The endpoint service is being deleted. • Inactive: The endpoint service is unavailable.

Examples

Sample requests

```
https://[Endpoint]/?Action=CreateVpcEndpointService
&RegionId=eu-west-1
&<Common request parameters>
```

Sample success responses

XML format

```
<CreateVpcEndpointServiceResponse>
  <RequestId>8D8992C1-6712-423C-BAC5-E5E817484C6B</RequestId>
  <ServiceId>serv-abc</ServiceId>
  <ServiceName>com.aliyun.privatelink.serv-abc</ServiceName>
  <ServiceDomain>serv-abc.privatelink.aliyun.com</ServiceDomain>
  <ServiceDescription>haha</ServiceDescription>
  <AutoAcceptEnabled>true</AutoAcceptEnabled>
  <ServiceStatus>Active</ServiceStatus>
  <ServiceBusinessStatus>Normal</ServiceBusinessStatus>
  <CreateTime>2020-01-02T19:11:12Z</CreateTime>
</CreateVpcEndpointServiceResponse>
```

JSON format

```
{
  "RequestId": "8D8992C1-6712-423C-BAC5-E5E817484C6B",
  "ServiceId": "serv-abc",
  "ServiceName": "com.aliyun.privatelink.serv-abc",
  "ServiceDomain": "serv-abc.privatelink.aliyun.com",
  "ServiceDescription": "haha",
  "AutoAcceptEnabled": true,
  "ServiceStatus": "Active",
  "ServiceBusinessStatus": "Normal",
  "CreateTime": "2020-01-02T19:11:12Z"
}
```

Error codes

HttpCode	Error code	Error message	Description
400	EndpointServiceExist	The specified Endpoint Service already exists.	The error message returned because the specified endpoint service already exists.
400	AlbNotFound	The specified Alb does not exist.	The error message returned because the specified Alibaba Cloud internal SLB instance does not exist.
400	LoadBalancerNotFound	The specified load balancer does not exist.	The error message returned when the specified SLB instance does not exist.
400	LoadBalancerNotSupportPrivateLink	The specified SLB does not support PrivateLink.	The error message returned because the specified SLB instance does not support PrivateLink.
400	GenerateResourceIdFailed	Failed to generate ResourceId.	The error message returned because the system failed to generate the resource ID.

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

9.2. UpdateVpcEndpointServiceAttribute

Modifies an endpoint service.

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	UpdateVpcEndpointServiceAttribute	The operation that you want to perform. Set the value to UpdateVpcEndpointServiceAttribute .
RegionId	String	Yes	eu-west-1	The ID of the region where the endpoint service is created. You can call the DescribeRegions operation to query region IDs.
ServiceId	String	Yes	epsrv-hp3vpx8yqxbly3j****	The ID of the endpoint service.
ClientToken	String	No	0c593ea1-3bea-11e9-b96b-88e9fe637760	The client token that is used to ensure the idempotence of the request. You can use the client to generate a value that is unique among different requests. ClientToken can contain only ASCII characters and cannot exceed 64 characters in length.
DryRun	Boolean	No	false	Specifies whether to only check the API request. Valid values: true : only checks the API request. If you select this option, the endpoint service is not modified. Check items include whether the AccessKey pair is valid, whether the RAM user is authorized, and whether the required parameters are specified. If the request fails to meet the requirements in the check items, an error message is returned. If the request meets the requirements in the check items, the DryRunOperation error code is returned. false (default): checks the API request. After the request passes the check, the 2XX HTTP status code is returned, and the endpoint service is modified.
ServiceDescription	String	No	This is my EndpointService.	The description of the endpoint service.

Parameter	Type	Required	Example	Description
AutoAcceptEnabled	Boolean	No	false	Specifies whether to automatically accept endpoint connection requests. Valid values: true: automatically accepts endpoint connection requests. false: manually accepts endpoint connection requests.
ConnectBandwidth	Integer	No	1024	The default maximum bandwidth of the endpoint connection. Valid values: 100 to 1024 . Unit: Mbit/s.

Response parameters

Parameter	Type	Example	Description
RequestId	String	8D8992C1-6712-423C-BAC5-E5E817484C6B	The ID of the request.

Examples

Sample requests

```
https://[Endpoint]/?Action=UpdateVpcEndpointServiceAttribute
&RegionId=eu-west-1
&ServiceId=epsrv-hp3vpx8yqxbly3i****
&<Common request parameters>
```

Sample success responses

XML format

```
<UpdateVpcEndpointServiceAttributeResponse>
  <RequestId>8D8992C1-6712-423C-BAC5-E5E817484C6B</RequestId>
</UpdateVpcEndpointServiceAttributeResponse>
```

JSON format

```
{
  "RequestId": "8D8992C1-6712-423C-BAC5-E5E817484C6B"
}
```

Error codes

HttpCode	Error code	Error message	Description
400	EndpointServiceNotFound	The specified Service does not exist.	The error message returned because the specified endpoint service does not exist.
400	EndpointServiceLocked	The specified Service is locked.	The error message returned because the endpoint service is locked.
400	EndpointServiceOperationDenied	The specified operation of endpoint service is not allowed.	The error message returned because the operation is not allowed when the endpoint service is being processed.

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

9.3. GetVpcEndpointServiceAttribute

Queries the details of an endpoint service.

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	GetVpcEndpointServiceAttribute	The operation that you want to perform. Set the value to GetVpcEndpointServiceAttribute .
RegionId	String	Yes	eu-west-1	The ID of the region where the endpoint service is created. You can call the DescribeRegions operation to query region IDs.
ServiceId	String	Yes	epsrv-hp3vpx8yqxblby3j****	The ID of the endpoint service.

Response parameters

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

Parameter	Type	Example	Description
AutoAcceptEnabled	Boolean	true	Indicates whether to automatically accept endpoint connection requests: true: automatically accepts endpoint connection requests. false: manually accepts endpoint connection requests.
ConnectBandwidth	Integer	1024	The default maximum bandwidth.
CreateTime	String	2020-01-02T19:11:12Z	The time when the endpoint service was created.
MaxBandwidth	Integer	1024	The maximum bandwidth of the endpoint connection.
MinBandwidth	Integer	100	The minimum bandwidth of the endpoint connection.
RegionId	String	eu-west-1	The ID of the region where the endpoint service is created.
RequestId	String	8D8992C1-6712-423C-BAC5-E5E817484C6B	The ID of the request.
ServiceBusinessStatus	String	Normal	The business status of the endpoint service. Valid values: Normal: normal FinancialLocked: locked due to overdue payments
ServiceDescription	String	This is my EndpointService.	The description of the endpoint service.
ServiceDomain	String	epsrv-hp3vp8yqxblby3i****.cn-huhehaote.privatelink.aliyuncs.com	The domain name of the endpoint service.
ServiceId	String	epsrv-hp3vp8yqxblby3i****	The ID of the endpoint service.

Parameter	Type	Example	Description
ServiceName	String	com.aliyuncs.private-link.cn-huhehaote.epsrv-hp3vp8yqxbly3i****	The name of the endpoint service.
ServiceStatus	String	Active	The status of the endpoint service. Valid values: • Creating: The endpoint service is being created. • Pending: The endpoint service is being modified. • Active: The endpoint service is available. • Deleting: The endpoint service is being deleted. • Inactive: The endpoint service is unavailable.
Zones	List	eu-west-1a	The zone to which the service resource belongs.

Examples

Sample requests

```
https://[Endpoint]/?Action=GetVpcEndpointServiceAttribute
&RegionId=eu-west-1
&ServiceId=epsrv-hp3vp8yqxbly3i****
&<Common request parameters>
```

Sample success responses

XML format

```
<GetVpcEndpointServiceAttributeResponse>
  <RequestId>8D8992C1-6712-423C-BAC5-E5E817484C6B</RequestId>
  <ServiceId>serv-abc</ServiceId>
  <ConnectBandwidth>1024</ConnectBandwidth>
  <CreateTime>2020-01-02T19:11:12Z</CreateTime>
  <MaxBandwidth>1024</MaxBandwidth>
  <MinBandwidth>100</MinBandwidth>
  <ServiceName>com.aliyun.privatelink.serv-abc</ServiceName>
  <ServiceDomain>serv-abc.privatelink.aliyun.com</ServiceDomain>
  <ServiceDescription>haha</ServiceDescription>
  <AutoAcceptEnabled>true</AutoAcceptEnabled>
  <ServiceStatus>Active</ServiceStatus>
  <ServiceBusinessStatus>Normal</ServiceBusinessStatus>
  <Zones>eu-west-1a</Zones>
  <RegionId>eu-west-1</RegionId>
</GetVpcEndpointServiceAttributeResponse>
```

JSON format

```
{
  "RequestId": "8D8992C1-6712-423C-BAC5-E5E817484C6B",
  "ServiceId": "serv-abc",
  "ConnectBandwidth": "1024",
  "CreateTime": "2020-01-02T19:11:12Z",
  "MaxBandwidth": "1024",
  "MinBandwidth": "100",
  "ServiceName": "com.aliyun.privatelink.serv-abc",
  "ServiceDomain": "serv-abc.privatelink.aliyun.com",
  "ServiceDescription": "haha",
  "AutoAcceptEnabled": true,
  "ServiceStatus": "Active",
  "ServiceBusinessStatus": "Normal",
  "Zones": "eu-west-1a",
  "RegionId": "eu-west-1"
}
```

Error codes

HttpCode	Error code	Error message	Description
400	EndpointServiceNotFound	The specified Service does not exist.	The error message returned because the specified endpoint service does not exist.

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

9.4. ListVpcEndpointServices

Queries the list of endpoint services.

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	ListVpcEndpointServices	The operation that you want to perform. Set the value to ListVpcEndpointServices .
RegionId	String	Yes	eu-west-1	The ID of the region where the endpoint service is created. You can call the DescribeRegions operation to query region IDs.
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: 1 to 50. Default value: 50.
ServiceId	String	No	epsrv-hp3vp8yqxbly3j****	The ID of the endpoint service.
ServiceName	String	No	com.aliyuncs.privateatelink.cn-huhehaote.epsrv-hp3vp8yqxbly3j****	The name of the endpoint service.
AutoAcceptEnabled	Boolean	No	false	Indicates whether to automatically accept endpoint connection requests. Valid values: true: automatically accepts endpoint connection requests. false: manually accepts endpoint connection requests.

Parameter	Type	Required	Example	Description
ServiceStatus	String	No	Active	The status of the endpoint service. Valid values: • Creating: The endpoint service is being created. • Pending: The endpoint service is being modified. • Active: The endpoint service is available. • Deleting: The endpoint service is being deleted.
ServiceBusinessStatus	String	No	Normal	The business status of the endpoint service. Valid values: • Normal: normal. • FinancialLocked: locked due to overdue payments.

Response parameters

Parameter	Type	Example	Description
MaxResults	String	100	The number of entries to return on each page.
NextToken	String	caeba0bbb2be03f84eb48b699f0a4883	The token required by the next query. If the NextToken parameter is empty, it indicates that no subsequent query will be sent.
RequestId	String	0ED8D006-F706-4D23-88ED-E11ED28DCAC0	The ID of the request.
Services	Array of Service		The list of endpoint services.
AutoAcceptEnabled	Boolean	true	Indicates whether to automatically accept endpoint connection requests: • true: automatically accepts endpoint connection requests. • false: manually accepts endpoint connection requests.
ConnectBandwidth	String	1024	Default maximum bandwidth of the endpoint connection.

Parameter	Type	Example	Description
CreateTime	String	2020-01-02T19:11:12Z	The time when the endpoint service was created.
MaxBandwidth	String	1024	The maximum bandwidth of the endpoint connection.
MinBandwidth	String	100	The minimum bandwidth of the endpoint connection.
RegionId	String	eu-west-1	The region where the endpoint service was created.
ServiceBusinessStatus	String	Normal	The business status of the endpoint service. Valid values: • Normal: normal • FinancialLocked: locked due to overdue payments.
ServiceDescription	String	This is my EndpointService.	Enter a description for the endpoint service.
ServiceDomain	String	epsrv-hp3vpx8yqxblby3i***.cn-huhehaote.privatelink.aliyuncs.com	The domain name of the endpoint service.
ServiceId	String	epsrv-hp3vpx8yqxblby3i***	The ID of the endpoint service.
ServiceName	String	com.aliyuncs.private-link.cn-huhehaote.epsrv-hp3vpx8yqxblby3i***	The name of the endpoint service.

