

Alibaba Cloud vpn gateway

Product Overview

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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.
	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 <code>cd /d C:/windows</code> command to enter the Windows system folder.
<i>Italics</i>	It is used for parameters and variables.	<code>bae log list --instanceid Instance_ID</code>
[] or [a b]	It indicates that it is a optional value, and only one item can be selected.	<code>ipconfig [-all -t]</code>
{ } or {a b}	It indicates that it is a required value, and only one item can be selected.	<code>swich {stand / slave}</code>

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1 VPN Gateway

Alibaba Cloud VPN Gateway is an internet-based service that connects enterprises' data centers and office networks with Alibaba Cloud VPCs in a secure and reliable manner through encrypted channels. The VPN Gateway provides the IPsec-VPN connection and the SSL-VPN connection.

**Note:**

Note: Alibaba Cloud VPN gateway provides services in accordance with the relevant national policies and regulations. It does not provide Internet access function.

Functions

The VPN Gateway provides IPSEC-VPN and SSL-VPN capabilities:

- IPsec-VPN

IPsec-VPN provides a VPN connection from the site to the site, you can connect a local data center with a private network using IPsec-VPN, or connect two vpcs. IPsec-VPN supports IKEv1 protocol and IKEv2 protocol. Any devices supporting the two protocols can connect to the VPN Gateway of Alibaba Cloud, such as Huawei, H3C, Hillstone, Sinfor, Cisco ASA, Juniper, SonicWall, Nokia, IBM, Ixia and so on.

详情参见 [#####](#)和[##VPC#VPC##](#)。

- SSL-VPN

You can use the SSL-VPN feature to remotely access applications and services deployed in a VPC from the client. When the deployment is complete, you only need to load the certificate in the client to initiate the connection.

详情参见 [Windows#####](#)、[Mac#####](#)和[Linux#####](#)。

Product Advantage

VPN gateways have the following advantages:

- Security: the transmission data is encrypted using Ike and IPSec protocol to ensure the security and reliability of the data.
- High Availability: the use of dual-machine thermal standby architecture, the failure of the second-level switching, to ensure that the session is not interrupted, business has no perception.

- Low Cost: it is cheaper to establish an encrypted channel based on the Internet than to build a dedicated line, and quickly build a hybrid cloud.
- Configuration is simple: provisioning is available, the configuration takes effect in real time, and the deployment is completed quickly.

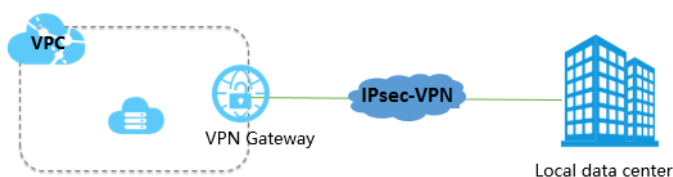
2 Scenarios

Site-to-site connections

You can build a hybrid cloud environment by creating an IPsec-VPN tunnel to connect a VPC to your local data center.

**Note:**

IPsec connections require that the IP address ranges of the local data center and the VPC do not conflict with each other. And a static, public IP is configured for the local gateway device.

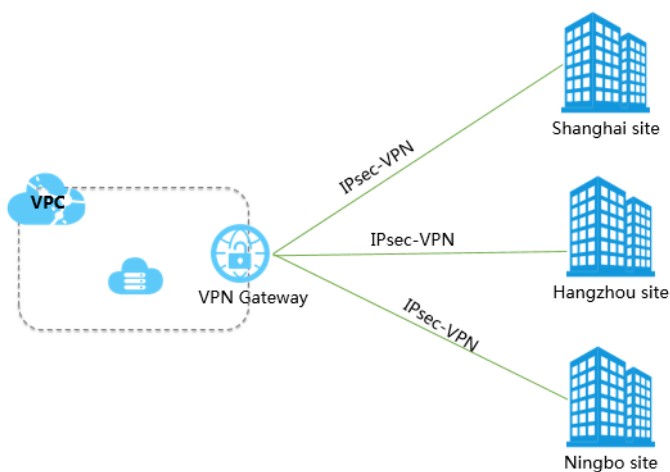


Multi-site connections

You can create multiple IPsec connections to connect multiple sites to a VPC. With the VPN-Hub function provided by VPN Gateway, each site not only communicates with the VPC, but can also communicate with each other. VPN-Hub meets the needs of large enterprises to establish an intranet communications between various sites.

**Note:**

IPsec connections require that the IP address ranges of each site cannot conflict with the IP address range of the VPC to be connected.

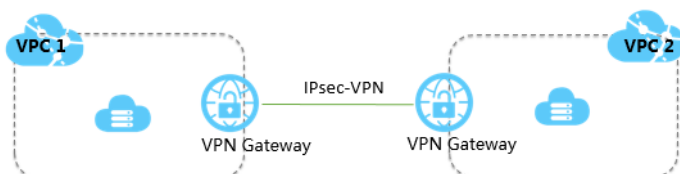


VPC-to-VPC connections

You can create a connection between two VPCs over an IPsec-VPN tunnel.

**Note:**

The IP address ranges of the VPCs cannot conflict with each other.



