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FAQ

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Document conventions

Style	Description	Example
⚠ 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.
🔔 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.
🔊 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.
? 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 list --instanceid` *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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What is DDH?

Alibaba Cloud DDH is a single-tenant hosting service. The physical resources of a dedicated host are used by only one tenant. Dedicated hosts of different tenants are isolated at the physical server level. You can create Elastic Compute Service (ECS) instances on a dedicated host. For more information, see What is DDH?

What are the benefits of DDH?

You can bind an existing software license to an ECS instance created on a dedicated host. The ECS instance can be a Microsoft Windows Server instance or Microsoft Windows SQL Server instance. This reduces the cost of migrating your business to the cloud. DDH provides flexibility, visibility, and control when you deploy your applications. This ensures that your applications meet strict compliance and regulatory requirements. For more information, see Benefits.

What scenarios does DDH apply to?

For information about the applicable scenarios of DDH, see Scenarios.

Is DDH a bare metal service?

No, DDH is not a bare metal service. DDH provides various types of dedicated hosts. The type of a dedicated host determines the type and number of ECS instances that you can create on the dedicated host. For more information, see Dedicated host types.

What is the difference between a dedicated host and an ECS Bare Metal Instance (EBM)?

A dedicated host is a cloud server that is created based on the virtualization technology. EBM is a computing service that combines the elasticity of virtual machines and the features and performance of physical machines. EBM was developed by Alibaba Cloud based on the state-of-the-art virtualization 2.0 technology. For more information, see Overview.

How can I create and release a dedicated host?

You can use the ECS console to create a dedicated host. For more information, see Create a dedicated host.

If a subscription dedicated host expires and is not renewed within a required period, the dedicated host is automatically released. For more information, see Subscription.

How can I check the available resources of a dedicated host?

You can check the total resources and available resources of a dedicated host.

- For information about the total resources provided by different types of dedicated hosts, see Dedicated host types.
- To check the available resources of running dedicated hosts, log on to the ECS console. For more information, see View the information of a dedicated host.

Can I migrate ECS instances from a shared host to a dedicated host?

Yes. You can migrate ECS instances from a shared host to a dedicated host if both hosts belong to the same account. You can log on to the ECS console to migrate the ECS instances. After you restart the ECS instances, the instances are deployed on the destination dedicated host. However, you cannot migrate subscription ECS instances or preemptible instances. For more information, see 将ECS实例从共享宿主机迁移到DDH.

How can I use bring your own licenses (BYOLs) on a dedicated host?

To use BYOLs on a dedicated host, perform the following steps:

1. Check the terms and conditions of your BYOLs to confirm that you can use the licenses on a dedicated host. We recommend that you consult a licensing advisor to better understand the licensing requirements. After you confirm that you can use the license on a dedicated host, proceed to Step 2.

2. Use the ECS console or call the ImportImage operation to import custom images. You can also download the software after you establish a remote connection to an ECS instance. For more information, see Connect to an ECS instance.

3. Log on to your dedicated host and start the ECS instance that uses these images. When you run the instance, you may need to use Key Management Service (KMS) to activate the instance or software. For more information, see What is Key Management Service?

4. When you use BYOLs on a dedicated host, you may need to submit an audit table to your license provider. The DDH parameters such as the number of sockets, number of physical CPU cores, and number of vCPUs are required in the table. You can view these parameters in the ECS console.

Does a dedicated host have a unique ID?

Yes. Each dedicated host has a machine code. This code is similar to the asset ID of a physical server, but not the host ID. You can use this machine code to identify a dedicated host. A dedicated host assigned to your account has a machine code that corresponds to a physical server. This ensures easy filing of your assets.

Does Alibaba Cloud use the same machine code on different dedicated hosts?

No, Alibaba Cloud does not use the same machine code on different dedicated hosts. Each machine code corresponds to only one physical server. If you are assigned a new physical server due to warranty expiration or migration, a new machine code is assigned to your dedicated host.

Will the instances on a dedicated host be automatically migrated to another dedicated host in the event of a failure?