Parameter	Type	Example	Description
ServiceStatus	String	Active	The status of the endpoint service. Valid values: • Creating: The endpoint service is being created. • Pending: The endpoint service is being modified. • Active: The endpoint service is available. • Deleting: The endpoint service is being deleted.

Examples

Sample requests

```
https://[Endpoint]/?Action=ListVpcEndpointServices
&RegionId=eu-west-1
&<Common request parameters>
```

Sample success responses

XML format

```
<ListVpcEndpointServicesResponse>
  <Services>
    <ServiceBusinessStatus>Normal</ServiceBusinessStatus>
    <ServiceName>com.aliyuncs.privatelink.cn-huhehaote.epsrv-hp3vp8yqxbly3i****</ServiceName>
    <ServiceStatus>Active</ServiceStatus>
    <ServiceDescription></ServiceDescription>
    <CreateTime>2020-09-09T02:26:51Z</CreateTime>
    <MaxBandwidth>1024</MaxBandwidth>
    <ConnectBandwidth>1024</ConnectBandwidth>
    <RegionId>cn-huhehaote</RegionId>
    <MinBandwidth>100</MinBandwidth>
    <ServiceDomain>epsrv-hp3vp8yqxbly3i****.cn-huhehaote.privatelink.aliyuncs.com</ServiceDomain>
    <AutoAcceptEnabled>false</AutoAcceptEnabled>
    <ServiceId>epsrv-hp3vp8yqxbly3i****</ServiceId>
  </Services>
  <RequestId>CBD4A69F-DD55-4021-A8AA-3A504095F8EC</RequestId>
  <MaxResults>50</MaxResults>
</ListVpcEndpointServicesResponse>
```

JSON format

```
{
  "Services": [
    {
      "ServiceBusinessStatus": "Normal",
      "ServiceName": "com.aliyuncs.privatelink.cn-huhehaote.epsrv-hp3vpx8yqxbly3i****",
      "ServiceStatus": "Active",
      "ServiceDescription": "",
      "CreateTime": "2020-09-09T02:26:51Z",
      "MaxBandwidth": 1024,
      "ConnectBandwidth": 1024,
      "RegionId": "cn-huhehaote",
      "MinBandwidth": 100,
      "ServiceDomain": "epsrv-hp3vpx8yqxbly3i****.cn-huhehaote.privatelink.aliyuncs.com",
      "AutoAcceptEnabled": false,
      "ServiceId": "epsrv-hp3vpx8yqxbly3i****"
    }
  ],
  "RequestId": "CBD4A69F-DD55-4021-A8AA-3A504095F8EC",
  "MaxResults": 50
}
```

Error codes

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

9.5. DeleteVpcEndpointService

Deletes an endpoint service.

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	DeleteVpcEndpointService	The operation that you want to perform. Set the value to CreateVpcEndpointService .
RegionId	String	Yes	eu-west-1	The ID of the region where the endpoint service is deployed. You can call the DescribeRegions operation to query region IDs.
ServiceId	String	Yes	epsrv-hp3vpx8yqxbly3i****	The ID of the endpoint service that you want to delete.

Parameter	Type	Required	Example	Description
ClientToken	String	No	0c593ea1-3bea-11e9-b96b-88e9fe637760	The client token that is used to ensure the idempotence of the request. You can use the client to generate a value that is unique among different requests. ClientToken can contain only ASCII characters and cannot exceed 64 characters in length.
DryRun	Boolean	No	false	Specifies whether to only check the API request. Valid values: true: only checks the API request. If you select this option, the endpoint service is not deleted after the request passes the check. Check items include whether your AccessKey pair is valid, whether the RAM user is authorized, and whether the required parameters are specified. If the request fails to meet the requirements in the check items, an error message is returned. If the request meets the requirements in the check items, the DryRunOperation error code is returned. false (default value): checks the API request. After the request passes the check, the 2XX HTTP status code is returned, and the endpoint service is deleted.

Response parameters

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

Examples

Sample requests

```
https://[Endpoint]/?Action=DeleteVpcEndpointService
&RegionId=eu-west-1
&ServiceId=epsrv-hp3vpx8yqxbly3i****
&<Common request parameters>
```

Sample success responses

XML format

```
<DeleteVpcEndpointServiceResponse>
  <RequestId>8D8992C1-6712-423C-BAC5-E5E817484C6B</RequestId>
</DeleteVpcEndpointServiceResponse>
```

JSON format

```
{
  "RequestId": "8D8992C1-6712-423C-BAC5-E5E817484C6B"
}
```

Error codes

HttpCode	Error code	Error message	Description
400	EndpointServiceNotFound	The specified Service does not exist.	The error message returned because the specified endpoint service does not exist.
400	EndpointServiceOperationDenied	The specified operation of endpoint service is not allowed.	The error message returned because the operation is not allowed when the endpoint service is being processed.
400	EndpointServiceDependenceViolation	The specified EndpointService already contains a resource.	The error message returned because one or more resources are associated with the specified endpoint service.

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

10. Service whitelist

10.1. AddUserToVpcEndpointService

Adds account IDs to the whitelist of an endpoint service.

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	AddUserToVpcEndpointService	The operation that you want to perform. Set the value to AddUserToVpcEndpointService .
RegionId	String	Yes	eu-west-1	The ID of the region where the endpoint service is deployed. You can call the DescribeRegions operation to query region IDs.
ServiceId	String	Yes	epsrv-hp3vpx8yqxlby3j****	The ID of the endpoint service.
UserId	Long	Yes	12345678	The account ID that you want to add to the whitelist.

Parameter	Type	Required	Example	Description
DryRun	Boolean	No	false	Specifies whether to only check the API request. Valid values: true: only checks the API request. If you select this option, the account ID is not added to the whitelist of the endpoint service after the request passes the check. Check items include whether the AccessKey pair is valid, whether the RAM user is authorized, and whether the required parameters are specified. If the request fails to meet the requirements in the check items, an error message is returned. If the request meets the requirements in the check items, the DryRunOperation error code is returned. false (default): checks the API request. After the request passes the check, the 2XX HTTP status code is returned, and the account ID is added to the whitelist of the endpoint service.
ClientToken	String	No	0c593ea1-3bea-11e9-b96b-88e9fe637760	The client token that is used to ensure the idempotence of the request. You can use the client to generate a value that is unique among different requests. ClientToken can contain only ASCII characters. It must be 1 to 64 characters in length.

Response parameters

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

Examples

Sample requests

```
https://[Endpoint]/?Action=AddUserToVpcEndpointService
&RegionId=eu-west-1
&ServiceId=epsrv-hp3vpx8yqxbly3i****
&UserId=12345678
&<Common request parameters>
```

Sample success responses

XML format

```
<AddUserToVpcEndpointServiceResponse>
  <RequestId>3109D437-5D6D-4A28-B5F5-EF936DExxx</RequestId>
</AddUserToVpcEndpointServiceResponse>
```

JSON format

```
{
  "RequestId": "3109D437-5D6D-4A28-B5F5-EF936DExxx"
}
```

Error codes

HttpCode	Error code	Error message	Description
400	EndpointServiceNotFound	The specified Service does not exist.	The error message returned because the specified endpoint service does not exist.

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

10.2. ListVpcEndpointServiceUsers

Queries the whitelist of an endpoint service.

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	ListVpcEndpointServiceUsers	The operation that you want to perform. Set the value to ListVpcEndpointServiceUsers .

Parameter	Type	Required	Example	Description
RegionId	String	Yes	eu-west-1	The region ID of the endpoint service that you want to query. You can call the DescribeRegions operation to query region IDs.
ServiceId	String	Yes	epsrv-hp3vpx8yqxlby3j****	The ID of the endpoint service.
NextToken	String	No	caeba0bbb2be03f84eb48b699f0a4883	The query token. Set this parameter to NextToken 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 returned on each page. Valid values: 1 to 50 . Default value: 50 .
UserId	Long	No	12345678	The account ID in the whitelist of the endpoint service.

Response parameters

Parameter	Type	Example	Description
MaxResults	String	50	The number of entries returned on each page.
NextToken	String	caeba0bbb2be03f84eb48b699f0a4883	The token required by the next query. If the NextToken parameter is empty, this indicates that no subsequent query will be sent.
RequestId	String	0ED8D006-F706-4D23-88ED-E11ED28DCAC0	The request ID.
Users	Array of User		The account IDs in the whitelist of the endpoint service.
UserId	Long	12345678	The account ID in the whitelist of the endpoint service.

Examples

Sample requests

```
https://[Endpoint]/?Action=ListVpcEndpointServiceUsers
&RegionId=eu-west-1
&ServiceId=epsrv-hp3vp8yqxblby3i****
&<Common request parameters>
```

Sample success responses

XML format

```
<ListVpcEndpointServiceUsersResponse>
  <RequestId>571D6CBE-4291-40EB-8FD3-C1175731D0E4</RequestId>
  <MaxResults>50</MaxResults>
  <Users>
    <UserId>12345678</UserId>
  </Users>
  <Users>
    <UserId>123456788</UserId>
  </Users>
</ListVpcEndpointServiceUsersResponse>
```

JSON format

```
{
  "RequestId": "571D6CBE-4291-40EB-8FD3-C1175731D0E4",
  "MaxResults": 50,
  "Users": [
    {
      "UserId": "12345678"
    },
    {
      "UserId": "123456788"
    }
  ]
}
```

Error codes

HttpCode	Error code	Error message	Description
400	EndpointServiceNotFound	The specified Service does not exist.	The error message returned because the specified endpoint service does not exist.

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

10.3. RemoveUserFromVpcEndpointService

Removes an account ID from the whitelist of an endpoint service.

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	RemoveUserFromVpcEndpointService	The operation that you want to perform. Set the value to RemoveUserFromVpcEndpointService .
RegionId	String	Yes	eu-west-1	The region ID of endpoint service for which you want to remove the account ID from the whitelist. You can call the DescribeRegions operation to query region IDs.
ServiceId	String	Yes	epsrv-hp3vpx8yqxblby3j****	The ID of the endpoint service.
UserId	Long	Yes	12345678	The account ID that you want to remove from the whitelist.
ClientToken	String	No	0c593ea1-3bea-11e9-b96b-88e9fe637760	The client token that is used to ensure the idempotence of the request. You can use the client to generate a value that is unique among different requests. ClientToken can contain only ASCII characters and cannot exceed 64 characters in length.

Parameter	Type	Required	Example	Description
DryRun	Boolean	No	false	Specifies whether to only check the API request. Valid values: true: only checks the API request. If you select this option, the account ID is not removed from the whitelist after the request passes the check. Check items include whether the AccessKey pair is valid, whether the RAM user is authorized, and whether the required parameters are specified. If the request fails to meet the requirements in the check items, an error message is returned. If the request meets the requirements in the check items, the DryRunOperation error code is returned. false (default): checks the API request. After the request passes the check, the 2XX HTTP status code is returned, and the specified account ID is removed from the whitelist..

Response parameters

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

Examples

Sample requests

```
https://[Endpoint]/?Action=RemoveUserFromVpcEndpointService
&RegionId=eu-west-1
&ServiceId=epsrv-hp3vpx8yqxbly3i****
&UserId=12345678
&<Common request parameters>
```

Sample success responses

XML format

```
<RemoveUserFromVpcEndpointServiceResponse>
  <RequestId>3109D437-5D6D-4A28-B5F5-EF936DExxx</RequestId>
</RemoveUserFromVpcEndpointServiceResponse>
```

JSON format

```
{
  "RequestId": "3109D437-5D6D-4A28-B5F5-EF936DExxx"
}
```

Error codes

HttpCode	Error code	Error message	Description
400	EndpointServiceNotFound	The specified Service does not exist.	The error message returned because the specified endpoint service does not exist.

