

# Alibaba Cloud Dedicated Host

## Quick Start

Issue: 20190528

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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.	 <b>Danger:</b> 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.	 <b>Warning:</b> 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.	 <b>Notice:</b> 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.	 <b>Note:</b> You can use Ctrl + A to select all files.
>	Multi-level menu cascade.	Settings > Network > Set network type
<b>Bold</b>	It is used for buttons, menus, page names, and other UI elements.	Click OK.
<code>Courier</code> 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 an optional value, and only one item can be selected.	<code>ipconfig [-all -t]</code>

Style	Description	Example
<b><code>{}</code> or <code>{a b}</code></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 Create a DDH

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Learn how to create a DDH in the ECS console.

## Prerequisites

- [Sign up with Alibaba Cloud](#).
- [Add a payment method](#).

## Context

You can create a DDH in the ECS console.



### Note:

We are testing the beta Dedicated Host. You can [open a ticket](#) to apply for a trial.

## Procedure

1. Log on to the [ECS console](#).
2. In the left-side navigation pane, click Dedicated Hosts.
3. On the Dedicated Host list page, click Create Dedicated Host.
4. On the Create page, complete the following configurations:
  - a) Billing Method: Select Subscription.
  - b) Region: How to select a region, see [regions and zones](#).
  - c) Select a Dedicated Host Type, type a valid Dedicated Host Name, and specify the quantity. For more information, see [dedicated host types](#).



### Note:

When selecting a Dedicated Host type, consider the following:

- The selected Dedicated Host type determines the configurations of the ECS instances hosted on the DDH.
  - The ECS instances cannot be migrated across DDHs with local SSD disks.
- d) To create a Subscription DDH, select a Purchase cycle and determine whether to turn on the Auto renewal switch or not.
  - e) Confirm Dedicated Host Service Terms.
  - f) Confirm the costs.
  - g) Click Create Order.

5. On the Create Order dialog box, confirm the configurations and click OK.
6. To create a Subscription DDH, make payment to activate the service by following the prompts.

### Result

Go back to the Dedicated Hosts page to view the new DDH. It may take several minutes to create a DDH. Refresh the page if you cannot see it. The DDH is ready to use when it is in the Running status.

### What's next

#### Follow-up operations:

- [Create an ECS instance on a DDH.](#)
- [Migrate ECS from a shared cloud hosting server to a DDH.](#)

## 2 Create an ECS instance on a DDH

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You can create an ECS instance on a specified DDH, but only VPC-Connected ECS instances are supported.

### Prerequisites

Before you create an ECS instance on a specified DDH, complete the following:

- [Create a DDH](#).
- [Register by using your real name](#) if you want to create an ECS instance in a region inside mainland China.
- [Create a VPC and VSwitch](#) in the region where the DDH is located.
- If you do not want to use the default security group created by system, you must [create a security group](#) and [add security group rules](#). For more information, see [default security group rules](#).
- [Create an SSH key pair](#) for creating a Linux instance authenticated by using a key pair.
- Write the [user-defined data](#) for customizing the startup behaviors of an instance or passing in user-defined data.
- [Use the instance RAM role in the console](#).

### Context

You can create an ECS instance on a specified DDH. Only VPC-Connected ECS instances are supported. The functional differences between the ECS instance on a DDH and that on a shared cloud hosting server, see [comparing ECS features on different hosts](#).

### Procedure

1. Log on to the [ECS Console](#).
2. In the left-side navigation pane, click Dedicated Hosts.
3. Select a region.
4. Select a DDH and click Create Instance to start creating an ECS instance on the DDH.

**5. Follow these steps to complete Basic Configurations:**

- a) select a Dedicated Host: Use the selected DDH that is displayed by default.  
Alternatively, you can select another DDH.
- b) select a Billing Method: The billing method of an ECS instance is determined by the DDH.

On a Subscription DDH, both Subscription and Pay-As-You-Go ECS instances are supported.

- c) Confirm Region: The region and zone of the ECS instance is determined by the selected DDH.
- d) Select an ECS instance type and specify the instance quantity. The eligible ECS instance type is determined by the selected type and available resources of the DDH. For more information, see [dedicated host types](#).
- e) You can select a public image, custom image, shared image, or marketplace image.

**Note:**

- To use an SSH key pair, select a Linux OS image.
- To use user-defined data, select an image listed in User-defined data. For more information, see [use the instance RAM role in the console](#).

