

Private Link

Getting Started



Tencent Cloud

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Getting Started

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This guide will walk you through the process of quickly creating a private connection service, allowing you to share cloud services deployed in your VPC with other VPCs under the same account and within the same region.

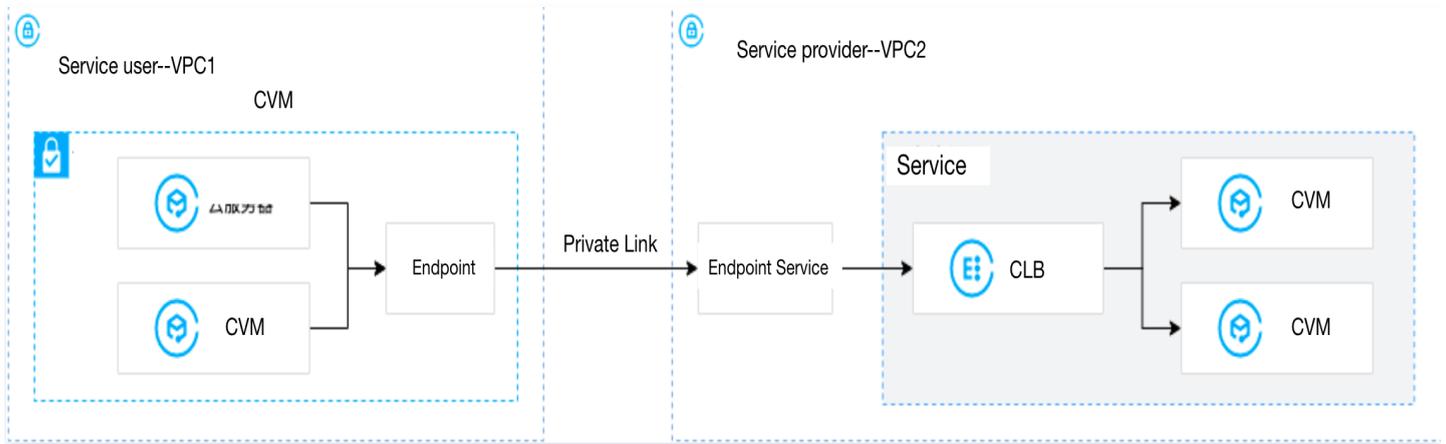
Background Information

A Virtual Private Cloud (VPC) is your exclusive cloud-based Virtual Private Cloud, with complete isolation between different VPCs by default. By using Private Link Service, you can establish secure and stable access connections between Tencent Cloud VPCs and other VPCs, simplifying network architecture and avoiding potential security risks associated with public network access.

To establish a connection using Private Link, you need to create both an endpoint and an endpoint service. Before creating the endpoint service, you must create an internal Layer 4 Cloud Load Balancer (CLB) instance and a listener associated with the Cloud Virtual Machine (CVM) instance where your service is deployed. Then, when creating the endpoint service, associate it with the CLB instance. At this point, the endpoint service will serve as the access entry point for the service provider's business, allowing the service consumer's endpoint to request a connection. Once the connection is successfully established, the service consumer can access the service provider's deployed business services.

Scenario Example

In this guide, we will use the following business scenario as an example. A company has its business distributed across two Virtual Private Clouds: VPC1 and VPC2. Due to business expansion, the company has deployed relevant service resources in VPC2 and wishes to share the services in VPC2 with VPC1 for access. To avoid potential security risks associated with public network access, Tencent Cloud's Private Link is used to implement a secure private network access solution from VPC1 to VPC2.



Preparations

- Service provider's VPC2 and service consumer's VPC1 have been created. For more information, see [Creating Virtual Private Cloud](#).
- In the service provider's VPC2, an internal Layer 4 CLB instance has been created, and related service resources have been deployed in the backend Cloud Virtual Machine instances. Please ensure that the backend Cloud Virtual Machine instances can properly handle requests forwarded by the Cloud Load Balancer. For more information, refer to the [Cloud Load Balancer Quick Start Guide](#).
- Please ensure that the security group associated with the Cloud Virtual Machine in the service provider's VPC2 has allowed the 11.163.0.0/16 address range. For more information, see [Adding Security Group Rules](#), as shown in the following figure:

Inbound rules		Outbound rules			
<input type="button" value="Add rule"/> <input type="button" value="Import rule"/> <input type="button" value="Sort by priority"/> <input type="button" value="Edit all"/> <input type="button" value="Delete"/> <input type="button" value="Open all common ports"/> How to Set		<input type="text" value="Separate keywords with ' '; press Enter to separate filter"/> <input type="button" value="Q"/> <input type="button" value="↓"/>			
<input type="checkbox"/> Source	Protocol+Port	Policy	Remark	Modification time	Operation
<input type="checkbox"/> 11.163.0.0/16	ALL	Allow		2023-08-25 16:13:08	Edit Insert Delete

Instructions

Step 1: Service provider creates an Endpoint Service

Note

In this example, the service provider's VPC2 has created a Layer 4 private network CLB, with the backend Cloud Virtual Machine instances already deployed with the

relevant business services. The security group of the Cloud Virtual Machine instances has allowed the 11.163.0.0/16 IP address range.