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

11. Service resources

11.1. AttachResourceToVpcEndpointService

Adds service resources to an endpoint service.

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	Required	AttachResourceToVpcEndpointService	The operation that you want to perform. Set the value to AttachResourceToVpcEndpointService .
RegionId	String	Required	eu-west-1	The ID of the region where the endpoint service is created. You can call the DescribeRegions operation to query region IDs.
ResourceId	String	Yes	lb-hp32z1wp5peaox2q****	The ID of the service resource.
ResourceType	String	Yes	slb	The type of the service resource. Set the value to slb (SLB instances that support PrivateLink and are deployed in a VPC).
ServiceId	String	Yes	epsrv-hp3vpx8yqxbly3j****	The endpoint service to which you want to add the service resource.

Parameter	Type	Required	Example	Description
DryRun	Boolean	No	false	Specifies whether to only check the API request. Valid values: true: only checks the API request. If you select this option, the service resource is not added to the endpoint service after the request passes the check. Check items include whether the AccessKey pair is valid, whether the RAM user is authorized, and whether the required parameters are specified. If the request fails to meet the requirements in the check items, an error message is returned. If the request meets the requirements in the check items, the DryRunOperation error code is returned. false (default): checks the API request. After the request passes the check, the 2XX HTTP status code is returned, and the service resource is automatically added to the endpoint service.
ClientToken	String	No	0c593ea1-3bea-11e9-b96b-88e9fe637760	The client token that is used to ensure the idempotence of the request. You can use the client to generate a value that is unique among different requests. ClientToken can contain only ASCII characters. It must be 1 to 64 characters in length.

Response parameters

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

Examples

Sample requests

```
https://[Endpoint]/?Action=AttachResourceToVpcEndpointService
&RegionId=eu-west-1
&ResourceId=lb-hp32z1wp5peaoox2q****
&ResourceType=slb
&ServiceId=epsrv-hp3vpx8yqxblby3i****
&<Common request parameters>
```

Sample success responses

XML format

```
<AttachResourceToVpcEndpointServiceResponse>
  <RequestId>3109D437-5D6D-4A28-B5F5-EF936DExxx</RequestId>
</AttachResourceToVpcEndpointServiceResponse>
```

JSON format

```
{
  "RequestId": "3109D437-5D6D-4A28-B5F5-EF936DExxx"
}
```

Error codes

HttpCode	Error code	Error message	Description
400	EndpointServiceNotFound	The specified Service does not exist.	The error message returned because the specified endpoint service does not exist.
400	EndpointServiceOperationDenied	The specified operation of endpoint service is not allowed.	The error message returned because the operation is not allowed when the endpoint service is being processed.
400	EndpointServiceResourceExist	The specified resource already exists.	The error message returned because the specified resource is already added to the endpoint service.
400	LoadBalancerNotFound	The specified load balancer does not exist.	The error message returned because the specified Server Load Balancer (SLB) instance does not exist.
400	LoadBalancerNotSupportPrivateLink	The specified SLB does not support PrivateLink.	The error message returned because the specified SLB instance does not support PrivateLink.
400	AlbNotFound	The specified Alb does not exist.	The error message returned because the specified Alibaba Cloud internal SLB instance does not exist.
400	EndpointServiceResourceTypeNotSupported	The specified resource type is not supported.	The error message returned because the specified resource type is not supported.

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

11.2. ListVpcEndpointServiceResources

Queries the service resources that are added to an endpoint service.

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	ListVpcEndpointServiceResources	The operation that you want to perform. Set the value to ListVpcEndpointServiceResources .
RegionId	String	Yes	eu-west-1	The ID of the region where the service resources that you want to query is deployed. You can call the DescribeRegions operation to query region IDs.
ServiceId	String	Yes	epsrv-hp3vpx8yqxbly3j****	The ID of the endpoint service.
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: 1 to 50 . Default value: 50 .

Response parameters

Parameter	Type	Example	Description
MaxResults	String	50	The number of entries to return on each page.

Parameter	Type	Example	Description
NextToken	String	caeba0bbb2be03f84eb48b699f0a4883	The token required by the next query. If the NextToken parameter is empty, it indicates that no subsequent query will be sent.
RequestId	String	0ED8D006-F706-4D23-88ED-E11ED28DCAC0	The ID of the request.
Resources	Array of Resource		The list of service resources.
Ip	String	192.xx.xx.23	The IP address of the service resource.
RegionId	String	eu-west-1	The region where the service resource is created.
ResourceId	String	lb-hp32z1wp5peaoox2q****	The ID of the service resource.
ResourceType	String	slb	The type of the service resource.
VSwitchId	String	vsw-hp3uf6045ljdhd5zr**	The VSwitch to which the service resource belongs.
VpcId	String	vpc-hp356stwxg3fn2xe****	The virtual private cloud (VPC) to which the service resource belongs.
ZoneId	String	eu-west-1a	The zone to which the service resource belongs.

Examples

Sample requests

```
https://[Endpoint]/?Action=ListVpcEndpointServiceResources
&RegionId=eu-west-1
&ServiceId=epsrv-hp3vpx8yqxbly3i****
&<Common request parameters>
```

Sample success responses

XML format

```
<ListVpcEndpointServiceResourcesResponse>
  <RequestId>F5BCF65B-D6D3-4F3E-9D84-0A7091A30D37</RequestId>
  <MaxResults>50</MaxResults>
  <Resources>
    <ZoneId>cn-huhehaote-b</ZoneId>
    <VpcId>vpc-hp31eulap5s087jp1****</VpcId>
    <ResourceId>lb-hp32z1wp5peaox2q****</ResourceId>
    <Ip>172.xx.xx.139</Ip>
    <VSwitchId>vsw-hp38b7gpglrs179w3****</VSwitchId>
    <ResourceType>slb</ResourceType>
    <RegionId>cn-huhehaote</RegionId>
  </Resources>
</ListVpcEndpointServiceResourcesResponse>
```

JSON format

```
{
  "RequestId": "F5BCF65B-D6D3-4F3E-9D84-0A7091A30D37",
  "MaxResults": 50,
  "Resources": [
    {
      "ZoneId": "cn-huhehaote-b",
      "VpcId": "vpc-hp31eulap5s087jp1****",
      "ResourceId": "lb-hp32z1wp5peaox2q****",
      "Ip": "172.xx.xx.139",
      "VSwitchId": "vsw-hp38b7gpglrs179w3****",
      "ResourceType": "slb",
      "RegionId": "cn-huhehaote"
    }
  ]
}
```

Error codes

HttpCode	Error code	Error message	Description
400	EndpointServiceNotFound	The specified Service does not exist.	The error message returned because the specified endpoint service does not exist.

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

11.3. DetachResourceFromVpcEndpointService

Removes a service resource from an endpoint service.

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	DetachResourceFromVpcEndpointService	The operation that you want to perform. Set the value to DetachResourceFromVpcEndpointService .
RegionId	String	Yes	eu-west-1	The ID of the region where the endpoint service is created. You can call the DescribeRegions operation to query region IDs.
ResourceId	String	Yes	lb-hp32z1wp5peaox2q****	The ID of the service resource.
ResourceType	String	Yes	slb	The type of the service resource. Set the value to slb (SLB instances that support PrivateLink and are deployed in a VPC).
ServiceId	String	Yes	epsrv-hp3vpx8yqxbly3j****	The endpoint service from which you want to remove service resources.

Parameter	Type	Required	Example	Description
DryRun	Boolean	No	false	Specifies whether to only check the API request. Valid values: true: only checks the API request. If you select this option, the service resource is not removed from the endpoint service. Check items include whether the AccessKey pair is valid, whether the RAM user is authorized, and whether the required parameters are specified. If the request fails to meet the requirements in the check items, an error message is returned. If the request meets the requirements in the check items, the DryRunOperation error code is returned. false (default): checks the API request. After the request passes the check, the 2XX HTTP status code is returned, and the service resource is removed from the endpoint service.
ClientToken	String	No	0c593ea1-3bea-11e9-b96b-88e9fe637760	The client token that is used to ensure the idempotence of the request. You can use the client to generate a value that is unique among different requests. ClientToken can contain only ASCII characters and cannot exceed 64 characters in length.

Response parameters

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

Examples

Sample requests

```
https://[Endpoint]/?Action=DetachResourceFromVpcEndpointService
&RegionId=eu-west-1
&ResourceId=lb-hp32z1wp5peaoox2q****
&ResourceType=slb
&ServiceId=epsrv-hp3vpx8yqxblby3i****
&<Common request parameters>
```

Sample success responses

XML format

```
<DetachResourceFromVpcEndpointServiceResponse>
  <RequestId>3109D437-5D6D-4A28-B5F5-EF936DExxx</RequestId>
</DetachResourceFromVpcEndpointServiceResponse>
```

JSON format

```
{
  "RequestId": "3109D437-5D6D-4A28-B5F5-EF936DExxx"
}
```

Error codes

HttpCode	Error code	Error message	Description
400	EndpointServiceNotFound	The specified Service does not exist.	The error message returned because the specified endpoint service does not exist.

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

12.Endpoints

12.1. CreateVpcEndpoint

Creates an endpoint.

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	CreateVpcEndpoint	The operation that you want to perform. Set the value to CreateVpcEndpoint .
RegionId	String	Yes	eu-west-1	The ID of the region where you want to create the endpoint. You can call the DescribeRegions operation to query region IDs.
SecurityGroupId.N	RepeatList	Yes	sg-hp33bw6ynvm2yb0e****	The security group to be associated with the endpoint elastic network interface (ENI). Security groups can be used to control data transfer between virtual private clouds (VPCs) and endpoint ENIs. Valid values of N: 1 to 10.
ServiceId	String	Yes	epsrv-hp3xdsq46ael67lo****	The endpoint service that is associated with the endpoint.
VpcId	String	Yes	vpc-hp356stwxg3fn2xe****	The VPC to which the endpoint belongs.
ClientToken	String	No	0c593ea1-3bea-11e9-b96b-88e9fe637760	The client token that is used to ensure the idempotence of the request. You can use the client to generate a value that is unique among different requests. ClientToken can contain only ASCII characters and cannot exceed 64 characters in length.

Parameter	Type	Required	Example	Description
DryRun	Boolean	No	false	Specifies whether to only check the API request. Valid values: true: only checks the API request. If you select this option, the endpoint is not created after the request passes the check. Check items include whether the AccessKey pair is valid, whether the RAM user is authorized, and whether the required parameters are specified. If the request fails to meet the requirements in the check items, an error message is returned. If the request meets the requirements in the check items, the DryRunOperation error code is returned. false (default): checks the API request. After the request passes the check, the 2XX HTTP status code is returned, and the endpoint is created.
EndpointName	String	No	test	The name of the endpoint. The name must be 2 to 128 characters in length and can contain digits, underscores (_), and hyphens (-). The name must start with a letter.
EndpointDescription	String	No	This is my Endpoint.	The description of the endpoint. The description must be 2 to 256 characters in length and cannot start with http:// or https://.
ServiceName	String	No	com.aliyuncs.private-link.cn-huhehaote.epsrv-hp3vpx8yqxbly3j****	The name of the endpoint service that is associated with the endpoint.
Zone.N.VSwitchId	String	No	vsw-hp3uf6045ljdhd5zr****	The VSwitch within which you want to create the endpoint ENI. Valid values of N: 1 to 10.

Parameter	Type	Required	Example	Description
Zone.N.ZoneId	String	No	eu-west-1a	The zone of the associated endpoint service. Valid values of N: 1 to 10.

