

VPC Endpoint

FAQs

Issue 01
Date 2024-12-11



Copyright © Huawei Cloud Computing Technologies Co., Ltd. 2024. All rights reserved.

No part of this document may be reproduced or transmitted in any form or by any means without prior written consent of Huawei Cloud Computing Technologies Co., Ltd.

Trademarks and Permissions



HUAWEI and other Huawei trademarks are the property of Huawei Technologies Co., Ltd.

All other trademarks and trade names mentioned in this document are the property of their respective holders.

Notice

The purchased products, services and features are stipulated by the contract made between Huawei Cloud and the customer. All or part of the products, services and features described in this document may not be within the purchase scope or the usage scope. Unless otherwise specified in the contract, all statements, information, and recommendations in this document are provided "AS IS" without warranties, guarantees or representations of any kind, either express or implied.

The information in this document is subject to change without notice. Every effort has been made in the preparation of this document to ensure accuracy of the contents, but all statements, information, and recommendations in this document do not constitute a warranty of any kind, express or implied.

Huawei Cloud Computing Technologies Co., Ltd.

Address: Huawei Cloud Data Center Jiaoxinggong Road
Qianzhong Avenue
Gui'an New District
Gui Zhou 550029
People's Republic of China

Website: <https://www.huaweicloud.com/intl/en-us/>

Contents

1 What Should I Do If the VPC Endpoint I Purchased Cannot Connect to a VPC Endpoint Service?.....	1
2 What Are the Differences Between VPC Endpoints and VPC Peering Connections?	2
3 What Statuses Are Available for a VPC Endpoint Service and VPC Endpoint?.....	4
4 Does VPC Endpoint Support Cross-Region Access?.....	6

1 What Should I Do If the VPC Endpoint I Purchased Cannot Connect to a VPC Endpoint Service?

1. Confirm that the security group of the ECS NIC is correctly configured.
 - On the ECS details page, view the security group details.
 - Check whether the security group permits IP addresses in the 198.19.128.0/17 CIDR block in the inbound direction. If it does not, add inbound rules for this CIDR block based on service requirements.
2. Confirm that the network ACL of the subnet used by the ECS NIC does not block traffic.

If you can configure the network ACL on the left part of the VPC console, confirm that the subnet of the associated VPC endpoint allows traffic to pass through.
3. If you configure a load balancer as the backend resource for the VPC endpoint service, and enable access control for the listener associated with the load balancer, ensure to allow traffic from 198.19.128.0/17.

2 What Are the Differences Between VPC Endpoints and VPC Peering Connections?

Table 2-1 describes differences between VPC endpoints and VPC peering connections.

 **NOTE**

VPC endpoints and VPC peering connections are two different resources. You can configure either of them based on your connectivity needs.

Table 2-1 Differences

Category	VPC Peering Connection	VPC Endpoint
Security	All resources in a VPC, such as ECSs and load balancers, can be accessed.	Allows access to a specific service or application. Only the ECSs and load balancers in the VPC for which VPC endpoint services are created can be accessed.
CIDR block overlap	Not supported If two VPCs have overlapping subnets, the VPC peering connection will not work.	Supported If you use a VPC endpoint to connect two VPCs, you do not have to worry about overlapping subnets.
Communications mode	VPCs connected through a peering connection can communicate with each other.	Requests can only be initiated from a VPC endpoint to a VPC endpoint service, but not the other way around.

Category	VPC Peering Connection	VPC Endpoint
Route configuration	If a peering connection is established between two VPCs, add routes to the VPCs so that they can communicate with each other.	For two VPCs that are connected through a VPC endpoint, the route has been configured, and you do not need to configure it again.
Access using VPN/Direct Connect	Supported You can create a VPC Peering connection to connect your on-premises data center to a cloud service using a VPN connection or a direct connection.	Supported You can create a VPC endpoint to connect your on-premises data center to a cloud service using a VPN connection or a direct connection over an internal network.
Cross-region access	Not supported VPC Peering supports only communications between two VPCs in the same region.	VPC Endpoint does not support cross-region access. However, it can be used with Cloud Connect to implement cross-region access. You can use Cloud Connect to enable communications between VPCs in different regions.

3 What Statuses Are Available for a VPC Endpoint Service and VPC Endpoint?

Table 3-1 describes statuses of a VPC endpoint service and their meanings.

Table 3-1 Statuses of a VPC endpoint service

Status	Description
Creating	Indicates that the VPC endpoint service is being created.
Available	Indicates that the VPC endpoint service is created and can accept a VPC endpoint.
Failed	Indicates that the VPC endpoint service fails to be created.
Deleting	Indicates that the VPC endpoint service is being deleted.
Deleted	Indicates that the VPC endpoint service has been deleted.

Table 3-2 describes statuses of a VPC endpoint and their meanings.

Table 3-2 Statuses of a VPC endpoint

Status	Description
Pending acceptance	Indicates that the VPC endpoint is pending acceptance of the owner of the associated VPC endpoint service.
Creating	Indicates that the VPC endpoint is connecting to the associated VPC endpoint service.
Accepted	Indicates that the VPC endpoint is accepted by the associated VPC endpoint service.
Rejected	Indicates that the VPC endpoint is rejected by the associated VPC endpoint service.

Status	Description
Failed	Indicates that the VPC endpoint fails to connect to the associated VPC endpoint service.
Deleting	Indicates that the VPC endpoint is being deleted.

4 Does VPC Endpoint Support Cross-Region Access?

VPC endpoint services cannot be accessed across regions, but you can use Cloud Connect and VPC Endpoint together to implement cross-region access.

For example, if a VPC endpoint service is configured in VPC 1 in the CN-Hong Kong region, you can buy a VPC endpoint in VPC 2 in the AP-Singapore region and use this VPC endpoint to access the VPC endpoint service through Cloud Connect.