Alibaba Cloud

VPN Gateway Product Overview

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C-J Alibaba Cloud

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Document conventions

Style	Description	Example
A 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.
O 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.
C) 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.
⑦ 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 cd /d C:/window command to enter the Windows system folder.
Italic	Italic formatting is used for parameters and variables.	bae log listinstanceid Instance_ID
[] or [a b]	This format is used for an optional value, where only one item can be selected.	ipconfig [-all -t]
{} or {a b}	This format is used for a required value, where only one item can be selected.	switch {active stand}

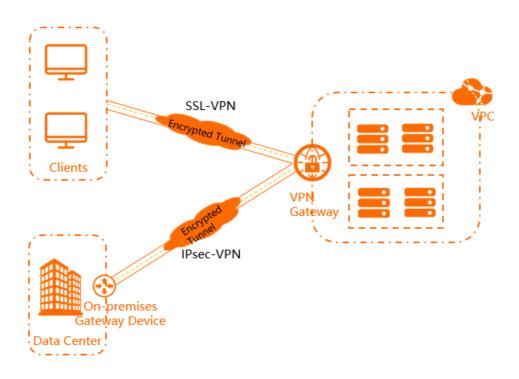
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1.What is VPN Gateway?

VPN Gateway is an Internet-based service that securely and reliably connects enterprise data centers, office networks, and Internet terminals to virtual private clouds (VPCs) of Alibaba Cloud through encrypted channels.

Note To comply with the relevant national regulations and policies, Alibaba Cloud VPN Gateway does not provide Internet access services.



Features

VPN Gateway supports both IPsec-VPN connections and SSL-VPN connections.

IPsec-VPN

IPsec-VPN connects networks based on routes. It facilitates the configuration and maintenance of VPN policies, and provides flexible traffic routing methods.

You can use IPsec-VPN to connect a data center to a VPC or connect two VPCs. IPsec-VPN supports the IKEv1 and IKEv2 protocols. All on-premises gateway devices that support these two protocols can connect to VPN gateways on Alibaba Cloud.

For more information, see Overview of IPsec-VPN.

• SSL-VPN

SSL-VPN connects networks based on the OpenVPN architecture. After you deploy the required resources, you can load the SSL client certificate to your client and initiate an SSL-VPN connection between the client and a VPC. This way, your client can access applications and services in the VPC.

For more information, see Overview of SSL-VPN.

Benefits

- High security: You can use the IKE and IPsec protocols to encrypt data for secure and reliable data transmission.
- High availability: VPN Gateway adopts the hot-standby architecture to achieve failover within a few seconds, session persistence, and zero service downtime.
- Cost-effectiveness: The encrypted Internet-based connections provided by VPN Gateway are more cost-effective than Express Connect circuits.
- Ease of use: VPN Gateway is a ready-to-use service. VPN gateways start to work immediately after they are deployed.

2.Scenarios

VPN Gateway is an Internet-based service that securely and reliably connects enterprise data centers, office networks, and Internet terminals to virtual private clouds (VPCs) of Alibaba Cloud through encrypted channels. This topic describes the common scenarios of VPN Gateway.

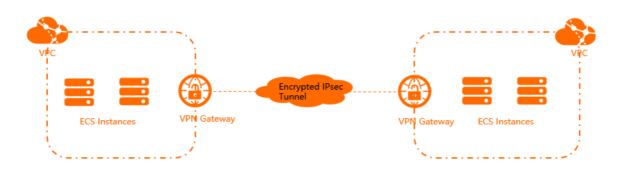
Connect a data center to a VPC

You can use IPsec-VPN to connect a data center to a VPC and build a hybrid cloud. For more information, see Connect a data center to a VPC.



Connect two VPCs

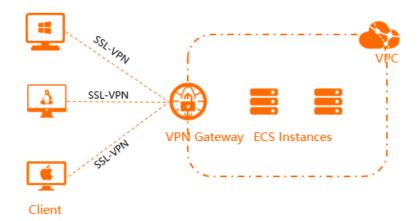
You can use IPsec-VPN to connect two VPCs. This way, cloud resources can be shared across the VPCs. For more information, see Establish IPsec-VPN connections between two VPCs.