**f) Select Storage:**

- **System Disk: Required.** A system disk is required for the image. Specify the cloud disk category and size for the system disk:
  - **Cloud disk category:** You can select any cloud disk category in the selected region.
  - **Size:** The default size range is [40, 500] GiB. If the selected image is greater than 40 GiB, the default size range is [ImageSize, 500] GiB. The available size range varies according to the selected image, as shown in the following table.

Operating System	System disk capacity
Linux (excluding CoreOS) FreeBSD	[max{20, ImageSize}, 500] GiB
CoreOS	[max{30, ImageSize}, 500] GiB

Operating System	System disk capacity
Windows	[max{40, ImageSize}, 500] GiB

- **Data Disk: Optional.** To add data disks now, specify the category, size, and quantity of data disks, and encrypt the disks or not. You can create an empty data disk or create a data disk from a snapshot. Up to 16 data disks can be added.

**Note:**

The data disks added here have the following features:

- The data disks added here have the same billing method with that of the instance.
  - A Subscription data disk is released along with the instance, and a Pay-As-You-Go data disk can be set to be released along with the instance.
- If you have selected an instance type that has local disks, such as instance type of the i2 family, the local storage information is displayed. You cannot modify the quantity or category of local storage, which is determined by the selected instance type. For more information, see [instance type families](#).

6. Click **Next: Networking** to complete the networking and security group configuration:

- a. **Select Network:** Use the default VPC (Virtual Private Cloud). You must select a VPC and a VSwitch. If you do not have a VPC and a VSwitch, you can use the default ones.
- b. **Configure the Internet bandwidth:**
  - To assign a public IP address to the instance, select **Assign public IP**, select **PayByTraffic** and specify a bandwidth value. You cannot unbind the assigned public IP address from the instance. For more information about network billing, see [billing of network bandwidth](#).
  - To use elastic public IP (EIP) address for Internet access, do not select **Assign public IP**.
- c. **Select a security group:** All the rules must meet your business operation needs.

**Note:**

You can use the default security group and add rules by yourself. For more information, see [default security group rules](#).

- d. Add an elastic network interface. If your selected instance type supports elastic network interfaces, you can add one and specify a VSwitch for it.



**Note:**

By default, the elastic network interface is released along with the instance. You can use the ECS console or the [DetachNetworkInterface](#) interface to detach network interface from the instance

7. Optional: Click Next: System Configurations to complete the following configurations:

- Select and set Log on Credentials. You can set it now or select Set Later to set the credential after the instance is created. Select a credential based on the image:
  - Linux: You can select a password or SSH key pair as a logon credential.
  - Windows: You can only select a password as a logon credential.
- Specify the instance name, which is displayed in the ECS console, and the host name, which is displayed inside the guest operating system.
- Set Advanced configurations:
  - Instance RAM role: Assign a RAM role to the instance.
  - User-defined data: Customize the startup behaviors of an instance or pass data into an instance.

8. Optional: Click Next: Grouping.

If you have multiple instances, you can add tags to the instance to simplify future management.

9. Confirm the order:

- In the Configurations Selected area, confirm all the configurations. You can change configurations by clicking the Edit Configurations icon.
- To create a Pay-As-You-Go instance, you can set Auto Release Schedule
- To create a Subscription instance, you can specify the Purchase cycle and select Auto-Renew.



**Note:**

The expiration time of a Subscription ECS instance cannot be later than that of the selected DDH.

- Confirm Instance Cost. It is the sum of the cost of the system disk, the data disks (if any), and public traffic.
- Read and confirm the ECS Service Terms and Product Terms of Service.

10. Click Create Order.

## Result

After the instance is created, click ECS Console to go back to the ECS console to view the created ECS instance. In the Instance page, you can view the instance ID, the public IP address, and the private IP address of the new created instance. By setting the Set Display Items, you can view the Dedicated Host where the instance is hosted in the instance list.



### Note:

For more information about Set Display Items, see [migrate ECS instance across DDHs](#).

## What's next

- You can create an FTP site on the instance for transferring files. For more information, see [build an FTP site on a Windows ECS instance](#).
- To secure your instance after creation, we recommend that you perform security compliance inspection and configuration:
  - Linux instances: See [harden operating system security for Linux](#).
  - Windows instances: See [harden operating system security for Windows](#).
- If a data disk is created along with the instance, you must partition the disk and format the partitions. If the instance is based on a Linux OS, see [format a data disk for Linux instance](#). If the instance is based on a Windows OS, see [format a data disk for Windows instances](#).