Response parameters

Parameter	Type	Example	Description
Bandwidth	Long	1024	The bandwidth of the endpoint connection. Unit: Mbit/s.
ConnectionStatus	String	Disconnected	The status of the endpoint connection. Valid values: Pending: The endpoint is being modified. Connecting: The endpoint is being connected to the endpoint service. Connected: The endpoint is connected to the endpoint service. Disconnecting: The endpoint is disconnecting from the endpoint service. Disconnected: The endpoint is disconnected from the endpoint service. Deleting: The endpoint is being deleted.
CreateTime	String	2020-01-02T19:11:12Z	The time when the endpoint was created.
EndpointBusinessStatus	String	Normal	The business status of the endpoint. Valid values: Normal: normal FinancialLocked: locked due to overdue payments
EndpointDescription	String	This is my Endpoint.	The description of the endpoint.
EndpointDomain	String	ep-hp33b2e43fays7s8** **.epsrv-hp3xdsq46ael67lo** **.cn-huhehaote.privatelink.aliyuncs.com	The domain name of the endpoint.

Parameter	Type	Example	Description
EndpointId	String	ep-hp33b2e43fays7s8**	The ID of the endpoint.
EndpointName	String	test	The name of the endpoint.
EndpointStatus	String	Active	The status of the endpoint. Valid values: • Creating: The endpoint is being created. • Active: The endpoint is available. • Pending: The endpoint is being modified. • Deleting: The endpoint is being deleted.
RequestId	String	0ED8D006-F706-4D23-88ED-E11ED28DCAC0	The ID of the request.
ServiceId	String	epsrv-hp3vp8yqxblby3i***	The ID of the endpoint service that is associated with the endpoint.
ServiceName	String	com.aliyuncs.private-link.cn-huhehaote.epsrv-hp3xdsq46ael67lo**	The name of the endpoint service that is associated with the endpoint.
VpcId	String	vpc-hp356stwxg3fn2xe****	The VPC to which the endpoint belongs.

Examples

Sample requests

```
https://[Endpoint]/?Action=CreateVpcEndpoint
&RegionId=eu-west-1
&SecurityGroupId.1=sg-hp33bw6ynvm2yb0e****
&ServiceId=epsrv-hp3xdsq46ael67lo****
&VpcId=vpc-hp356stwxg3fn2xe****
&<Common request parameters>
```

Sample success responses

XML format

```
<CreateVpcEndpointResponse>
  <RequestId>8D8992C1-6712-423C-BAC5-E5E817484C6B</RequestId>
  <ConnectionStatus>Disconnected</ConnectionStatus>
  <EndpointId>ep-hp33b2e43fays7s8****</EndpointId>
  <EndpointName>test</EndpointName>
  <VpcId>vpc-hp356stwxg3fn2xe****</VpcId>
  <EndpointDescription>This is my Endpoint. </EndpointDescription>
  <ServiceId>epsrv-hp3vpx8yqxblby3i****</ServiceId>
  <ServiceName>com.aliyuncs.privatelink.cn-huhehaote.epsrv-hp3xdsq46ael67lo****</ServiceName>
  <EndpointStatus>Creating</EndpointStatus>
  <EndpointBusinessStatus>Normal</EndpointBusinessStatus>
  <EndpointDomain>ep-hp33b2e43fays7s8****.epsrv-hp3xdsq46ael67lo****.cn-huhehaote.privatelink.aliyuncs.com</EndpointDomain>
  <CreateTime>2019-01-12T19:12:12Z</CreateTime>
  <Bandwidth>10</Bandwidth>
</CreateVpcEndpointResponse>
```

JSON format

```
{
  "RequestId": "8D8992C1-6712-423C-BAC5-E5E817484C6B",
  "ConnectionStatus": "Disconnected",
  "EndpointId": "ep-hp33b2e43fays7s8****",
  "EndpointName": "test",
  "VpcId": "vpc-hp356stwxg3fn2xe****",
  "EndpointDescription": "This is my Endpoint.",
  "ServiceId": "epsrv-hp3vpx8yqxblby3i****",
  "ServiceName": "com.aliyuncs.privatelink.cn-huhehaote.epsrv-hp3xdsq46ael67lo****",
  "EndpointStatus": "Creating",
  "EndpointBusinessStatus": "Normal",
  "EndpointDomain": "ep-hp33b2e43fays7s8****.epsrv-hp3xdsq46ael67lo****.cn-huhehaote.privatelink.aliyuncs.com",
  "CreateTime": "2019-01-12T19:12:12Z",
  "Bandwidth": 10
}
```

Error codes

HttpCode	Error code	Error message	Description
400	EndpointExist	The specified Endpoint already exists.	The error message returned because the specified endpoint already exists.
400	EndpointZoneDuplicated	The zone is duplicated for the Endpoint.	The error message returned because duplicate zones exist.
400	EndpointServiceNotFound	The specified Service does not exist.	The error message returned because the specified endpoint service does not exist.

HttpCode	Error code	Error message	Description
400	EndpointServiceNotSupportedZone	The specified endpoint service does not support the zone.	The error message returned because the specified endpoint service does not support the zone.
400	VSwitchNotFound	The specified VSwitch does not exist.	The error message returned because the specified VSwitch does not exist.
400	SecurityGroupNotFound	The specified security group does not exist.	The error message returned because the specified security group does not exist.
400	VpcTunnelNotFound	The specified VPC tunnel does not exist.	The error message returned because the specified VPC tunnel does not exist.
400	VpcNotFound	The specified VPC does not exist.	The error message returned because the specified VPC does not exist.
400	GenerateResourceIdFailed	Failed to generate ResourceId.	The error message returned because the system failed to generate the resource ID.
400	QuotaMismatched	The resource you applied for has exceeded the quota.	The error message returned because the requested amount of resources has exceeded the quota.
400	EndpointMustContainSecurityGroup	The specified endpoint must have at least one security group.	The error message returned because the specified endpoint must be associated with at least one security group.

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

12.2. UpdateVpcEndpointAttribute

Modifies an endpoint.

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
-----------	------	----------	---------	-------------

Parameter	Type	Required	Example	Description
Action	String	Yes	UpdateVpcEndpointAttribute	The operation that you want to perform. Set the value to UpdateVpcEndpointAttribute .
EndpointDescription	String	Yes	This is my Endpoint.	The description of the endpoint. The description must be 2 to 256 characters in length, and cannot start with <code>http://</code> or <code>https://</code> .
EndpointId	String	Yes	ep-hp33b2e43fays7sg****	The ID of the endpoint that you want to modify.
EndpointName	String	Yes	test	The name of the endpoint. The name must be 2 to 128 characters in length, and can contain digits, underscores (_), and hyphens (-). It must start with a letter.
RegionId	String	Yes	eu-west-1	The region ID of the endpoint that you want to modify. You can call the DescribeRegions operation to query region IDs.
ClientToken	String	No	0ED8D006-F706-4D23-88ED-E11ED28DCAC0	The client token that is used to ensure the idempotence of the request. You can use the client to generate the value, but you must make sure that it is unique among different requests. ClientToken can contain only ASCII characters and cannot exceed 64 characters in length.

Parameter	Type	Required	Example	Description
DryRun	Boolean	No	true	Specifies whether to only check the API request. Valid values: true: only checks the API request. If you select this option, the endpoint is not modified after the request passes the check. Check items include whether your AccessKey pair is valid, whether the RAM user is authorized, and whether the required parameters are specified. If the request fails to meet the requirements in the check items, an error message is returned. If the request meets the requirements in the check items, the DryRunOperation error code is returned. false (default): checks the API request. After the request passes the check, the 2XX HTTP status code is returned, and the endpoint is modified.

Response parameters

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

Examples

Sample requests

```
https://[Endpoint]/?Action=UpdateVpcEndpointAttribute
&EndpointDescription=This is my Endpoint.
&EndpointId=ep-hp33b2e43fays7s8****
&EndpointName=test
&RegionId=eu-west-1
&<Common request parameters>
```

Sample success responses

XML format

```
<UpdateVpcEndpointAttributeResponse>
  <RequestId>8D8992C1-6712-423C-BAC5-E5E817484C6B</RequestId>
</UpdateVpcEndpointAttributeResponse>
```

JSON format

```
{
  "RequestId": "8D8992C1-6712-423C-BAC5-E5E817484C6B"
}
```

Error codes

HttpCode	Error code	Error message	Description
400	EndpointNotFound	The specified Endpoint does not exist.	The error message returned because the specified endpoint is not found.
400	EndpointOperationDenied	The specified operation of endpoint is not allowed.	The error message returned because the operation is not allowed when the endpoint is being processed.
400	EndpointLocked	The specified Endpoint is locked.	The error message returned because the endpoint is locked.

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

12.3. GetVpcEndpointAttribute

Queries an endpoint.

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	GetVpcEndpointAttribute	The operation that you want to perform. Set the value to GetVpcEndpointAttribute .
RegionId	String	Yes	eu-west-1	The ID of the region where endpoint that you want to query is created. You can call the DescribeRegions operation to query region IDs.
EndpointId	String	No	ep-hp33b2e43fays7sg****	The endpoint that you want to query.

Response parameters

Parameter	Type	Example	Description
Bandwidth	String	1024	The maximum bandwidth of the endpoint connection. Unit: Mbit/s.
ConnectionStatus	String	Connected	The status of the endpoint connection. Valid values: • Pending: The endpoint service is being modified. • Connecting: The endpoint is waiting for the endpoint service to accept the connection request. • Connected: The endpoint is connected to the endpoint service. • Disconnecting: The endpoint is disconnecting from the endpoint service. • Disconnected: The endpoint is disconnected from the endpoint service. • Deleting: The endpoint is being deleted.
CreateTime	String	2020-01-02T19:11:12Z	The time when the endpoint was created.
EndpointBusinessStatus	String	Normal	The business status of the endpoint. Valid values: • Normal: normal. • FinancialLocked: locked due to overdue payments.
EndpointDescription	String	This is my Endpoint.	The description of the endpoint.
EndpointDomain	String	ep-hp33b2e43fays7s8** **.epsrv-hp3xdsq46ael67lo** **.cn-huhehaote.privatelink.aliyuncs.com	The domain name of the endpoint.
EndpointId	String	ep-hp33b2e43fays7s8**	The ID of the endpoint.
EndpointName	String	test	The name of the endpoint.

Parameter	Type	Example	Description
EndpointStatus	String	Active	The status of the endpoint. Valid values: • Creating: The endpoint is being created. • Active: The endpoint is available. • Pending: The endpoint is being modified. • Deleting: The endpoint is being deleted.
RegionId	String	eu-west-1	The ID of the region where the endpoint is created.
RequestId	String	8D8992C1-6712-423C-BAC5-E5E817484C6B	The ID of the request.
ServiceId	String	epsrv-hp3vp8yqxblby3i***	The ID of the endpoint service that is associated with the endpoint.
ServiceName	String	com.aliyuncs.private-link.cn-huhehaote.epsrv-hp3xdsq46ael67lo**	The name of the endpoint service that is associated with the endpoint.
VpcId	String	vpc-fdfhkjafhjvcvdjf****	The VPC to which the endpoint belongs.

