

# Peering Connection

## Product Introduction

## Product Documentation



## Copyright Notice

©2013-2024 Tencent Cloud. All rights reserved.

Copyright in this document is exclusively owned by Tencent Cloud. You must not reproduce, modify, copy or distribute in any way, in whole or in part, the contents of this document without Tencent Cloud's the prior written consent.

## Trademark Notice



All trademarks associated with Tencent Cloud and its services are owned by Tencent Cloud Computing (Beijing) Company Limited and its affiliated companies. Trademarks of third parties referred to in this document are owned by their respective proprietors.

## Service Statement

This document is intended to provide users with general information about Tencent Cloud's products and services only and does not form part of Tencent Cloud's terms and conditions. Tencent Cloud's products or services are subject to change. Specific products and services and the standards applicable to them are exclusively provided for in Tencent Cloud's applicable terms and conditions.

# Contents

## Product Introduction

Overview

Features

Use Limits

Relevant Products

# Product Introduction

## Overview

Last updated : 2024-10-29 10:51:43

### Introduction

A peering connection is a high-bandwidth and high-quality cloud resources interconnection service that enables communication between resources on Tencent Cloud. Peering Connection features multi-account support and diverse heterogeneous network interconnections, easily achieving complex network scenarios like cloud games on the same server. It supports inter-Virtual Private Cloud (VPC) communication, and VPC-to-Bare Metal (BM) VPC communication, meeting your diverse business deployment needs.

#### Note :

Peering Connection service provides service-level agreement (SLA) guarantee. If the SLA standards are not met, you can apply for compensation according to the [Peering Connection SLA](#).

The network quality of Peering Connection is rated as Gold.

Peering Connection currently does not support cross-region connections. If you have cross-region connection requirements, you can use Tencent Cloud Connect Network (CCN). For details, see [Upgrading Migration of the Cross-Region Interconnection Service from Peering Connection to CCN](#).

VPC Peering Connection is a cross-VPC network interconnection service within the same region for office data synchronization. It enables route intercommunication between two VPCs as if they were part of the same network. By configuring routing policies at both ends, interconnection between VPCs of the same or different users in the same region can be achieved. Peering Connection does not rely on any specific hardware, thus avoiding single points of failure or bandwidth bottlenecks.

## Product advantages

Peering connections have the following advantages over transmission on Internet.

#### Higher quality

Using the same in-house internal network as Tencent Group's businesses, the peering connections are not affected by the quality of Internet. Therefore, the peering connections provide significantly better availability, latency, and packet loss rate.

#### Higher security

The peering connections are protected by Tencent [Anti-DDoS Pro](#) system, which is of high security.

The peering connections do not pass through wide area networks or ISP linkage. Therefore, they do not face the risk that packets are intercepted during transmission on Internet.

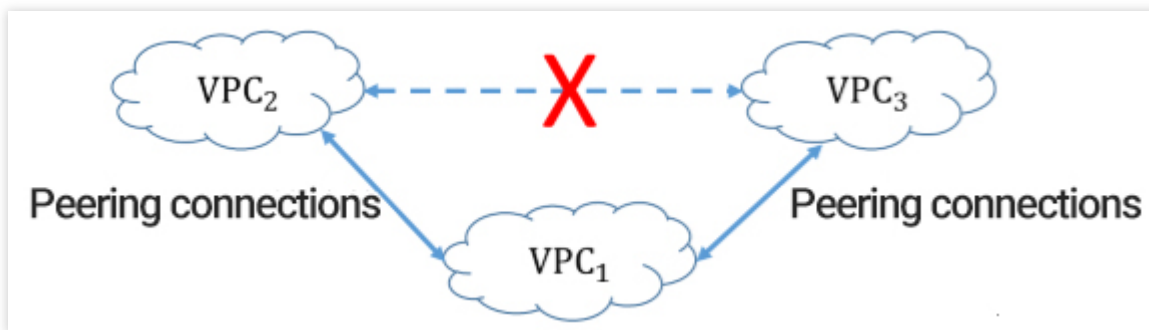
# Features

Last updated : 2024-10-29 10:53:08

## Non-transitive connectivity of peering connections

A peering connection enables connectivity between two VPCs, but the connectivity cannot be transited.