1. Log in to the [Virtual Private Cloud Console](#).
2. Click **Private Link > Endpoint Services** in the left sidebar.
3. Click **Create**, and in the pop-up window for creating a new Endpoint Service, configure the relevant parameters.

Create VPC endpoint service ✕

Service name: ✔

Region: Southwest China (Chengdu)

Network: ✔

Service type: ✔

Backend instance: ✔

Accept endpoint connection request: No Yes ✔

Name	Description
Service name	Customize the Endpoint Service name.
Region	Endpoint service region.
Network	Select the associated VPC; in this example, choose VPC2.
Cloud Load Balancer	Select the Cloud Load Balancer instance that has been created in the VPC. In this example, choose the CLB instance already created in VPC2.

Accept endpoint connection request	<p>Specify whether the endpoint service automatically accepts or does not accept connection requests initiated by the endpoint. By default, it is set to not accept. In this example, we choose accept:</p> <ul style="list-style-type: none">• When Yes is selected for automatic acceptance, the endpoint service will accept all connection requests from endpoints by default. After the endpoint is successfully created, its status will be Available.• When choosing not to accept automatic connections, the endpoint connection status will be Pending Acceptance. The endpoint service must manually perform Accept Connection to change the status from Pending Acceptance to Available.
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4. After completing the parameter settings, click **OK** to finish creating the Endpoint Service.

Step 2: Service consumer creates a VPC endpoint

Note

In this example, the access is between VPCs under the same account, so there is no need to add the service consumer's whitelist account in the endpoint service. If the access is between VPCs across different accounts, the service consumer needs to provide their UIN account to the service provider in advance. The service provider's endpoint service should add the whitelist first, and then proceed with this step. For more information, see [Service Sharing Between VPCs Across Accounts](#).

1. Click **Endpoints** in the left sidebar.
2. Click **Create** and, in the pop-up window for creating a new endpoint, configure the relevant parameters.

Create VPC endpoint ✕

Name ✔

Region Southwest China (Chengdu)

Network ✔

Subnet ✔

IP address Get an auto-assigned IP

Service type Custom service

Destination account type My account Other Tencent Cloud Account

Verify ✔

Parameter name	Description
Name	Specify a custom name for the endpoint.
Region	Endpoint node region.
Network	Select the VPC where the Endpoint is located; in this example, choose VPC1.
Subnet	Select the subnet where the Endpoint is located.
IP Addresses	Endpoint IP address: You can specify an IP address, which should be a private IP within VPC1, or you can choose to have the IP address automatically assigned.
Destination account type	Select the account to which the Endpoint Service to be connected belongs. In this example, choose My Account : <ul style="list-style-type: none"> For access between VPCs under the same account, select My Account. For cross-account VPC access, select Other Account.
Select a service	After entering the Endpoint Service ID, click Validate. Only validated services can establish a connection.

3. After completing the parameter configuration, click **Confirm**. In this example, since the Endpoint Service in [Step 1](#) is set to automatically accept connections, it will accept connection requests from all Endpoints by default. Therefore, once the Endpoint is created successfully, its status will be **Available**.

ID/Name	Monitoring	Status	Network	Subnet	IP address	Elastic IP	Service	Operation
vpc-...h test-...		Available	vpc-...h test-...	subnet-... test-...	...	-	vpcsvc-... test-...	Delete

Step 3: Service consumer initiates access request for connection validation

1. Log in to a CVM instance under the service consumer's VPC1 and access the service provider's backend services via VIP+VPORT.
2. In this example, telnet is used to verify connectivity by executing *telnet VIP VPORT*.

Note

If the server does not have telnet installed, please run `yum install telnet` to install telnet first.

Obtain the Endpoint VIP:

VPC endpoint Chengdu 5 All VPCs Help of VPC endpoint

Private Link has been commercialized since August 15, 2022 with the price of 0.07CNY/instance/hour and 0.07CNY/GB. [Learn more](#)

Create ID/Name

ID/Name	Monitoring	Status	Network	Subnet	IP address	Elastic IP	Service	Operation
vpc-e-7 test-...		Available	vpc-...h test-...	subnet-... test-...	10...:11	-	vpcsvc-... test-...	Delete

Obtaining the CLB VPort:

HTTP/HTTPS listener(Configured1)

Create

+ 80(HTTP:80)	+	Click the left node to view details
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If the following message appears, it indicates that the connection has been established:

Note

In case of connection issues, please document the configuration information and promptly contact [Online Customer Support](#).

```
[root@VM-2-15-centos ~]# telnet 172.16.2.16 1044
Trying 172.16.2.16...
Connected to 172.16.2.16.
Escape character is '^]'.
```

Documentation

- [Cross-Region VPC Service Sharing](#)
- [Sharing Services Across VPCs in Different Accounts](#)