Alibaba Cloud DDH supports automatic failover. If you enable the feature, the instances are automatically migrated to another dedicated host if the current host fails. For more information, see Modify the settings of automatic instance migration for a dedicated host.

How do I select disks and public bandwidth when I purchase a dedicated host?

You do not need to select disks or public bandwidth when you create a dedicated host. You must select disks and public bandwidth when you create an ECS instance on the dedicated host. For more information, see 在DDH上创建ECS实例.

What can I do if packets are lost during User Datagram Protocol (UDP) communication?

If UDP communication is implemented between various ECS instances on a host, the checksum value obtained on the send side may be wrong. UDP drops packets on the receive side if it detects inconsistent checksum values.

You can run the `ethtool -k ethx tx off` command to disable the checksum offload feature for the gateway on the send-side ECS instance.

> ? **Note** ethx indicates the gateway used during the UDP communication between ECS instances. Specify the value based on your needs, for example, eth0.

2.FAQ about ECS instances on a dedicated host

This topic provides answers to frequently asked questions (FAQ) about Elastic Compute Service (ECS) instances that are created on a dedicated host.

- What are the differences between ECS instances created on a dedicated host and ECS instances created on a shared host?
- What are the limits on the ECS instances created on a dedicated host?
- Can I create different types of ECS instances on a dedicated host?
- Can I create an ECS instance on a specified dedicated host?
- Can I migrate ECS instances between different dedicated hosts?
- Can I adjust the specifications of ECS instances on a dedicated host?

What are the differences between ECS instances created on a dedicated host and ECS instances created on a shared host?

ECS instances created on a dedicated host and ECS instances created on a shared host differ in the following ways:

- Feature: ECS instances connected over a classic network cannot be created on a dedicated host. For information other differences in features, see Differences between ECS instances on a dedicated host and those on a shared host.
- Performance: They have similar performance except that the physical server on which the dedicated host is deployed is exclusive to you.

What are the limits on the ECS instances created on a dedicated host?

ECS instances connected over a classic network cannot be created on a dedicated host. The billing method of a dedicated host limits the ECS instance types that you can create. For more information, see Limits.

Can I create different types of ECS instances on a dedicated host?

Yes. If the dedicated host has sufficient resources, you can create ECS instances of the types that match the dedicated host type. For example, you can create ECS instances of the g6t instance family on a Security-enhanced general type g6t dedicated host. However, you cannot create ECS instances of other instance families. For more information, see Dedicated host types.

Can I create an ECS instance on a specified dedicated host?

Yes. You can create an ECS instance on a specified dedicated host in the ECS console. For more information, see 在DDH上创建ECS实例.

Can I migrate ECS instances between different dedicated hosts?

Yes. You can migrate ECS instances between dedicated hosts of the same type, except for dedicated hosts that have local SSD disks attached. For more information, see 在DDH之间迁移ECS实例（DDH列表页）.

Can I adjust the specifications of ECS instances on a dedicated host?

Yes. If the specifications of ECS instances are no longer suitable for your business, you can adjust the specifications or modify the public bandwidth. For more information, see Upgrade or downgrade a subscription ECS instance.

3.Billing FAQ

This topic provides answers to some commonly asked questions about the billing methods of Dedicated Host (DDH).

Which billing methods does DDH support?

DDH supports the Subscription billing method. When you purchase a dedicated host, you are charged for the duration of use, regardless of the resource usage on the dedicated host. For more information, see Billing overview.

Do I need to pay for the ECS instances that run on a dedicated host?

When you create Elastic Compute Service (ECS) instances on a dedicated host, you are not charged for the vCPU and memory of the instance. However, you are charged for the disks, internet bandwidth, images, and snapshots of the instance. For more information about the billing methods of ECS instances, see Billing overview.

What do I do when my dedicated host expires or my Alibaba Cloud account has an insufficient balance?

If you want to use an expired dedicated host, you must renew it. Otherwise, the dedicated host and the ECS instances on it will be automatically stopped. For more information, see Subscription.

If the account is suspended, you must submit a ticket to add funds to your account.