Connect a client to a VPC

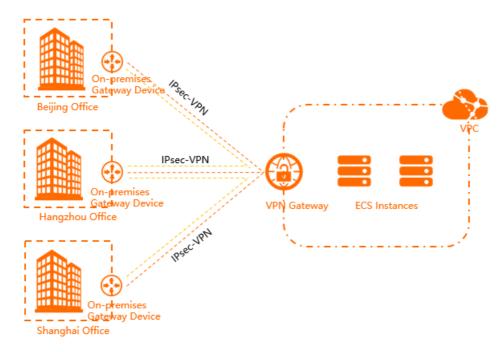
You can use SSL-VPN to connect a client to a VPC. This way, your client can securely connect to a VPC over the Internet regardless of time and location to meet your telecommuting requirements.

You can initiate an SSL-VPN connection from clients that run Windows, Linux, macOS, iOS, or Android. For more information, see Connect a client to a VPC.



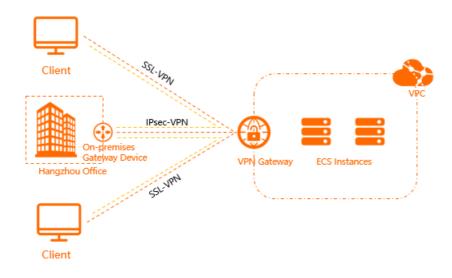
Connect multiple office networks

You can use IPsec-VPN to connect multiple office networks to a VPN gateway, and use the hub-spoke network topology to allow communication between the office networks. For more information, see Configure hub-spoke connections.



Connect a client to an office network

You can use IPsec-VPN together with SSL-VPN to connect a client and an office network to a VPC. This way, the client and the office network can access the VPC, and the client and the office network can communicate with each other.



3.Limits

This topic describes the limits on using VPN gateways. Before you use a VPN gateway, note the following limits.

Instance limits

ltem	Limit	Adjustable
Number of VPN gateways that can be created for each account	<text><text><text><list-item><list-item></list-item></list-item></text></text></text>	Go to the Quota Management page and request a quota increase. For more information, see Manage quotas.
Number of policy-based routes that can be created for each VPN gateway	20	
Number of destination-based routes that can be created for each VPN gateway	20	

Customer gateways

ltem	Limit	Adjustable
Number of customer gateways that can be created in a region	100	N/A

IPsec-VPN connections

ltem	Limit	Adjustable
Number of IPsec-VPN connections that can be created for each VPN gateway	10	Go to the Quota Management page and request a quota increase. For more information, see Manage quotas.
Maximum bandwidth that each IPsec-VPN connection supports	200M Tote If the maximum bandwidth of a VPN gateway is higher than 200 Mbit/s, you can create multiple IPsec-VPN connections to make full use of the bandwidth of the VPN gateway. For more information, see How to make full use of VPN Gateway bandwidth.	N/A
Number of source CIDR blocks that can be added to each IPsec- VPN connection	5	
Number of destination CIDR blocks that can be added to each IPsec-VPN connection	5	

SSL-VPN connections

ltem	Limit	Adjustable
Number of SSL client certificates that each account can reserve	50	Go to the Quota Management page and request a quota increase. For more information, see Manage quotas.

Product Overview Limits

ltem	Limit	Adjustable	
Number of SSL servers that can be associated with each VPN gateway	1		
Number of source CIDR blocks that can be added to each SSL server	5		
Number of destination CIDR blocks that can be added to each SSL server	1	N/A	
Ports that are not supported by SSL servers	22, 2222, 22222, 9000, 9001, 9002, 7505, 80, 443, 53, 68, 123, 4510, 4560, 500, and 4500		
Validity period of an SSL client certificate	Three years		