Examples

Sample requests

```
https://[Endpoint]/?Action=GetVpcEndpointAttribute
&RegionId=eu-west-1
&<Common request parameters>
```

Sample success responses

XML format

```
<GetVpcEndpointAttributeResponse>
  <EndpointDomain>ep-hp34jaz8ykl0exwt****.epsrv-hp3vpx8yqxbly3i****.cn-huhehaote.privatelink.aliy
uncs.com</EndpointDomain>
  <RequestId>6FDA5D60-53E3-4503-81DC-AA6450AECE81</RequestId>
  <CreateTime>2020-09-10T01:03:38Z</CreateTime>
  <EndpointBusinessStatus>Normal</EndpointBusinessStatus>
  <EndpointDescription></EndpointDescription>
  <ServiceId>epsrv-hp3vpx8yqxbly3i****</ServiceId>
  <EndpointStatus>Creating</EndpointStatus>
  <EndpointName>ghj</EndpointName>
  <VpcId>vpc-hp3orxby7p2qbl2s3****</VpcId>
  <ServiceName>com.aliyuncs.privatelink.cn-huhehaote.epsrv-hp3vpx8yqxbly3i****</ServiceName>
  <Bandwidth>1024</Bandwidth>
  <EndpointId>ep-hp34jaz8ykl0exwt****</EndpointId>
  <RegionId>cn-huhehaote</RegionId>
  <ConnectionStatus>Disconnected</ConnectionStatus>
</GetVpcEndpointAttributeResponse>
```

JSON format

```
{
  "EndpointDomain": "ep-hp34jaz8ykl0exwt****.epsrv-hp3vpx8yqxbly3i****.cn-huhehaote.privatelink.aliy
uncs.com",
  "RequestId": "6FDA5D60-53E3-4503-81DC-AA6450AECE81",
  "CreateTime": "2020-09-10T01:03:38Z",
  "EndpointBusinessStatus": "Normal",
  "EndpointDescription": "",
  "ServiceId": "epsrv-hp3vpx8yqxbly3i****",
  "EndpointStatus": "Creating",
  "EndpointName": "ghj",
  "VpcId": "vpc-hp3orxby7p2qbl2s3****",
  "ServiceName": "com.aliyuncs.privatelink.cn-huhehaote.epsrv-hp3vpx8yqxbly3i****",
  "Bandwidth": 1024,
  "EndpointId": "ep-hp34jaz8ykl0exwt****",
  "RegionId": "cn-huhehaote",
  "ConnectionStatus": "Disconnected"
}
```

Error codes

HttpCode	Error code	Error message	Description
400	EndpointNotFound	The specified Endpoint does not exist.	The error message returned because the endpoint is not found.

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

12.4. ListVpcEndpoints

Queries endpoints

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	ListVpcEndpoints	The operation that you want to perform. Set the value to ListVpcEndpoints .
RegionId	String	Yes	eu-west-1	The region ID of the endpoint that you want to query. You can call the DescribeRegions operation to query region IDs.
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: 1 to 50 . Default value: 50 .
EndpointId	String	No	ep-hp33b2e43fays7sg****	The ID of the endpoint that you want to query.
ServiceName	String	No	com.aliyuncs.privatelink.cn-huhehaote.epsrv-hp3vpx8yqxbly3j****	The name of the endpoint service that is associated with the endpoint to be queried.
VpcId	String	No	vpc-fdjkf789dfdfdfde****	The virtual private cloud (VPC) to which the endpoint belongs.
EndpointName	String	No	test	The name of the endpoint.

Parameter	Type	Required	Example	Description
EndpointStatus	String	No	Active	The status of the endpoint. Valid values: • Creating: The endpoint is being created. • Active: The endpoint is available. • Pending: The endpoint is being modified. • Deleting: The endpoint is being deleted.
ConnectionStatus	String	No	Disconnected	The status of the endpoint connection. Valid values: • Pending: The endpoint connection is being modified. • Connecting: The endpoint is waiting for the endpoint service to accept the connection request. • Connected: The endpoint is connected to the endpoint service. • Disconnecting: The endpoint is disconnecting from the endpoint service. • Disconnected: The endpoint is disconnected from the endpoint service. • Deleting: The endpoint service is being deleted. • ServiceDeleted: The endpoint service with which the endpoint is associated is deleted.

Response parameters

Parameter	Type	Example	Description
Endpoints	Array of Endpoint		The list of endpoints.
Bandwidth	Long	1024	The bandwidth of the endpoint connection. Unit: Mbit/s.

Parameter	Type	Example	Description
ConnectionStatus	String	Disconnected	The status of the endpoint connection. Valid values: • Pending: The endpoint connection is being modified. • Connecting: The endpoint is waiting for the endpoint service to accept the connection request. • Connected: The endpoint is connected to the endpoint service. • Disconnecting: The endpoint is disconnecting from the endpoint service. • Disconnected: The endpoint is disconnected from the endpoint service. • Deleting: The endpoint service is being deleted. • ServiceDeleted: The endpoint service with which the endpoint is associated is deleted.
CreateTime	String	2020-01-02T19:11:12Z	The time when the endpoint was created.
EndpointBusinessStatus	String	Normal	The business status of the endpoint. Valid values: • Normal: normal. • FinancialLocked: locked due to overdue payments.
EndpointDescription	String	This is my Endpoint.	The description of the endpoint.
EndpointDomain	String	ep-hp33b2e43fays7s8** **.epsrv-hp3xdsq46ael67lo** **.cn-huhehaote.privatelink.aliyuncs.com	The domain name of the endpoint.
EndpointId	String	ep-hp33b2e43fays7s8**	The ID of the endpoint.
EndpointName	String	test	The name of the endpoint.

Parameter	Type	Example	Description
EndpointStatus	String	Active	The status of the endpoint. Valid values: Creating: The endpoint is being created. Active: The endpoint is available. Pending: The endpoint is being modified. Deleting: The endpoint is being deleted.
RegionId	String	eu-west-1	The ID of the region where the endpoint is created.
ServiceId	String	epsrv-hp3vpx8yqxblby3i***	The ID of the endpoint service that is associated with the endpoint.
ServiceName	String	com.aliyuncs.private-link.cn-huhehaote.epsrv-hp3xdsq46ael67lo**	The name of the endpoint service that is associated with the endpoint.
VpcId	String	vpc-hp356stwxg3fn2xe****	The virtual private cloud (VPC) to which the endpoint belongs.
MaxResults	String	50	The number of entries to return on each page.
NextToken	String	caeba0bbb2be03f84eb48b699f0a4883	The token required by the next query. If the NextToken parameter is empty, this indicates that no subsequent query will be sent.
RequestId	String	0ED8D006-F706-4D23-88ED-E11ED28DCAC0	The ID of the request.

Examples

Sample requests

```
https://[Endpoint]/?Action=ListVpcEndpoints
&RegionId=eu-west-1
&<Common request parameters>
```

Sample success responses

XML format

```
<ListVpcEndpointsResponse>
  <Endpoints>
    <EndpointDomain>ep-hp33b2e43fays7s8****.epsrv-hp3xdsq46ael67lo****.cn-huhehaote.privatelink.aliyuncs.com</EndpointDomain>
    <CreateTime>2020-09-09T01:39:46Z</CreateTime>
    <EndpointBusinessStatus>Normal</EndpointBusinessStatus>
    <EndpointDescription></EndpointDescription>
    <ServiceId>epsrv-hp3xdsq46ael67lo****</ServiceId>
    <EndpointStatus>Active</EndpointStatus>
    <EndpointName>ff</EndpointName>
    <VpcId>vpc-hp356stwxg3fn2xe****</VpcId>
    <ServiceName>com.aliyuncs.privatelink.cn-huhehaote.epsrv-hp3xdsq46ael67lo****</ServiceName>
    <EndpointId>ep-hp33b2e43fays7s8****</EndpointId>
    <Bandwidth>1024</Bandwidth>
    <RegionId>cn-huhehaote</RegionId>
    <ConnectionStatus>ServiceDeleted</ConnectionStatus>
  </Endpoints>
  <RequestId>07F123EF-C53A-48BD-95E1-1C4F68E35475</RequestId>
  <MaxResults>50</MaxResults>
</ListVpcEndpointsResponse>
```

JSON format

```
{
  "Endpoints": [
    {
      "EndpointDomain": "ep-hp33b2e43fays7s8****.epsrv-hp3xdsq46ael67lo****.cn-huhehaote.privatelink.aliyuncs.com",
      "CreateTime": "2020-09-09T01:39:46Z",
      "EndpointBusinessStatus": "Normal",
      "EndpointDescription": "",
      "ServiceId": "epsrv-hp3xdsq46ael67lo****",
      "EndpointStatus": "Active",
      "EndpointName": "ff",
      "VpcId": "vpc-hp356stwxg3fn2xe****",
      "ServiceName": "com.aliyuncs.privatelink.cn-huhehaote.epsrv-hp3xdsq46ael67lo****",
      "EndpointId": "ep-hp33b2e43fays7s8****",
      "Bandwidth": 1024,
      "RegionId": "cn-huhehaote",
      "ConnectionStatus": "ServiceDeleted"
    }
  ],
  "RequestId": "07F123EF-C53A-48BD-95E1-1C4F68E35475",
  "MaxResults": 50
}
```

Error codes

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

12.5. ListVpcEndpointServicesByEndUser

Queries endpoint services that can be associated with the endpoints created by the current account.

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	ListVpcEndpointServicesByEndUser	The operation that you want to perform. Set the value to ListVpcEndpointServicesByEndUser .
RegionId	String	Yes	eu-west-1	The ID of the region that you want to query. You can call the DescribeRegions operation to query region IDs.
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: 1 to 50 . Default value: 50 .
ServiceId	String	No	epsrv-hp3vpx8yqxblby3j****	The ID of the endpoint service that you want to query.
ServiceName	String	No	com.aliyuncs.privateatlink.cn-huhehaote.epsrv-hp3xdsq46ael67lo****	The name of the endpoint service that you want to query.

Response parameters

Parameter	Type	Example	Description
MaxResults	String	50	The number of entries to return on each page.

Parameter	Type	Example	Description
NextToken	String	caeba0bbb2be03f84eb48b699f0a4883	The token required by the next query. If the NextToken parameter is empty, it indicates that no subsequent query will be sent.
RequestId	String	0ED8D006-F706-4D23-88ED-E11ED28DCAC0	The ID of the request.
Services	Array of Service		The list of endpoint services.
ServiceDomain	String	epsrv-hp3vpx8yqxbly3i***.cn-huhehaote.privatelink.aliyuncs.com	The domain name of the endpoint service that can be associated with the endpoints created by the current account.
ServiceId	String	epsrv-hp3vpx8yqxbly3i***	The ID of the endpoint service that can be associated with the endpoints created by the current account.
ServiceName	String	com.aliyuncs.private-link.cn-huhehaote.epsrv-hp3vpx8yqxbly3i***	The name of the endpoint service that can be associated with the endpoints created by the current account.
Zones	List	eu-west-1a	The zones of the endpoint service that can be associated with the endpoints created by the current account.

Examples

Sample requests

```
https://[Endpoint]/?Action=ListVpcEndpointServicesByEndUser
&RegionId=eu-west-1
&<Common request parameters>
```

Sample success responses

XML format

```
<ListVpcEndpointServicesByEndUserResponse>
  <Services>
    <ServiceName>com.aliyuncs.privatelink.cn-huhehaote.epsrv-hp3vpx8yqxbly3i****</ServiceName>
    <ServiceDomain>epsrv-hp3vpx8yqxbly3i****.cn-huhehaote.privatelink.aliyuncs.com</ServiceDomain>
    <ServiceId>epsrv-hp3vpx8yqxbly3i****</ServiceId>
    <Zones>cn-huhehaote-b</Zones>
  </Services>
  <RequestId>FAD43068-3D13-45FE-A3EE-C06D479370A0</RequestId>
  <MaxResults>50</MaxResults>
</ListVpcEndpointServicesByEndUserResponse>
```

JSON format

```
{
  "Services": [
    {
      "ServiceName": "com.aliyuncs.privatelink.cn-huhehaote.epsrv-hp3vpx8yqxbly3i****",
      "ServiceDomain": "epsrv-hp3vpx8yqxbly3i****.cn-huhehaote.privatelink.aliyuncs.com",
      "ServiceId": "epsrv-hp3vpx8yqxbly3i****",
      "Zones": [
        "cn-huhehaote-b"
      ]
    }
  ],
  "RequestId": "FAD43068-3D13-45FE-A3EE-C06D479370A0",
  "MaxResults": 50
}
```

Error codes

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

12.6. DeleteVpcEndpoint

Deletes an endpoint.

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	DeleteVpcEndpoint	The operation that you want to perform. Set the value to DeleteVpcEndpoint .

