Dedicated Host

FAQs

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1 DeH FAQs

1.1 What Is DeH?

Dedicated Host (DeH) provides dedicated physical hosts to ensure isolation, security, and performance for your ECSs. You can bring your own license (BYOL) to DeH to reduce the costs on software licenses and facilitate the independent management of ECSs.

1.2 When a DeH Is Needed?

When your services are required to meet high compliance, security, or performance requirements, you can purchase DeHs. For more information For more information, see **Application Scenarios**.

1.3 Can DeHs Be Used to Build Websites?

ECSs or ECSs created on DeHs can be used to build websites.

1.4 Can I Purchase DeHs by Myself?

Yes. You can purchase DeHs on the management console. For more information, see **Buying DeHs**.

1.5 What Hypervisor Is Used by DeH?

DeHs use KVM. Only KVM ECSs can be deployed on the DeHs.

1.6 Does Each DeH Have a Unique ID?

Yes. Each DeH has a unique ID.

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1.7 What Are the Differences Between DeHs and BMSs?

DeH uses the virtualization system. After purchasing a DeH, you can use the ECS public image to provision ECSs.

BMS uses the bare metal architecture and does not use the virtualization platform. You need to install virtualization software before creating an ECS on a BMS.

Table 1-1 Differences between DeHs and BMSs

Item	DeH	BMS
Virtualization provided	Yes	No
Usage	Provisioning of multiple ECSs on a DeH	Using a BMS as an entire server or installing virtualization software on a BMS
Supported specifications	Specifications of physical servers running DeHs and supported ECS specifications	Only BMS specifications
Supported images	ECS images	Only BMS images

1.8 What Are the Differences Between DeH and DeC?

- Scenario

  DeC can provide a complete resource isolation solution by using dedicated services, such as Dedicated Distributed Storage Service (DSS) Dedicated Enterprise Storage Service (DESS), and Bare Metal Server (BMS).

  DeH can provide only isolated compute hosts, which are more flexible and suitable for customers who have requirements for computing resource isolation and flexibility.

- Function

  You need to apply for an independent DeC account before requesting DeC resources. DeC resources and public ECSs belong to different VPCs. Common ECSs cannot be migrated to a DeC, and ECSs in a DeC cannot be migrated to common resource pools.

  ECSs created on a DeH and ECSs in the public resource pool share the same VPC. So, stopped ECSs can be migrated between a DeH and a resource pool.

1.9 What Are the Differences Between DeHs and ECSs?

DeHs are dedicated physical servers where the virtualization environment is deployed and allows you to exclusively use physical servers. Your DeHs are

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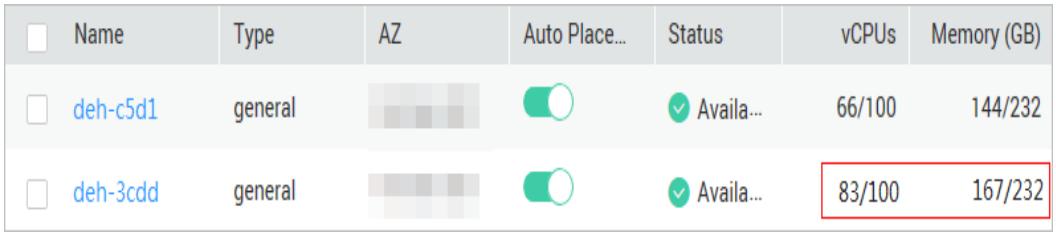
physically isolated from servers of other users. After allocating a DeH, you can create ECSs on the DeH as well as plan physical server resources.

Common ECSs allow multiple users to share physical server resources.

1.10 How Can I Query the Number of Available Resources on a DeH?

You can view the total resources and available resources of each DeH on the DeH console. Use DeH **deh-3cdd** in the following figure as an example. The total number of vCPUs is 100, and the number of available vCPUs is 83. The total memory is 232 GB, and the available memory is 167 GB.

Figure 1-1 Querying available resources of a DeH



1.11 Does DeH Support Capacity Expansion?

No. The hardware configuration of DeHs is planned based on the specifications and quantity of ECSs to be provisioned. You can buy more DeHs based on your service requirements.

1.12 What Is BYOL?

If you have a licensed OS or software (licensed based on the number of physical sockets or the number of physical cores), you can bring your own license and migrate your services to the cloud platform.