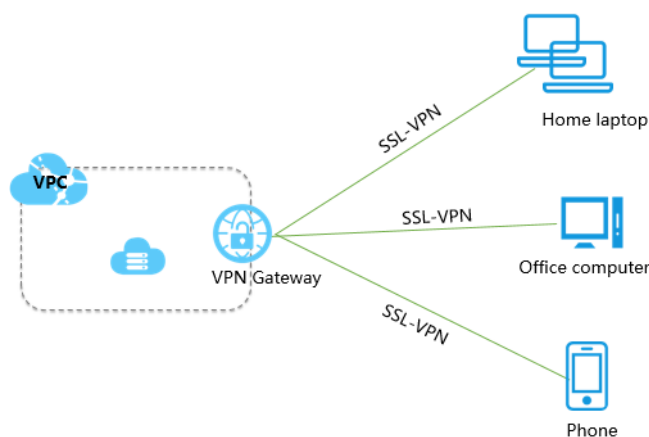
Point-to-site connections

You can connect a client to a VPC over the SSL-VPN tunnel to meet the needs of working remotely. With SSL-VPN connections, you can securely access applications deployed in a VPC wherever Internet access is available.

SSL-VPN connections support remote access from the clients of various operating systems, including Windows, Linux, Mac, IOS, and Android.

**Note:**

The IP address range of a client used to access a VPC cannot conflict with the IP address range of the VPC.

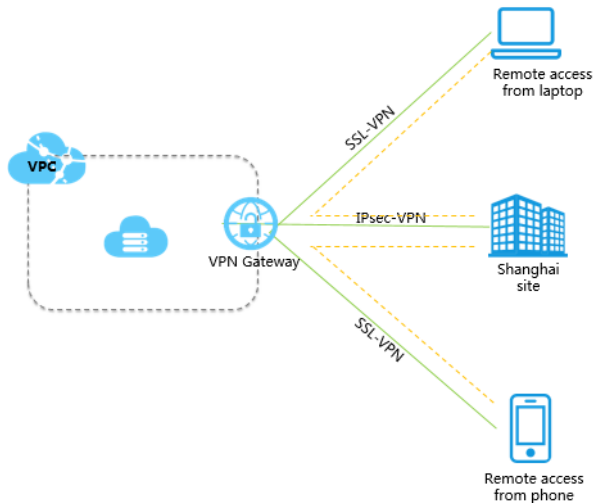


IPsec-VPN and SSL-VPN connections

You can combine the IPsec and SSL-VPN connections to expand your network topology. Once connections are established, the client can access the applications deployed in the connected VPC, and can also access the applications deployed in the connected office sites.

**Note:**

All private IP address ranges to be connected cannot conflict with one another.

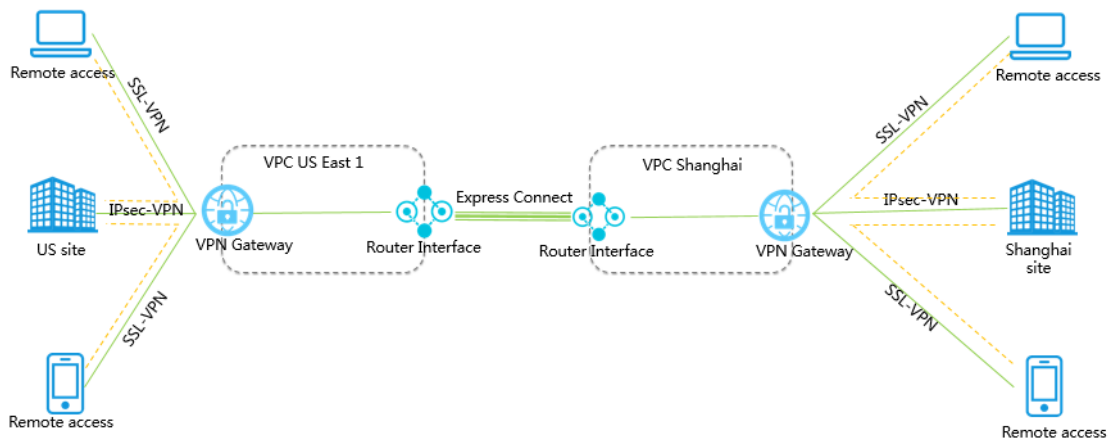


Multinational intranet connections (VPN Gateway and Express Connect)

Multinational enterprises can use Express Connect to connect two VPCs with low latency and use VPN Gateway to connect local sites at low cost to build secure and reliable intranet connections.

**Note:**

All private IP address ranges to be connected cannot conflict with one another.



3 Limits

Resource	Default limit	Exception
VPN gateways per account	30	Submit a ticket to increase the quota
Customer gateways in a region	30	No
IPsec connections per VPN gateway	10	No
Number of SSL servers per VPN gateway	1	No
SSL server port	The following ports are not allowed: 22, 2222, 22222, 9000 , 9001, 9002, 7505, 80, 443, 53, 68, 123, 4510, 4560, 500, 4500	No
Clients per SSL server	50	No
Maximum SSL client creations	100 times	No
Validity period per SSL client certificate	3 years	No