Parameter	Type	Required	Example	Description
EndpointId	String	Yes	ep-hp33b2e43fays7s8****	The ID of the endpoint that you want to delete.
RegionId	String	Yes	eu-west-1	The ID of the region where the endpoint is created. You can call the DescribeRegions operation to query region IDs.
ClientToken	String	No	0c593ea1-3bea-11e9-b96b-88e9fe637760	The client token that is used to ensure the idempotence of the request. You can use the client to generate a value that is unique among different requests. ClientToken can contain only ASCII characters and cannot exceed 64 characters in length.
DryRun	Boolean	No	false	Specifies whether to only check the API request. Valid values: true: only checks the API request. If you select this option, the endpoint is not deleted after the request passes the check. Check items include whether the AccessKey pair is valid, whether the RAM user is authorized, and whether the required parameters are specified. If the check fails to meet the requirements in the check items, the corresponding error message is returned. If the request meets the requirements in the check items, the DryRunOperation error code is returned. false (default): checks the API request. After the request passes the check, the 2XX HTTP status code is returned, and the endpoint is deleted.

Response parameters

Parameter	Type	Example	Description
RequestId	String	8D8992C1-6712-423C-BAC5-E5E817484C6B	The ID of the request.

Examples

Sample requests

```
https://[Endpoint]/?Action=DeleteVpcEndpoint
&EndpointId=ep-hp33b2e43fays7s8****
&RegionId=eu-west-1
&<Common request parameters>
```

Sample success responses

XML format

```
<DeleteVpcEndpointResponse>
  <RequestId>8D8992C1-6712-423C-BAC5-E5E817484C6B</RequestId>
</DeleteVpcEndpointResponse>
```

JSON format

```
{
  "RequestId": "8D8992C1-6712-423C-BAC5-E5E817484C6B"
}
```

Error codes

HttpCode	Error code	Error message	Description
400	EndpointOperationDenied	The specified operation of endpoint is not allowed.	The error message returned because the operation is not allowed when the endpoint is being processed.

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

13.Endpoint connections

13.1. EnableVpcEndpointConnection

Accepts endpoint connection requests.

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	EnableVpcEndpointConnection	The operation that you want to perform. Set the value to EnableVpcEndpointConnection .
Bandwidth	Integer	Yes	1024	The bandwidth of the connection from the endpoint to the endpoint service. Unit: Mbit/s.
EndpointId	String	Yes	ep-hp33b2e43fays7s8****	The ID of the endpoint.
RegionId	String	Yes	eu-west-1	The region ID of the endpoint from which connection requests are accepted. You can call the DescribeRegions operation to query region IDs.
ServiceId	String	Yes	epsrv-hp3vpx8yqxlby3j****	The ID of the endpoint service.
ClientToken	String	No	0c593ea1-3bea-11e9-b96b-88e9fe637760	The client token that is used to ensure the idempotence of the request. You can use the client to generate a value that is unique among different requests. ClientToken can contain only ASCII characters. It must be 1 to 64 characters in length.

Parameter	Type	Required	Example	Description
DryRun	Boolean	No	false	Specifies whether to only check the API request. Valid values: true: only checks the API request. If you select this option, the endpoint connection request is not accepted after the request passes the check. Check items include whether the AccessKey pair is valid, whether a RAM user is authorized, and whether the required parameters are specified. If the request fails to meet the requirements in the check items, an error message is returned. If the request meets the requirements in the check items, the DryRunOperation error code is returned. false (default): checks the API request. After the request passes the check, the 2XX HTTP status code is returned, and the endpoint connection request is accepted.

Response parameters

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

Examples

Sample requests

```
https://[Endpoint]/?Action=EnableVpcEndpointConnection
&Bandwidth=1024
&EndpointId=ep-hp33b2e43fays7s8****
&RegionId=eu-west-1
&ServiceId=epsrv-hp3vpx8yqxbly3i****
&<Common request parameters>
```

Sample success responses

XML format

```
<EnableVpcEndpointConnectionResponse>
  <RequestId>3109D437-5D6D-4A28-B5F5-EF936DExxx</RequestId>
</EnableVpcEndpointConnectionResponse>
```

JSON format

```
{
  "RequestId": "3109D437-5D6D-4A28-B5F5-EF936DExxx"
}
```

Error codes

HttpCode	Error code	Error message	Description
400	EndpointServiceNotFound	The specified Service does not exist.	The error message returned because the specified endpoint service does not exist.
400	EndpointConnectionNotFound	The specified endpoint connection does not exist.	The error message returned because the endpoint connection is not found.
400	EndpointConnectionOperationDenied	The endpoint is being connected.	The error message returned because the operation is not allowed when the endpoint connection is being processed.

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

13.2. UpdateVpcEndpointConnectionAttribute

Modifies the maximum bandwidth of an endpoint 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	UpdateVpcEndpointConnectionAttribute	The operation that you want to perform. Set the value to UpdateVpcEndpointConnectionAttribute .
EndpointId	String	Yes	ep-hp33b2e43fays7s8****	The ID of the endpoint.
RegionId	String	Yes	eu-west-1	The ID of the region where the endpoint is created. You can call the DescribeRegions operation to query region IDs.
ServiceId	String	Yes	epsrv-hp3vpx8yqxbly3j****	The ID of the endpoint service.
ClientToken	String	No	0c593ea1-3bea-11e9-b96b-88e9fe637760	The client token that is used to ensure the idempotence of the request. You can use the client to generate a value that is unique among different requests. ClientToken can contain only ASCII characters and cannot exceed 64 characters in length.

Parameter	Type	Required	Example	Description
DryRun	Boolean	No	false	Specifies whether to only check the API request. Valid values: true: only checks the API request. If you select this option, the maximum bandwidth is not modified after the request passes the check. Check items include whether the AccessKey pair is valid, whether the RAM user is authorized, and whether the required parameters are specified. If the request fails to meet the requirements in the check items, an error message is returned. If the request meets the requirements in the check items, the DryRunOperation error code is returned. false (default): checks the API request. After the request passes the check, the 2XX HTTP status code is returned, and the maximum bandwidth is modified.
Bandwidth	Integer	No	1000	The maximum bandwidth of the endpoint connection to be modified. Unit: Mbit/s.

Response parameters

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

Examples

Sample requests

```
https://[Endpoint]/?Action=UpdateVpcEndpointConnectionAttribute
&EndpointId=ep-hp33b2e43fays7s8****
&RegionId=eu-west-1
&ServiceId=epsrv-hp3vpx8yqxblby3i****
&<Common request parameters>
```

Sample success responses

XML format

```
<UpdateVpcEndpointConnectionAttributeResponse>
  <RequestId>3109D437-5D6D-4A28-B5F5-EF936DExxx</RequestId>
</UpdateVpcEndpointConnectionAttributeResponse>
```

JSON format

```
{
  "RequestId": "3109D437-5D6D-4A28-B5F5-EF936DExxx"
}
```

Error codes

HttpCode	Error code	Error message	Description
400	EndpointServiceNotFound	The specified Service does not exist.	The error message returned because the specified endpoint service does not exist.
400	EndpointServiceLocked	The specified Service is locked.	The error message returned because the endpoint service is locked.
400	EndpointServiceOperationDenied	The specified operation of endpoint service is not allowed.	The error message returned because the operation is not allowed when the endpoint service is being processed.

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

13.3. ListVpcEndpointConnections

Queries an endpoint 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	ListVpcEndpointConnections	The operation that you want to perform. Set the value to ListVpcEndpointConnections .

Parameter	Type	Required	Example	Description
ConnectionStatus	String	Yes	Disconnected	The status of the endpoint connection. Valid values: • Pending: The endpoint connection is being modified. • Connecting: The endpoint is waiting for the endpoint service to accept the connection request. • Connected: The endpoint is connected to the endpoint service. • Disconnecting: The endpoint is disconnecting from the endpoint service. • Disconnected: The endpoint is disconnected from the endpoint service. • Deleting: The endpoint is being deleted. • ServiceDeleted: The associated endpoint service is deleted.
EndpointId	String	Yes	ep-hp33b2e43fays7s8****	The ID of the endpoint.
EndpointOwnerId	Long	Yes	12345678	The ID of the account to which the endpoint belongs.
RegionId	String	Yes	eu-west-1	The ID of the region where the endpoint is created. You can call the DescribeRegions operation to query region IDs.
ServiceId	String	Yes	epsrv-hp3vpx8yqxbly3j****	The ID of the endpoint service.
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: 1 to 50 . Default value: 50 .

Response parameters

Parameter	Type	Example	Description
Connections	Array of Connection		The information about the endpoint connection.
Bandwidth	Integer	1024	The bandwidth of the endpoint connection. Unit: Mbit/s.
ConnectionStatus	String	Disconnected	The status of the endpoint connection. Valid values: • Pending: The endpoint connection is being modified. • Connecting: The endpoint is waiting for the endpoint service to accept the connection request. • Connected: The endpoint is connected to the endpoint service. • Disconnecting: The endpoint is disconnecting from the endpoint service. • DisConnected: The endpoint is disconnected from the endpoint service. • Deleting: The endpoint is being deleted. • ServiceDeleted: The associated endpoint service is deleted.
EndpointId	String	ep-hp33b2e43fays7s8** **	The ID of the endpoint.
EndpointOwnerId	Long	12345678	The ID of the account to which the endpoint belongs.
EndpointVpcId	String	vpc-hp356stwxg3fn2xe ****	The virtual private cloud (VPC) for which the endpoint is created.
ModifiedTime	String	2020-09-10T01:03:38Z	The time when the connection was modified.
ServiceId	String	epsrv-hp3vpx8yqxblby3i*** *	The ID of the endpoint service.
Zones	Array of Zone		The information about the zone.

Parameter	Type	Example	Description
EniId	String	eni- hp32lk0pyv6o94hs**	The ID of the endpoint elastic network interface (ENI).
ResourceId	String	lb- hp32z1wp5peaoox2 q****	The ID of the service resource.
VSwitchId	String	vsw- hp3uf6045ljdhd5zr**	The VSwitch to which the endpoint belongs.
ZoneDomain	String	ep- hp34jaz8ykl0exwt*** *-cn- huhehaote.epsrv- hp3vpx8yqxbly3i*** *.cn-huhehaote- b.privatelink.aliyuncs .com	The domain name of the zone.
ZoneId	String	eu-west-1a	The ID of the zone.
MaxResults	String	50	The number of entries to return on each page.
NextToken	String	caeba0bbb2be03f8 4eb48b699f0a4883	The token required by the next query. If the NextToken parameter is empty, it indicates that no subsequent query will be sent.
RequestId	String	0ED8D006-F706- 4D23-88ED- E11ED28DCAC0	The ID of the request.

Examples

Sample requests

```
https://[Endpoint]/?Action=ListVpcEndpointConnections
&ConnectionStatus=Disconnected
&EndpointId=ep-hp33b2e43fays7s8****
&EndpointOwnerId=12345678
&RegionId=eu-west-1
&ServiceId=epsrv-hp3vpx8yqxbly3i****
&<Common request parameters>
```

Sample success responses

XML format

```

<ListVpcEndpointConnectionsResponse>
  <Connections>
    <EndpointOwnerId>119059297981xxxx</EndpointOwnerId>
    <ModifiedTime>2020-09-10T01:03:38Z</ModifiedTime>
    <EndpointId>ep-hp34jaz8ykl0exwt****</EndpointId>
    <Bandwidth>1024</Bandwidth>
    <EndpointVpcId>vpc-hp3orxby7p2qbl2s3****</EndpointVpcId>
    <ConnectionStatus>Disconnected</ConnectionStatus>
    <ServiceId>epsrv-hp3vp8yqxblby3i****</ServiceId>
    <Zones>
      <ZoneId>cn-huhehaote-b</ZoneId>
      <EniId>eni-hp32lk0pyv6o94hs****</EniId>
      <ResourceId></ResourceId>
      <VSwitchId>vsw-hp3w4ds07w697gq5y****</VSwitchId>
      <ZoneDomain>ep-hp34jaz8ykl0exwt****-cn-huhehaote.epsrv-hp3vp8yqxblby3i****.cn-huhehaote-b
        .privatelink.aliyuncs.com</ZoneDomain>
    </Zones>
  </Connections>
  <Connections>
    <EndpointOwnerId>119059297981xxxx</EndpointOwnerId>
    <ModifiedTime>2020-09-10T00:56:19Z</ModifiedTime>
    <EndpointId>ep-hp36nuh3vk9ew4h9****</EndpointId>
    <Bandwidth>1024</Bandwidth>
    <EndpointVpcId>vpc-hp3orxby7p2qbl2s3****</EndpointVpcId>
    <ConnectionStatus>Disconnected</ConnectionStatus>
    <ServiceId>epsrv-hp3vp8yqxblby3i****</ServiceId>
    <Zones>
      <ZoneId>cn-huhehaote-b</ZoneId>
      <EniId>eni-hp37fhyo4xn4myam****</EniId>
      <ResourceId></ResourceId>
      <VSwitchId>vsw-hp3w4ds07w697gq5y****</VSwitchId>
      <ZoneDomain>ep-hp36nuh3vk9ew4h9****-cn-huhehaote.epsrv-hp3vp8yqxblby3i****.cn-huhehaot
        e-b.privatelink.aliyuncs.com</ZoneDomain>
    </Zones>
  </Connections>
  <RequestId>99680475-5E17-4D93-809C-DF331FFBA8A4</RequestId>
  <MaxResults>50</MaxResults>
</ListVpcEndpointConnectionsResponse>