For example, as shown in the following figure, peering connections are created between VPC 1 and VPC 2, and between VPC 1 and VPC 3. However, due to the non-transitivity of peering connections, traffic cannot flow between VPC 2 and VPC 3.



### Note :

Even if a peering connection is created, both ends of the connection cannot communicate with each other if routes for sending and returning packets are not configured at both ends.

## Peering Connection Gateway Bandwidth Limiting

Peering Connection Gateway Bandwidth Limiting provides monitoring and controlling capabilities at the IP-gateway level. The refined and visible gateway traffic enables network operation personnel to have a clear overview of the traffic within a gateway. The capability to limit speed at the IP-gateway level can also help block abnormal traffic.

### Example:

One early morning, a company's gateway traffic suddenly surged. With the help of intelligent gateway traffic monitoring, operation personnel were able to trace the IP address responsible for the surge at that particular time, enabling them to quickly identify the root cause. Moreover, gateway traffic monitoring offers bandwidth control at the IP-gateway level, limiting bandwidth from certain IP addresses to a gateway, blocking abnormal traffic, and ensuring the security of key business operations.

### Primary value of gateway traffic monitoring:

Precise gateway troubleshooting capabilities can minimize network downtime. With real-time traffic query and top N ranking features, it can analyze source IP addresses and their key metrics to quickly locate abnormal traffic.

By using the monitoring and controlling capabilities at the IP-gateway level, coupled with minute-level network traffic queries, it can promptly detect abnormal traffic that monopolizes bandwidth. By setting traffic monitoring at the IP-gateway level, the stability and smooth operation of core business are ensured.

All-time, all-flow gateway traffic analysis capability helps reduce cloud network costs. By controlling costs through Quality of Service (QoS), it can limit the bandwidth of non-critical businesses under a limited network budget to reduce costs.

# Use Limits

Last updated : 2024-10-29 10:53:48

## Connection limitations

Note the following when you use a peering connection:

To enable real communication between both ends of a peering connection, you must configure routing rules in the route tables of both the sending and receiving ends.

If the acceptor does not accept a peering connection request, the request will automatically expire after 7 days.

Do not accept peering connection requests from unknown accounts because they may pose risks to your network.

The VPC CIDR blocks on both ends of a peering connection cannot overlap. Otherwise, an error will occur when the connection is connected.

For peering connection, the CIDR blocks of multiple peer networks of one VPC cannot overlap. Otherwise, an error will occur.

Either end of a peering connection can interrupt the connection. Then, traffic between the two VPCs is disconnected immediately.

There is no bandwidth cap for an intra-region peering connection, and a bandwidth cap must be set for a cross-region peering connection.

This feature is in grayscale release in Nanjing and Tianjin. If you need to use it, please [submit a ticket](#) for consultation.

## Resource limitations

Resource	Limitation	Description
Bandwidth cap for peering connection	5Gbps	If you need higher bandwidth, please <a href="#">submit a ticket</a> .
Max number of peering connections supported by each VPC	10	-

For more information, see [other service limitations on a VPC](#).



# Relevant Products

Last updated : 2024-10-23 11:08:29

For information on related products, see the following table.

Product name	Relationship with peering connections
<a href="#">CVM</a>	The CVMs at either end of a peering connection can access all the resources at the peer end, including CVMs, databases, and CLBs.
<a href="#">CLB</a>	CVMs at either end of a peering connection can access all resources of at the peer end, including CVMs, databases, and CLBs.
<a href="#">VPC</a>	A peering connection enables communication between two VPCs.
<a href="#">Route table</a>	A peer connection enables communication only after route tables are correctly configured at both ends.
<a href="#">Classiclink</a>	A peering connection enables communication between two VPCs, while Classiclink enables communication between a basic network and a VPC.
<a href="#">Cloud Monitoring</a>	You can log in to the Cloud Monitoring console to set alarm policies.