Alibaba Cloud vpn gateway

FAQ

vpn gateway FAQ / Legal disclaimer

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II Issue: 20180930

vpn gateway FAQ / Legal disclaimer

vpn gateway FAQ / Generic conventions

Generic conventions

Table -1: Style conventions

Style	Description	Example
	This warning information 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.
A	This warning information 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 restore business.
	This indicates warning information, supplementary instructions, and other content that the user must understand.	Note: Take the necessary precautions to save exported data containing sensitive information.
	This indicates supplemental instructions, best practices, tips, and other content that is good to know for the user.	Note: You can use Ctrl + A to select all files.
>	Multi-level menu cascade.	Settings > Network > Set network type
Bold	It is used for buttons, menus, page names, and other UI elements.	Click OK .
Courier font	It is used for commands.	Run the cd /d C:/windows command to enter the Windows system folder.
Italics	It is used for parameters and variables.	bae log listinstanceid Instance_ID
[] or [a b]	It indicates that it is a optional value, and only one item can be selected.	ipconfig [-all -t]
{} or {a b}	It indicates that it is a required value, and only one item can be selected.	swich {stand slave}

vpn gateway FAQ / Contents

Contents

Legal disclaimer	I
Generic conventions	I
1 VPN Gateway	1
2 IPsec connections	3

II Issue: 20180930

vpn gateway FAQ / 1 VPN Gateway

1 VPN Gateway

1. Does VPN Gateway support the classic network?

Not supported. VPN Gateway supports only the VPC network. If you want to use VPN Gateway in the classic network, you must enable the ClassicLink function in VPC. For more information, see *Use IPsec-VPN in the classic network*.

2. What are the prerequisites for a local site to access VPC through the IPsec-VPN function?

A static public IP and a gateway device supporting IKEv1 and IKEv2 are required. The CIDR block of the VPC and the CIDR block of the local site do not conflict with each other. For more information, see *Configure a site-to-site connection*.

3. Can VPCs in different regions use VPN Gateway to achieve intercommunication?

Yes. For more information, see *Configure a VPC-to-VPC connection*.

4. Which local gateways does VPN Gateway support?

IPsec connections support IKEv1 and IKEv2 protocols. Therefore, any device that supports these two protocols can connect to Alibaba Cloud VPN Gateway. These devices include those from Huawei, H3C, Cisco, ASN, Juniper, SonicWall, Nokia, IBM, and Ixia. For more information, see *Configure H3C firewall*.

5. Does VPN Gateway support SSL-VPN?

Yes. For more information, see *Tutorial overview*.

6. How many IPsec connections can be created for each VPN Gateway?

Each VPN Gateway can support up to 10 IPsec connections. If you want more IPsec connections, create more VPN Gateways.

7. Can I use VPN Gateway to access the Internet?

No, it cannot. VPN Gateway only provides intranet access to VPCs. It does not provide access to the Internet.

8. Does the traffic between two VPCs connected by VPN Gateway go through the Internet?

No. Cross-region VPC intercommunication is achieved through VPN, and the traffic passes through Alibaba Cloud network instead of the Internet.

vpn gateway FAQ / 1 VPN Gateway

9. Can I configure multiple remote networks in one IPsec connection?

Yes. You can separate the networks by commas. We recommend that you use the IKEv2 protocol.

10. Can I downgrade the VPN Gateway configuration?

Yes. You can submit a ticket to downgrade the configuration.

11. Can a VPN Gateway instance purchased before the launching of the SSL-VPN function use this function?

You cannot directly enable the SSL-VPN function on a VPN Gateway instance purchased before the launching of this function. You and must open a ticket if you want to enable the SSL-VPN function in this situation.

FAQ / 2 IPsec connections

2 IPsec connections

1. What should I do if the IPsec connection status is "Phase 1 of IKE Tunnel Negotiation Failed "?

Most reasons for the negotiation failure in the first phase are due to inconsistent parameter configurations. Pay careful attention to parameter configurations between the first-phase configuration of the Alibaba Cloud VPN gateway and the local VPN gateway. Possible reasons for the negotiation failure in the first phase include:

- The pre-shared keys are inconsistent.
- The IKE protocol versions are inconsistent.
- The negotiation modes are inconsistent.
- · The Locallds or Remotelds are inconsistent.
- The encryption or authentication algorithms are inconsistent.
- The DH groups are inconsistent. For some devices, you must manually specify the parameter.
- The VPN gateway on the local data center has not enabled NAT traversal.

In some extreme cases, the negotiation fails even when the parameters are completely consistent . In this situation, we recommend that you change the negotiation mode to the aggressive mode.

2. What should I do if the IPsec connection status is "Phase 2 of IKE Tunnel Negotiation Failed "?

Potential reasons of the negotiation failure in the second phase include:

- The local network/remote network configured in the Alibaba Cloud VPN gateway is inconsiste
 nt with that configured in the VPN gateway of the local data center. For some local VPN
 gateways, you can use ACL to configure the local network/remote network. At this time, you
 must refer to related operation manuals.
- The encryption or authentication algorithms are inconsistent.
- The DH groups are inconsistent. For some devices, you must manually specify the parameter.

3. Why the IPsec connection status is "Phase 2 of IKE Tunnel Negotiation Succeeded", but ECS instances in the VPC cannot access servers in the local data center?

If the local data center uses a public IP as a private IP and ECS instances in the local data center can access the Internet. You can refer to the following information to check route configurations:

Check route configurations on the VRouter.

Issue: 20180930 3

- Check firewall/iptables configurations of the local data center and make sure that accesses from the private networks of the VPC are allowed.
- 4. Why the IPsec connection status is "Phase 2 of IKE Tunnel Negotiation Succeeded", but servers in the local data center cannot access ECS instances in the VPC?
 - 1. Check if the routing and ACL configurations in the local data center allow traffic destined for the VPC to enter the VPN tunnel.
 - 2. Check if security group rules of the ECS instances allow accesses from the private networks of the local data center.
- 5. Why the IPsec connection status is "Phase 2 of IKE Tunnel Negotiation Succeeded", but in multi-network scenarios some networks can communicate normally while some networks cannot?

In multi-network scenarios, we recommend that you use the IKE V2 protocol.

If you have used the IKE V2 protocol but the problem persists, we recommend that you check the SA (Security Association) status of the VPN gateway of the local data center. Normally there is only one SA. For example, 172.30.96.0/19 === 10.0.0.0/8 172.30.128.0/17.

If there are multiple SAs, the VPN gateway of the local data center is using a non-standard IKE V2 protocol. At this time, you can only use multiple IPsec connections to connect the networks. For example, you can split the IPsec connection 172.30.96.0/19 <=> 10.0.0.0/8 172.30.128.0/17 to IPsec connection A 172.30.96.0/19 <=> 10.0.0.0/8 and IPsec connection B: 172.30.96.0/19 <=> 172.30.128.0/17.



Note:

Because two separated IPsec connections must share the first-phase SA, the first-phase negotiation parameters of the two IPsec connections must be consistent.