```

JSON format

```
{
  "Connections": [
    {
      "EndpointOwnerId": "119059297981xxxx",
      "ModifiedTime": "2020-09-10T01:03:38Z",
      "EndpointId": "ep-hp34jaz8ykl0exwt****",
      "Bandwidth": 1024,
      "EndpointVpcId": "vpc-hp3orxby7p2qbl2s3****",
      "ConnectionStatus": "Disconnected",
      "ServiceId": "epsrv-hp3vpx8yqxlby3i****",
      "Zones": [
        {
          "ZoneId": "cn-huhehaote-b",
          "EniId": "eni-hp32lk0pyv6o94hs****",
          "ResourceId": "",
          "VSwitchId": "vsw-hp3w4ds07w697gq5y****",
          "ZoneDomain": "ep-hp34jaz8ykl0exwt****-cn-huhehaote.epsrv-hp3vpx8yqxlby3i****.cn-huhehaote-b
.privatelink.aliyuncs.com"
        }
      ]
    },
    {
      "EndpointOwnerId": "119059297981xxxx",
      "ModifiedTime": "2020-09-10T00:56:19Z",
      "EndpointId": "ep-hp36nuh3vk9ew4h9****",
      "Bandwidth": 1024,
      "EndpointVpcId": "vpc-hp3orxby7p2qbl2s3****",
      "ConnectionStatus": "Disconnected",
      "ServiceId": "epsrv-hp3vpx8yqxlby3i****",
      "Zones": [
        {
          "ZoneId": "cn-huhehaote-b",
          "EniId": "eni-hp37fhyo4xn4myam****",
          "ResourceId": "",
          "VSwitchId": "vsw-hp3w4ds07w697gq5y****",
          "ZoneDomain": "ep-hp36nuh3vk9ew4h9****-cn-huhehaote.epsrv-hp3vpx8yqxlby3i****.cn-huhehaot
e-b.privatelink.aliyuncs.com"
        }
      ]
    }
  ],
  "RequestId": "99680475-5E17-4D93-809C-DF331FFBA8A4",
  "MaxResults": 50
}
```

Error codes

HttpCode	Error code	Error message	Description
400	EndpointServiceNotFound	The specified Service does not exist.	The error message returned because the specified endpoint service does not exist.

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

13.4. DisableVpcEndpointConnection

Configures an endpoint service to reject the connection request from an endpoint.

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	DisableVpcEndpointConnection	The operation that you want to perform. Set the value to DisableVpcEndpointConnection .
EndpointId	String	Yes	ep-hp33b2e43fays7sg****	The ID of the endpoint.
RegionId	String	Yes	eu-west-1	The region ID of the endpoint from which you want to reject the connection request. You can call the DescribeRegions operation to query region IDs.
ServiceId	String	Yes	epsrv-hp3vpx8yqxblby3j****	The ID of the endpoint service.
ClientToken	String	No	0c593ea1-3bea-11e9-b96b-88e9fe637760	The client token that is used to ensure the idempotence of the request. You can use the client to generate a value that is unique among different requests. ClientToken can contain only ASCII characters and cannot exceed 64 characters in length.

Parameter	Type	Required	Example	Description
DryRun	Boolean	No	false	Specifies whether to only check the API request. Valid values: true: only checks the API request. If you select this option, the endpoint connection request is not rejected after the request passes the check. Check items include whether your AccessKey pair is valid, whether the RAM user is authorized, and whether the required parameters are specified. If the request fails to meet the requirements in the check items, an error message is returned. If the request meets the requirements in the check items, the DryRunOperation error code is returned. false (default): checks the API request. After the request passes the check, the 2XX HTTP status code is returned, and the endpoint connection request is rejected.

Response parameters

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

Examples

Sample requests

```
https://[Endpoint]/?Action=DisableVpcEndpointConnection
&EndpointId=ep-hp33b2e43fays7s8****
&RegionId=eu-west-1
&ServiceId=epsrv-hp3vpx8yqxblby3i****
&<Common request parameters>
```

Sample success responses

XML format

```
<DisableVpcEndpointConnectionResponse>
  <RequestId>3109D437-5D6D-4A28-B5F5-EF936DExxx</RequestId>
</DisableVpcEndpointConnectionResponse>
```

JSON format

```
{  
  "RequestId": "3109D437-5D6D-4A28-B5F5-EF936DExxx"  
}
```

Error codes

HttpCode	Error code	Error message	Description
400	EndpointServiceNotFound	The specified Service does not exist.	The error message returned because the specified endpoint service does not exist.
400	EndpointConnectionNotFound	The specified endpoint connection does not exist.	The error message returned because the endpoint connection is not found.
400	EndpointConnectionOperationDenied	The endpoint is being connected.	The error message returned because the operation is not allowed when the endpoint connection is being processed.

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

14. Zones

14.1. AddZoneToVpcEndpoint

Adds zones for an endpoint.

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	AddZoneToVpcEndpoint	The operation that you want to perform. Set the value to AddZoneToVpcEndpoint .
EndpointId	String	Yes	ep-hp33b2e43fays7sg****	The ID of the endpoint for which you want to add zones.
RegionId	String	Yes	eu-west-1	The ID of the region where the endpoint is created. You can call the DescribeRegions operation to query region IDs.
VSwitchId	String	Yes	vsw-hjkshjvdkdvd****	The VSwitch of the zone to be added. The system automatically creates an endpoint elastic network interface (ENI) and associates it with the VSwitch.
ZoneId	String	Yes	eu-west-1a	The ID of the zone to be added.

Parameter	Type	Required	Example	Description
DryRun	Boolean	No	false	Specifies whether to only check the API request. Valid values: true: only checks the API request. After the request passes the check, zones are not added for the endpoint. Check items include whether the AccessKey pair is valid, whether the RAM user is authorized, and whether the required parameters are specified. If the request fails to meet the requirements in the check items, an error message is returned. If the request meets the requirements in the check items, the DryRunOperation error code is returned. false (default): checks the API request. After the request passes the check, the 2XX HTTP status code is returned, and zones are added for the endpoint.
ClientToken	String	No	0c593ea1-3bea-11e9-b96b-88e9fe637760	The client token that is used to ensure the idempotence of the request. You can use the client to generate a value that is unique among different requests. ClientToken can contain only ASCII characters. It must be 1 to 64 characters in length.

Response parameters

Parameter	Type	Example	Description
RequestId	String	0c593ea1-3bea-11e9-b96b-88e9fe637760	The ID of the request.

Examples

Sample requests

```
https://[Endpoint]/?Action=AddZoneToVpcEndpoint
&EndpointId=ep-hp33b2e43fays7s8****
&RegionId=eu-west-1
&VSwitchId=vsw-hjkshjvdkdvd****
&ZoneId=eu-west-1a
&<Common request parameters>
```

Sample success responses

XML format

```
<AddZoneToVpcEndpointResponse>
  <RequestId>B40660B0-A67C-43B4-8C30-83BDBB541CFC</RequestId>
</AddZoneToVpcEndpointResponse>
```

JSON format

```
{
  "RequestId": "B40660B0-A67C-43B4-8C30-83BDBB541CFC"
}
```

Error codes

HttpCode	Error code	Error message	Description
400	EndpointNotFound	The specified Endpoint does not exist.	The error message returned because the specified endpoint is not found.
400	EndpointOperationDenied	The specified operation of endpoint is not allowed.	The error message returned because the operation is not allowed when the endpoint is being processed.
400	EndpointLocked	The specified Endpoint is locked.	The error message returned because the endpoint is locked.
400	EndpointConnectionOperationDenied	The endpoint is being connected.	The error message returned because the operation is not allowed when the endpoint connection is being processed.
400	EndpointZoneDuplicated	The zone is duplicated for the Endpoint.	The error message returned because the zones must not be duplicate.
400	EndpointServiceNotSupportedZone	The specified endpoint service does not support the zone.	The error message returned because the specified zone is not supported by the endpoint service.

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

14.2. ListVpcEndpointZones

Queries zones of an endpoint.

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	ListVpcEndpointZones	The operation that you want to perform. Set the value to ListVpcEndpointZones .
EndpointId	String	Yes	ep-hp33b2e43fays7s8****	The ID of the endpoint for which you want to query zones. After you specify an endpoint ID, the system queries the zones of the specified endpoint.
RegionId	String	Yes	eu-west-1	The ID of the region that you want to query. You can call the DescribeRegions operation to query region IDs.
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: 1 to 50 . Default value: 50 .

Response parameters

Parameter	Type	Example	Description
MaxResults	String	50	The number of entries returned per page.
NextToken	String	caeba0bbb2be03f84eb48b699f0a4883	The token required by the next query. If the NextToken parameter is empty, this indicates that no subsequent query will be sent.
RequestId	String	0ED8D006-F706-4D23-88ED-E11ED28DCAC0	The ID of the request.
Zones	Array of Zone		The details of zones.

Parameter	Type	Example	Description
EniId	String	eni-hp3c8qj1tyct8aqy*** *	The elastic network interface (ENI) of the endpoint.
EniIp	String	192.xx.xx.23	The IP address of the endpoint ENI.
RegionId	String	eu-west-1	The ID of the region where the endpoint is deployed.
VSwitchId	String	vsw-hjkshjvdkdvd****	The VSwitch of the zone. The system automatically creates an endpoint ENI and associates it with the VSwitch.
ZoneDomain	String	ep-hp3f033dp24c5yc9* ***-cn-huhehaote.epsrv-hp3itcpowf37m3d5* ***.cn-huhehaote-a.privatelink.aliyuncs.com	The name of the zone. After an endpoint is connected to an endpoint service, you can access the service resources from the zone.
ZoneId	String	eu-west-1a	The ID of the zone.
ZoneStatus	String	Wait	The status of the zone. Valid values: • Creating: The zone is being added. • Wait: The zone is pending for connecting to the endpoint service. • Connected: The zone is connected to the endpoint service. • Deleting: The zone is being deleted. • Disconnecting: The zone is being disconnected from the endpoint service. • Disconnected: The zone is disconnected from the endpoint service. • Connecting: The zone is being connected to the endpoint service.

