Alibaba Cloud Virtual Private Cloud

FAQ

Virtual Private Cloud FAQ / Legal disclaimer

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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.
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}

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1 VPC FAQs

1. What is the difference between the VPC and the classic network?

 The cloud products created in the classic network are uniformly deployed in the public network infrastructure of Alibaba Cloud. The classic network is managed by Alibaba Cloud, which is applicable for the users that have high demand on the usability.

VPC is an isolated private network that users create in Alibaba Cloud. Users have full control
over the VPC. Compared to the classic network, VPC is more applicable to the users with the
network management capability who want to control their private networks.

2. How many network interface cards does an ECS instance have?

The ECS instance created in the classic network has two NICs, one is the public NIC and the other one is the private NIC; while the VPC ECS instance only has one private NIC.

3. How many VRouters does a VPC have?

Each VPC has only one VRouter and each VRouter maintains one route table.

4. How many custom route entries does a route table have?

By default, you can add up to 48 custom route entries to a route table. If you want to add more, submit a ticket.

5. How many VSwitches can a VPC have?

A VPC can contain 24 VSwitches at most.

6. How many cloud product instances can a VPC contain?

A VPC can contain 15,000 cloud product instances at most.

7. How many cloud product instances can a VSwitch contain?

The number of the cloud product instances in a VSwitch depends on the current number of cloud product instances in the VPC, which is 15,000 minus the current amount of the cloud product instances in the VPC.

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2 CIDR FAQs

1. What is CIDR?

Classless Inter-Domain Routing (CIDR) Classless Inter-Domain Routing (CIDR) is a method for allocating IP addresses and IP routing. Compared to the traditional Class A, B, or C addresses, CIDR block is more efficient in the IP address allocation. For example, the IP 125.203.96.0 - 125. 203.127.255 in the CIDR form is:

125.203.0110 0000.0000 0000 to 125.203.0111 1111.1111 1111, or 203.96.0/19.

You have to specify the IP address range for the VPC and VSwitch in the form of a CIDR block when creating them.

2. How to specify the IP address range for a VPC?

You can use the standard private CIDR blocks (192.168.0.0/16, 172.16.0.0/12, 10.0.0.0/8) and their subsets as the IP address range of a VPC. When creating a VPC using the API, the allowed block size of the VPC CIDR block is between a /8 netmask and /24 netmask.

For more information, see *Manage a VPC*.

3. How to specify the IP address range for a VSwitch?

- The VSwitch CIDR block must belong to the corresponding VPC CIDR block. If the CIDR block
 of the VSwitch is the same as that of the VPC, you can only create one VSwitch.
- The allowed block size for a VSwitch is between a /16 netmask and /29 netmask, which can provide 8 to 65,536 IP addresses.
- The VSwitch CIDR block cannot be the same as an existing VSwitch CIDR block, and the two
 cannot be each other's subset.
- The CIDR block of the VSwitch cannot be the same as that of the destination CIDR block of an route entry in the VPC.
- The CIDR block of the VSwitch cannot contain the destination CIDR block of an route entry in the VPC, but can be the subset of the VPC CIDR block.

For more information, see *Manage VSwitches*.

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3 VPC FAQs

1. Can different VSwitches in a VPC communicate with one another?

As long as the security group rules permit, ECS instances in the same VPC can communicate with one another, no matter whether they are the same or not.

2. Can different VPCs communicate with one another through the Intranet?

Different VPCs are logically isolated from one another. You can use Express Connect, VPN Gateway and CEN instances to enable communication among the VPCs. For more information, see *How to choose a private connectivity product?*.

3. Does VPC support physical access?

VPC supports the access of local data centers through physical connection. For more information, see the document of Express Connect.

4. Does VPC provide the VPN function?

VPC provides the VPN function. For more information, see the document of VPN Gateway.

5. Can VPC access Internet services?

You can enable a VPC to access Internet services through the following methods:

- · Allocate a public IP
- · Bind an EIP
- · Configure a NAT Gateway

For more information, see *How to choose an Internet-facing product?*.

6. Can cloud services in a VPC be accessed from the Internet?

You can access cloud services in a VPC from the Internet through the following methods:

- · Allocate a public IP
- · Bind an EIP
- · Port mapping
- Configure an Internet SLB instance

For more information, see *How to choose an Internet-facing product?*.

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7. Can a VPC directly communicate with the classic network?

VPC can't directly communicate with the classic network. You can configure a public IP for the ECS instance in the VPC through the following methods to enable the ECS instance to communicate with cloud product instances in the classic network through the Internet.

For more information, see *How to choose an Internet-facing product?*.