Dedicated Computing Cluster

FAQs

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HUAWEI CLOUD COMPUTING TECHNOLOGIES CO., LTD.

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1 What Is DCC?

Dedicated Computing Cluster (DCC) provides dedicated, physically isolated computing resource pools on the cloud service platform, allowing you to use physical computing devices and resources exclusively.

You can apply for a host machine in your resource pool to host your own Elastic Cloud Servers (ECSs).

DCCs must be used in DeCs. So, you need to apply for a DeC before using your DCCs. Then you can centrally manage your DCCs in the DeC.

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2 How Is a DCC Billed?

DCCs are available only after you have applied for a DeC.

After enabling a DCC, you can purchase computing resources on a yearly/monthly basis. The billing mode cannot be changed.

After you purchase a DCC, computing resources required by services in your DeC are provided by the DCC. So, you will not be charged for additional fees for computing resources. However, you need to pay the fees for the network resources you used.

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3 What Steps Will Be Taken by Huawei Cloud to Handle a Server Fault in a DCC?

DCC provides dedicated, physically isolated computing resource pools on the cloud service platform, allowing you to use physical computing devices and resources exclusively. The physical servers automatically stop when a fault occurs. To minimize the impacts, automatic ECS migration is supported when the resources in the purchased DCC are redundant.

NOTE

Servers with local disks do not support automatic migration upon system breakdown. Automatic ECS migration can be performed only when the computing resources are redundant.

After a fault occurs, the faulty physical server will be replaced with a normal one. The ID, private IP address, and EIP of the ECS remain unchanged.

NOTE

Physical servers cannot be replaced when cabinets are isolated. After the fault occurs, the hardware will be repaired.

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4 How Do I Select a Region and AZ?

Selecting a Region

If your target users are in Europe, select the **EU-Dublin** region.

Selecting an AZ

When deploying resources, consider your applications' requirements on disaster recovery (DR) and network latency.

- For high DR capability, deploy resources in different AZs within the same region.
- For lower network latency, deploy resources in the same AZ.

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5 How Is the Memory Allocation Rate in a DCC Computing Resource Pool Calculated?

In the **Resource Usage Details** area, **Memory Allocation Rate** indicates the memory usage of the system, including partial management memory of the system. Indicators are calculated as follows:

- **Total**: specifies the total physical memory capacity of all physical servers in a DeC. The total memory capacity is the memory allocated to the DeC physical servers minus the management memory capacity of the physical servers. The management memory capacity of a physical server includes the memory required by Xen and Kdump for managing ECSs. The management memory cannot be used as the memory for the OS of ECSs. The management memory size occupies about 2% to 3% of the available physical memory allocated to you.
- **Allocated**: specifies the memory capacity that has been used, that is, the total memory capacity consumed by the ECSs on the available physical memory that has been allocated to the users. The used memory includes the available memory (that is, the memory size defined by the ECS flavor) of ECSs and the available memory of the DeC physical server that needs to be consumed to manage these ECSs. The available memory of the DeC physical server required for managing an ECS usually occupies about 1% to 2% of the memory size defined by the ECS flavor. The memory for managing the ECS cannot be used by the ECS.
- **Idle**: specifies the unused memory capacity. The value of **Idle** equals the available memory capacity minus the allocated memory capacity.

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6 FAQs About ECSs

- **How Do I Determine the Number of ECSs Required?**

  You can summarize the compute resources (such as CPUs and memory) occupied by your application software and estimate the number of required ECSs based on the compute resources provided by each ECS.

- **Can I Exclusively Use the Resources of ECSs?**

  Yes.

  The compute resources provided on the public cloud are exclusive for your own use. And the resource will not be shared with other users.

- **Can ECSs in a Shared Resource Pool Be Added to a DCC?**

  No.

- **Can I Use the Hard Disks on Physical Servers as My Storage Resources?**

  No. You can only use the compute resources provided by physical servers. Specifically, the hard disks on the servers cannot be used as your storage resources.

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7 What Are the Characteristics of ECSs in a DeC?

In a DeC, you can purchase only pay-per-use ECSs.

As to the ECSs purchased in a DeC, you do not need to pay for compute resources because ECSs in the DeC use the remaining compute resources on physical servers you have purchased.

If the compute resources are insufficient, you cannot buy any ECSs. You can create ECSs only after expanding the capacity of your DCC.

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8 How Is an ECS in a DeC Billed?

You can buy pay-per-use ECSs in a DeC using the remaining computing resources on the physical servers you have bought. No additional fees are charged for the computing resources.

However, you will pay for the EVS disks and EIPs you used on the ECSs.

When you buy pay-per-use ECSs, the price of the EVS disks and EIPs is higher than that of yearly/monthly ECSs. If you plan to use ECSs for a long period of time, it is recommended that you buy EVS disks and EIPs on a yearly/monthly basis, and then attach the EVS disks and bind the EIPs to your pay-per-use ECSs.

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9 How Do I Unsubscribe from DCC Resources?

A yearly/monthly ECS can be unsubscribed, including the renewed resources and the resources that are being used. After the unsubscription, the ECS can no longer be used. A handling fee will be charged for unsubscribing from a resource.

Notes

- Unsubscribing from an ECS involves the renewed resources and the resources that are being used. After the unsubscription, the ECS is unavailable.
- Solution product portfolios can only be unsubscribed from as a whole.
- If an order contains resources in a primary-secondary relationship, you need to unsubscribe from the resources separately.
- For details about how to unsubscribe from a resource, see **Unsubscription Rules**.

Procedure

NOTICE

Before requesting an unsubscription, ensure that you have migrated or backed up any data saved on the ECS that will be unsubscribed from. After the unsubscription is complete, the ECS and any data it contains will be permanently deleted.

1. Go to the **Unsubscriptions** page.
2. Click the **Unsubscribe from In-Use Resources** tab.
3. Unsubscribe from a single resource or from resources in a batch.
   - To unsubscribe from a single resource, click **Unsubscribe** for the target resource.
   - To unsubscribe from resources in a batch, select the target resources from the resource list and click **Batch Unsubscribe** in the upper part of the resource list.

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4. View the unsubscription information, select **I have confirmed that a handling fee will be charged for this unsubscription**, and click **Unsubscribe**.

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