Examples

Sample requests

```
https://[Endpoint]/?Action=ListVpcEndpointZones
&EndpointId=ep-hp33b2e43fays7s8****
&RegionId=eu-west-1
&<Common request parameters>
```

Sample success responses

XML format

```
<ListVpcEndpointZonesResponse>
  <RequestId>B40660B0-A67C-43B4-8C30-83BDBB541CFC</RequestId>
  <MaxResults>50</MaxResults>
  <Zones>
    <EniId>eni-hp3c8qj1tyct8aqy****</EniId>
    <ZoneId>cn-huhehaote-a</ZoneId>
    <VSwitchId>vsw-hp3rdstfpu35g24ey****</VSwitchId>
    <EniIp>192.xx.xx.58</EniIp>
    <ZoneStatus>Wait</ZoneStatus>
    <RegionId>cn-huhehaote</RegionId>
    <ZoneDomain>ep-hp3f033dp24c5yc9****-cn-huhehaote.epsrv-hp3itcpowf37m3d5****.cn-huhehaote-
a.privatelink.aliyuncs.com</ZoneDomain>
  </Zones>
</ListVpcEndpointZonesResponse>
```

JSON format

```
{
  "RequestId": "B40660B0-A67C-43B4-8C30-83BDBB541CFC",
  "MaxResults": 50,
  "Zones": [
    {
      "EniId": "eni-hp3c8qj1tyct8aqy****",
      "ZoneId": "cn-huhehaote-a",
      "VSwitchId": "vsw-hp3rdstfpu35g24ey****",
      "EniIp": "192.xx.xx.58",
      "ZoneStatus": "Wait",
      "RegionId": "cn-huhehaote",
      "ZoneDomain": "ep-hp3f033dp24c5yc9****-cn-huhehaote.epsrv-hp3itcpowf37m3d5****.cn-huhehaote-a
.privatelink.aliyuncs.com"
    }
  ]
}
```

Error codes

HttpCode	Error code	Error message	Description
400	EndpointNotFound	The specified Endpoint does not exist.	The error message returned because the specified endpoint is not found.

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

14.3. RemoveZoneFromVpcEndpoint

Removes a zone from an endpoint.

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	RemoveZoneFromVpcEndpoint	The operation that you want to perform. Set the value to RemoveZoneFromVpcEndpoint .
EndpointId	String	Yes	ep-hp33b2e43fays7sg****	The ID of the endpoint from which you want to remove the zone.
RegionId	String	Yes	eu-west-1	The region ID of the endpoint from which you want to remove the zone. You can call the DescribeRegions operation to query region IDs.
ZoneId	String	Yes	eu-west-1a	The ID of the zone that you want to remove.
DryRun	Boolean	No	false	Specifies whether to only check the API request. Valid values: true: only checks the API request. If you select this option, the specified zone is not removed after the request passes the check. Check items include whether the AccessKey pair is valid, whether the RAM user is authorized, and whether the required parameters are specified. If the request fails to meet the requirements in the check items, an error message is returned. If the request meets the requirements in the check items, the DryRunOperation error code is returned. false (default): checks the API request. After the request passes the check, the 2XX HTTP status code is returned, and the specified zone is removed.

Parameter	Type	Required	Example	Description
ClientToken	String	No	0c593ea1-3bea-11e9-b96b-88e9fe637760	The client token that is used to ensure the idempotence of the request. You can use the client to generate a value that is unique among different requests. ClientToken can contain only ASCII characters and cannot exceed 64 characters in length.

Response parameters

Parameter	Type	Example	Description
RequestId	String	0c593ea1-3bea-11e9-b96b-88e9fe637760	The ID of the request.

Examples

Sample requests

```
https://[Endpoint]/?Action=RemoveZoneFromVpcEndpoint
&EndpointId=ep-hp33b2e43fays7s8****
&RegionId=eu-west-1
&ZoneId=eu-west-1a
&<Common request parameters>
```

Sample success responses

XML format

```
<RemoveZoneFromVpcEndpointResponse>
  <RequestId>B40660B0-A67C-43B4-8C30-83BDBB541CFC</RequestId>
</RemoveZoneFromVpcEndpointResponse>
```

JSON format

```
{
  "RequestId": "B40660B0-A67C-43B4-8C30-83BDBB541CFC"
}
```

Error codes

HttpCode	Error code	Error message	Description
400	EndpointNotFound	The specified Endpoint does not exist.	The error message returned because the specified endpoint is not found.

HttpCode	Error code	Error message	Description
400	EndpointOperationDenied	The specified operation of endpoint is not allowed.	The error message returned because the operation is not allowed when the endpoint is being processed.
400	EndpointLocked	The specified Endpoint is locked.	The error message returned because the endpoint is locked.
400	EndpointConnectionOperationDenied	The endpoint is being connected.	The error message returned because the operation is not allowed when the endpoint connection is being processed.
400	EndpointZoneNotFound	The specified zone of Endpoint does not exist.	The error message returned because no zone is found for the endpoint.

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

15. Security groups

15.1. AttachSecurityGroupToVpcEndpoint

Associates an endpoint with a security group.

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	AttachSecurityGroupToVpcEndpoint	The operation that you want to perform. Set the value to AttachSecurityGroupToVpcEndpoint .
EndpointId	String	Yes	ep-hp33b2e43fays7sg****	The ID of the endpoint that you want to associate with the security group.
RegionId	String	Yes	eu-west-1	The ID of the region where the endpoint is created. You can call the DescribeRegions operation to query region IDs.
SecurityGroupId	String	Yes	sg-hp3c8qj1tyct90ej****	The ID of the security group with which you want to associate the endpoint.

Parameter	Type	Required	Example	Description
DryRun	Boolean	No	false	Specifies whether to only check the API request. Valid values: true: only checks the API request. If you select this option, the endpoint is not associated with the security group after the request passes the check. Check items include whether the AccessKey pair is valid, whether the RAM user is authorized, and whether the required parameters are specified. If the request fails to meet the requirements in the check items, an error message is returned. If the request meets the requirements in the check items, the DryRunOperation error code is returned. false (default): checks the API request. After the request passes the check, the 2XX HTTP status code is returned, and the endpoint is associated with the security group.
ClientToken	String	No	0c593ea1-3bea-11e9-b96b-88e9fe637760	The client token that is used to ensure the idempotence of the request. You can use the client to generate a value that is unique among different requests. ClientToken can contain only ASCII characters and cannot exceed 64 characters in length.

Response parameters

Parameter	Type	Example	Description
RequestId	String	8D778FF9-7640-4C13-BCD6-9265CA9A2F81	The ID of the request.

Examples

Sample requests

```
https://[Endpoint]/?Action=AttachSecurityGroupToVpcEndpoint
&EndpointId=ep-hp33b2e43fays7s8****
&RegionId=eu-west-1
&SecurityGroupId=sg-hp3c8qj1tyct90ej****
&<Common request parameters>
```

Sample success responses

XML format

```
<AttachSecurityGroupToVpcEndpointResponse>
  <RequestId>8D778FF9-7640-4C13-BCD6-9265CA9A2F81</RequestId>
</AttachSecurityGroupToVpcEndpointResponse>
```

JSON format

```
{
  "RequestId": "8D778FF9-7640-4C13-BCD6-9265CA9A2F81"
}
```

Error codes

HttpCode	Error code	Error message	Description
400	EndpointNotFound	The specified Endpoint does not exist.	The error message returned because the specified endpoint is not found.
400	EndpointOperationDenied	The specified operation of endpoint is not allowed.	The error message returned because the operation is not allowed when the endpoint is being processed.
400	EndpointLocked	The specified Endpoint is locked.	The error message returned because the endpoint is locked.
400	EndpointConnectionOperationDenied	The endpoint is being connected.	The error message returned because the operation is not allowed when the endpoint connection is being processed.
400	SecurityGroupExist	The specified security group already exists.	The error message returned because the specified security group already exists.

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

15.2. ListVpcEndpointSecurityGroups

Queries the security group that is associated with an endpoint.

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	ListVpcEndpointSecurityGroups	The operation that you want to perform. Set the value to ListVpcEndpointSecurityGroups .
EndpointId	String	Yes	ep-hp33b2e43fays7sg****	The ID of the endpoint.
RegionId	String	Yes	eu-west-1	The ID of the region where the endpoint is created. You can call the DescribeRegions operation to query region IDs.
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: 1 to 50. Default value: 50.

Response parameters

Parameter	Type	Example	Description
MaxResults	String	50	The number of entries to return on each page.
NextToken	String	caeba0bbb2be03f84eb48b699f0a4883	The token required by the next query. If the NextToken parameter is empty, this indicates that no subsequent query will be sent.
RequestId	String	0ED8D006-F706-4D23-88ED-E11ED28DCAC0	The ID of the request.

Parameter	Type	Example	Description
SecurityGroups	Array of SecurityGroup		The information about the security group.
SecurityGroupId	String	sg-hp33bw6ynvm2yb0e****	The ID of the security group that is associated with the endpoint.

Examples

Sample requests

```
https://[Endpoint]/?Action=ListVpcEndpointSecurityGroups
&EndpointId=ep-hp33b2e43fays7s8****
&RegionId=eu-west-1
&<Common request parameters>
```

Sample success responses

XML format

```
<ListVpcEndpointSecurityGroupsResponse>
  <SecurityGroups>
    <SecurityGroupId>sg-hp3c8qj1tyct90ej****</SecurityGroupId>
  </SecurityGroups>
  <SecurityGroups>
    <SecurityGroupId>sg-hp33bw6ynvm2yb0e****</SecurityGroupId>
  </SecurityGroups>
  <RequestId>8D778FF9-7640-4C13-BCD6-9265CA9A2F81</RequestId>
  <MaxResults>50</MaxResults>
</ListVpcEndpointSecurityGroupsResponse>
```

JSON format

```
{
  "SecurityGroups": [
    {
      "SecurityGroupId": "sg-hp3c8qj1tyct90ej****"
    },
    {
      "SecurityGroupId": "sg-hp33bw6ynvm2yb0e****"
    }
  ],
  "RequestId": "8D778FF9-7640-4C13-BCD6-9265CA9A2F81",
  "MaxResults": 50
}
```

Error codes

HttpCode	Error code	Error message	Description
400	EndpointNotFound	The specified Endpoint does not exist.	The error message returned because the specified endpoint is not found.

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

15.3.

DetachSecurityGroupFromVpcEndpoint

Disassociates an endpoint from a security group.

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	DetachSecurityGroupFromVpcEndpoint	The operation that you want to perform. Set the value to DetachSecurityGroupFromVpcEndpoint .
EndpointId	String	Yes	ep-hp33b2e43fays7sg****	The ID of the endpoint that you want to disassociate from the security group.
RegionId	String	Yes	eu-west-1	The ID of the region where the endpoint is created. You can call the DescribeRegions operation to query region IDs.
SecurityGroupId	String	Yes	sg-hp3c8qj1tyct90ej****	The ID of the security group from which you want to disassociate the endpoint.

Parameter	Type	Required	Example	Description
DryRun	Boolean	No	false	Specifies whether to only check the API request. Valid values: true: only checks the API request. If you select this option, the endpoint is not disassociated from the security group after the request passes the check. Check items include whether the AccessKey pair is valid, whether the RAM user is authorized, and whether the required parameters are specified. If the check fails to meet the requirements in the check items, the corresponding error message is returned. If the request meets the requirements in the check items, the DryRunOperation error code is returned. false (default): checks the API request. After the request passes the check, the 2XX HTTP status code is returned, and the endpoint is disassociated from the security group.
ClientToken	String	No	0c593ea1-3bea-11e9-b96b-88e9fe637760	The client token that is used to ensure the idempotence of the request. You can use the client to generate a value that is unique among different requests. ClientToken can contain only ASCII characters and cannot exceed 64 characters in length.

Response parameters

Parameter	Type	Example	Description
RequestId	String	8D778FF9-7640-4C13-BCD6-9265CA9A2F81	The ID of the request.

Examples

Sample requests

```
https://[Endpoint]/?Action=DetachSecurityGroupFromVpcEndpoint
&EndpointId=ep-hp33b2e43fays7s8****
&RegionId=eu-west-1
&SecurityGroupId=sg-hp3c8qj1tyct90ej****
&<Common request parameters>
```

Sample success responses

XML format

```
<DetachSecurityGroupFromVpcEndpointResponse>
  <RequestId>8D778FF9-7640-4C13-BCD6-9265CA9A2F81</RequestId>
</DetachSecurityGroupFromVpcEndpointResponse>
```

JSON format

```
{
  "RequestId": "8D778FF9-7640-4C13-BCD6-9265CA9A2F81"
}
```

Error codes

HttpCode	Error code	Error message	Description
400	SecurityGroupNotFound	The specified security group does not exist.	The error message returned because the specified security group does not exist.
400	EndpointMustContainSecurityGroup	The specified endpoint must have at least one security group.	The error message returned because the endpoint must be associated with at least one security group.

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