1.13 How Can I Use the BYOL Mode on a DeH?

Perform the following steps:

1. Check whether the license terms and conditions allow you to use the software license on DeHs. Contact HUAWEI CLOUD license experts to confirm whether your existing license can be used on the DeHs. If yes, go to the next step.
2. Submit a review form to your software license provider. You can obtain the values of DeH parameters, such as vCPUs, memory size, sockets, and physical cores, form on the DeH console.

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2 ECS FAQs

2.1 What Are the Differences Between ECSs on DeHs and ECSs on Shared Hosts?

ECSs on DeHs provide better computing performance and stability than the ECSs on shared hosts because resources are exclusively used by the ECSs on DeHs.

2.2 What Are the Restrictions on Creating ECSs on a DeH?

The ECS flavors are determined by the DeH type. For more information, see **Overview**.

2.3 Can I Create ECSs of Different Flavors on a DeH?

Yes. You can create ECSs of different type and flavors on a DeH. For example, you can create S3 ECSs on an s3_pro DeH. S3 includes a series of flavors, such as s3.medium.4 and s3.large.4.

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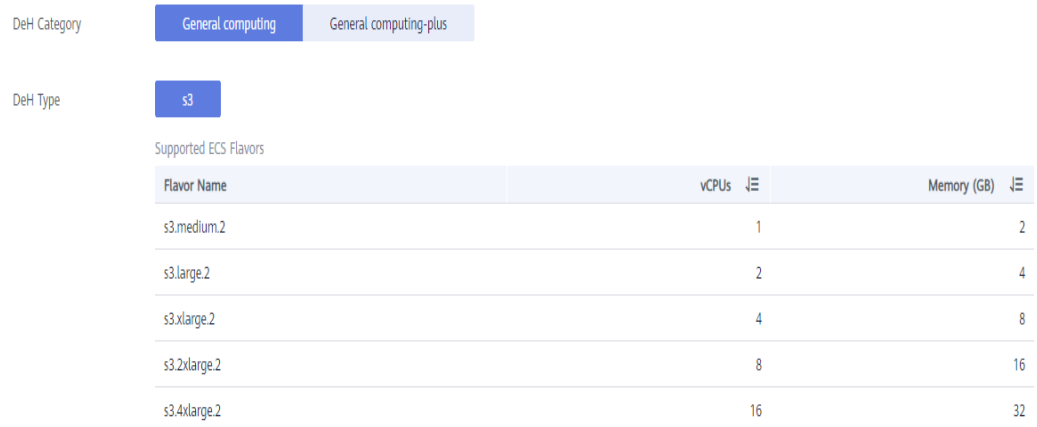
Figure 2-1 ECS flavors allowed on DeH



2.4 Can I Modify Specifications of ECSs on DeHs?

Yes. You can modify specifications of the ECSs on DeHs by performing the operations described in **Modifying Specifications of ECSs on DeHs**.

2.5 What Should I Do If I Fail to Create an ECS on a DeH?

The following may cause the failure in creating an ECS on a DeH:

- The ECS flavor you selected is not supported by your DeH.

  For the ECS flavors supported by each DeH type, see **Overview**.
- Your DeH resources are insufficient, resulting in failure in creating an ECS with the specifications you selected.

  You can check whether the remaining vCPU resources and memory size of your DeH are sufficient for creating an ECS with the specifications you selected. If the resources are insufficient, you need to apply for more DeH resources or delete some ECSs from your DeH.

2.6 Can I Migrate ECSs in Resource Pools to DeHs?

Yes. You can migrate your ECSs between DeHs and public resource pools or between DeHs.

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3 Billing FAQs

3.1 Do I Need to Pay for ECSs Deployed on My DeHs?

No fees are needed for ECSs on your DeHs. However, if your ECSs have EVS disks attached or EIPs bound, you need to pay for the EVS disks and EIPs you used.

For details about charging, see **Billing**.

3.2 Can I Purchase DeHs on a Pay-per-Use Basis?

No. Currently, only yearly/monthly DeHs are available.

3.3 What Should I Do When My DeHs Expire? What Should I Do If My Account Is in Arrears?

If you want to continue using your yearly/monthly DeHs, you need to renew them. If a DeH is not renewed after it expires, the DeH is automatically disabled and ECSs on the DeH are automatically stopped.

Follow the instructions described in **Topping Up an Account** to top up your account.

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