Alibaba Cloud
Dedicated Host

FAQ

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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.	ⓘ Notice: 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  list --instanceid` *Instance_ID*
[] or [a|b]	It indicates that it is a optional value, and only one item can be selected.	`ipconfig` *[-all|-t]*

Style	Description	Example
{} or {a|b}	It indicates that it is a required value, and only one item can be selected.	`swich` *{stand | slave}*

Contents

1 FAQ about billing

Which billing methods do DDHs support?

> DDH supports the Subscription *Subscription* billing method. When you purchase DDH, you pay for the period of use, regardless of the resource use on DDH. For more information about the billing methods, see *pricing overview*.

Do I have to pay for the resources of an ECS instance when I create one on a DDH?

> When you create an ECS instance on a DDH, you do not have to pay additional fees for the compute resources of the instance, including vCPU and memory, and local disks. However, you must pay for other ECS resources, such as cloud disks, public network bandwidth, and chargeable images. For more information about the billing methods of ECS, see *pricing overview*.

What can I do when my DDH expires? or my account is overdue?

> When a Subscription DDH expires, you can renew it. For more information, see *Subscription*.

> When your account is in outstanding payment, *open a ticket* to clear the payment.

2 FAQ about DDHs

- *What is Dedicated Host (DDH)?*

- *What are the benefits of using DDH?*

- *In what scenarios do I use a DDH?*

- *Is a DDH a bare-metal server?*

- *What is the difference between DDHs and ECS Bare Metal Instances?*

- *How can I create a DDH?*

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- *Can I migrate an ECS instance from shared cloud hosting to a DDH?*

- *How can I use my own licenses on a DDH?*

- *Does a DDH have a unique identification code?*

- *Do different DDHs share one machine serial number?*

What is Dedicated Host (DDH)?

Dedicated Host, abbreviated to DDH, is a physical server provided by Alibaba Cloud. You can have a full control over the physical resources of the server. Resources are isolated on physical server level. You can create ECS instances on a DDH. For more information, see *what is a dedicated host*.

What are the benefits of using DDH?

DDH allows you to use existing software licenses, including Windows Server and Windows SQL Server. Subject to your license terms, you can bind your own software licenses to your ECS instances on a DDH, which brings down the cost of migrating your business to cloud. DDH facilitates higher flexibility, visibility, and controllability. All these features trigger your business to meet higher level regulatory compliance requirements. For more information, see *benefits*.

In what scenarios do I use a DDH?

For more information, see *scenarios*.

Is a DDH a bare-metal server?

No. ECS instances on DDHs have the same features with those on shared cloud hosting servers.

What is the difference between DDHs and ECS Bare Metal Instances?

A DDH is a cloud server with Alibaba Cloud hypervisor deployed. ECS Bare Metal (EBM) Instance is a new type of computing product that features both elasticity of virtual machines and performance and has characteristics of physical machines. As a product completely and independently developed by Alibaba Cloud, EBM instances are based on the next-generation virtualization technology. For more information about EBM instances, see *ECS Bare Metal Instance and Super Computing Clusters*.

How can I create a DDH?

Currently, you can create a DDH in the *ECS console*. For more information, see *create a DDH*. Pre-paid DDH is released automatically if there is no volume after a period of expiration. For more information, see *Subscription*.

How can I view the available resources on a DDH?

The Dedicated Host types article lists the total resources of each available DDH type, see *dedicated host types*. If you are using a DDH, log on to the *ECS console* to view the available resources on the DDH. For more information, see *view resources on a DDH*.

Can I migrate an ECS instance from shared cloud hosting to a DDH?

Yes. Log on to the *ECS console* and migrate an ECS instance from shared cloud hosting to one of your DDHs. The migration takes effect after you restart the ECS instance. You cannot migrate Subscription ECS instances or spot instances. For more information, see *migrate ECS from a shared cloud hosting server to a DDH*.

How can I use my own licenses on a DDH?

Follow these steps:

1. Verify that the license can be used on a dedicated host. Y You can check it with your license consultant. If it can be used on a dedicated host, go to step 2.

2. Import a custom image in the *ECS console* or by using the `ImportImage` interface. Alternatively, connect to the ECS instance and download the software. For detailed interface information, see *connect to an ECS instance*.

3. Start the ECS instances that are running the custom image. You may have to activate KMS service before you start the ECS instances. For more information about KMS, see *Key Management Service*

4. When using the Bring-Your-Own-License (BYOL) licenses, you may have to apply for permission. You can find all the physical attributes of the DDH in the ECS console, including the number of sockets, physical CPU cores, and virtual CPU cores.

Does a DDH have a unique identification code?

Yes. Each DDH has a unique machine serial number, not the host ID displayed in the ECS console. The number works as an asset ID of the physical server. You can use it to identify a DDH and record the DDH as an asset.

Do different DDHs share one machine serial number?

No. One machine serial number is assigned to one physical server. If you are assigned a new physical server because the earlier one is out of warranty, you will get a new machine serial number, which is the unique identifier of the new server.

3 FAQ about ECS instances on DDH

· *What is the difference between ECS instances on a DDH and on a shared cloud hosting server?*

· *Are there any limits to creating ECS instances on a DDH?*

· *Can any type of ECS instances be created on a DDH?*

· *Can ECS instances be created on a specified DDH?*

· *Can I migrate ECS instances between different DDHs?*

What is the difference between ECS instances on a DDH and on a shared cloud hosting server?

The only difference is that you cannot create classic network-connected ECS instances on DDHs. For more information, see *comparing ECS features on different hosts*.

Performance: basically the same. However, you have a full control over the physical resources of a DDH.

Are there any limits to creating ECS instances on a DDH?

You cannot create classic network-connected ECS instances on a DDH, and the billing method of ECS instances has dependencies on the corresponding DDH. For more information, see *limits*.

Can any type of ECS instances be created on a DDH?

Yes. You can create an ECS instance on a specified DDH in the ECS console or by using the CreateInstance interface of ECS. For example, you can only create ECS instances of sn1ne type family on a DDH of compute optimized type with enhanced network performance. For more information about DDH type, see *dedicated host types*.

Can ECS instances be created on a specified DDH?

Yes. You can create ECS instances on a specified DDH in the ECS Console. For more information, see *create an ECS instance on a DDH*.

Can I migrate ECS instances between different DDHs?

Yes. You can migrate ECS instances between DDHs of the same type, except DDHs with local disks. For more information, see *migrate ECS instances across DDHs*.

4 Automatic instance migration upon DDH failure

A DDH is a physical server. It may shut down when a physical failure occurs. To prevent these failures from affecting your businesses, Alibaba Cloud supports automatic instance migration upon DDH failure.

> ⚠️ **Warning:**
> You must use this function with caution because the migration deletes the data stored in local disks.

You can use the following methods to enable the automatic instance migration function. With this function enabled, when a DDH fails, the ECS instance running on the DDH will automatically migrate to another DDH.

· Enable automatic instance migration when you create a DDH:

 Select Automatic Instance Migration upon DDH Failure under DDH Settings.

· Enable automatic instance migration after you create a DDH:

 1. Choose Actions > Edit DDH Info.
 2. Click the Action on Maintenance switch.

> 📋 **Note:**
> A DDH configured with local disks, such as the local SSD i2 type, does not support the automatic instance migration function.

If the automatic instance migration function is disabled and your DDH fails, you must *submit a ticket* to apply for a new DDH.

After the instance is migrated, the DDH ID and the metadata of the ECS instance remain unchanged. The metadata includes the ID, internal network IP address, and public network IP address of the ECS instance. The machine ID of the DDH is updated .