Hyper Computing Cluster

Billing

Product Documentation

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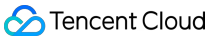

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Last updated：2026-02-04 10:44:08

Billing Instructions

Hyper Computing Cluster instances offer four purchase options: yearly/monthly subscription, pay-as-you-go, spot instances, and underwriting, each suitable for different user needs in various scenarios. For details, see CVM billing modes.

Instance Price

The price of Hyper Computing Cluster instances involves network, storage (system and data disks), and compute (CPU, memory, and GPU) resources. You can directly use the price calculator for CVM instances to calculate the price and estimate resource costs. You can add the required products to the purchase list and purchase them with one click.

Renewal

Subscription Hyper Computing Cluster instances cannot be terminated manually. After expiration, they will be retained for seven calendar days and then automatically terminated by the system.
An instance will be shut down on the day it expires and automatically moved to the recycle bin. It is retained for seven calendar days. You can choose to renew it during this period. If you do not renew it within seven calendar days, it will be terminated.
You can set auto renewal during purchase.

> **Note:**
> It is recommended to renew instances before they expire to prevent service interruption due to shutdown upon expiration. For more information on renewal, refer to Renewing Instances.

Recycling

Recycling policies for Hyper Computing Cluster instances under different billing modes are as follows:

Instance Billing Mode	Yearly/Monthly Subscription	Pay-as-You-Go

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Recycling Mechanism	• Manually terminating an instance will move it to the recycle bin. • If an instance is automatically terminated due to expiration without renewal or account arrears causing renewal failure, **service suspension will be processed within one day.** The instance will then enter the recycle bin.	• Manually terminating an instance will move it to the recycle bin, **and it will be automatically released after 2 hours.** • After automatic termination due to account arrears, **the instance will be automatically shut down after 2 hours** and fee deduction stops. The instance will then enter the recycle bin.
Retention Period	**7 days**	**15 days**
Expiration Handling	**After the retention period expires**, the following resources will be released automatically: • General public IP addresses • Hyper Computing Cluster instances • Non-elastic cloud disk and data **Warning:** • For the impact of overdue payments of the account on elastic cloud disks and EIP instances, see CBS Overdue Payments and EIP Overdue Payments. • Once CPU, memory, GPU, and cloud disk data are released, the data will be irretrievably lost. You can back up data in advance by creating snapshots or creating custom images.	
Operation Limits	You can only perform the following operations for instances in the recycle bin: reclaiming/restoring an instance, terminating/returning instances and creating images (except for special instance types).	

Payment Overdue

Hyper Computing Cluster instances enter the recycle bin when they expire and are not renewed or when the account is overdue and not recharged. Description:

Instance Billing Mode	**Yearly/Monthly Subscription**	**Pay-as-You-Go**
Handling of Overdue	If your Hyper Computing Cluster instance is not renewed before expiration	From the moment your account balance becomes negative, the Hyper Computing

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Payments	(including the expiration date), the system will suspend its service within **1 day** after expiration (isolating the device without shutting it down and retaining data), and the instance will enter the recycle bin.	Cluster instance can continue to be used and billed **within 2 hours. After 2 hours, the instance will be automatically shut down** and billing will stop, with the instance entering the recycle bin.
Retention Period	Enter the recycle bin **7 days**	Enter the recycle bin **15 days**
Retention Period	During the retention period, you can still renew and recover the instances in the recycle bin. **Note:** **The start time of the renewal period for renewed instances is set to the expiration date of the previous period.**	During the retention period, you can top up your account balance to a value greater than 0. At this time, billing will continue, and you can start the instance.
Expiration Handling	**After the retention period expires**, the following resources will be released automatically: • General public IP addresses • Hyper Computing Cluster instances • Non-elastic cloud disk and data **Warning:** • For the impact of overdue payments of the account on elastic cloud disks and EIP instances, see CBS Overdue Payments and EIP Overdue Payments. • Once CPU, memory, GPU, and cloud disk data are released, the data will be irretrievably lost. You can back up data in advance by creating snapshots or creating custom images.	
Operation Limits	You can only perform the following operations for instances in the recycle bin: reclaiming/restoring an instance, terminating/returning instances and creating images (except for special instance types).	

Refund Instructions

The refunding rules of Hyper Computing Cluster instances are the same as those of CVM instances.

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Note

The prices shown above are standard prices, which may change due to price reductions and other factors. The actual prices on the purchase page shall prevail.
Hyper Computing Cluster instances do not support the policy of no charges when shutdown for pay-as-you-go instances. For details, see No Charges When Shutdown for Pay-as-You-Go Instances.

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Instance Regions

Last updated：2024-08-06 14:54:32

Hyper Computing Cluster instances are available in the following regions:

Instance Family	Type	Instance Model	GPU Model	Region
Hyper Computing Cluster	GPU	HCCPNV5	NVIDIA H800	Shanghai
		HCCPNV5v	NVIDIA H800	Beijing, Shanghai, and Nanjing
		HCCPNV4sne	NVIDIA A800	Shanghai
		HCCPNV4sn	NVIDIA A800	Guangzhou
		HCCPNV4h	NVIDIA A100	Beijing and Shanghai
		HCCG5vm	NVIDIA V100	Shanghai
		HCCG5v	NVIDIA V100	Shanghai
	Standard	HCCS5	–	Shanghai, Chongqing
	Compute	HCCIC5	–	Shanghai, Chongqing

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Purchasing Hyper Computing Cluster Instances

Last updated：2026-02-04 10:45:04

Hyper Computing Cluster takes high-performance CVMs as nodes and interconnects with RDMA (Remote Direct Memory Access), providing high bandwidth and ultra-low latency network services, significantly improving network performance, and meeting the parallel computing requirements of large-scale high-performance computing, artificial intelligence, big data recommendation, and other applications.

Purchase Must-Know

- Hyper Computing Cluster instances share the same purchase page and console as CVMs. You can go to the CVM purchase page to purchase on demand. To learn more about configuration details, see Purchase Linux CVM via Custom Configuration.
- Before purchasing Tencent Cloud Hyper Computing Cluster instances, please ensure you have understood Hyper Computing Cluster, Instance Specification and Billing Modes.
- Ensure you understand the region where the selected Hyper computing instance is located. For information on available regions, please see Available Regions.

Purchase Steps

This article takes the **GPU HCCPNV5v** as an example to guide you in quickly purchasing a Hyper Computing Cluster instance.

Step 1: Create a Hyper Computing Cluster.

> **Note:**
> - If you have not purchased a Hyper Computing Cluster, please see this step to create a Hyper Computing Cluster. If you already have Hyper Computing instances, please choose whether to create as needed.
> - Instances within the same cluster are interconnected with the RDMA network, while instances across clusters are isolated.

1. Log in to the CVM console, and choose **HPC Cluster > Cluster Resources** in the left sidebar.
2. On the **HPC Cluster** page, select the target region at the top and click **Create**. This article takes **Shanghai** as an example. For available regions of **GPU type HCCPNV5v** instances, see Available Regions.
3. In the **Create Cluster** window, configure **AZ**, **Cluster Name**, **Cluster Description**, and **Tags** as needed, as shown in the following figure:

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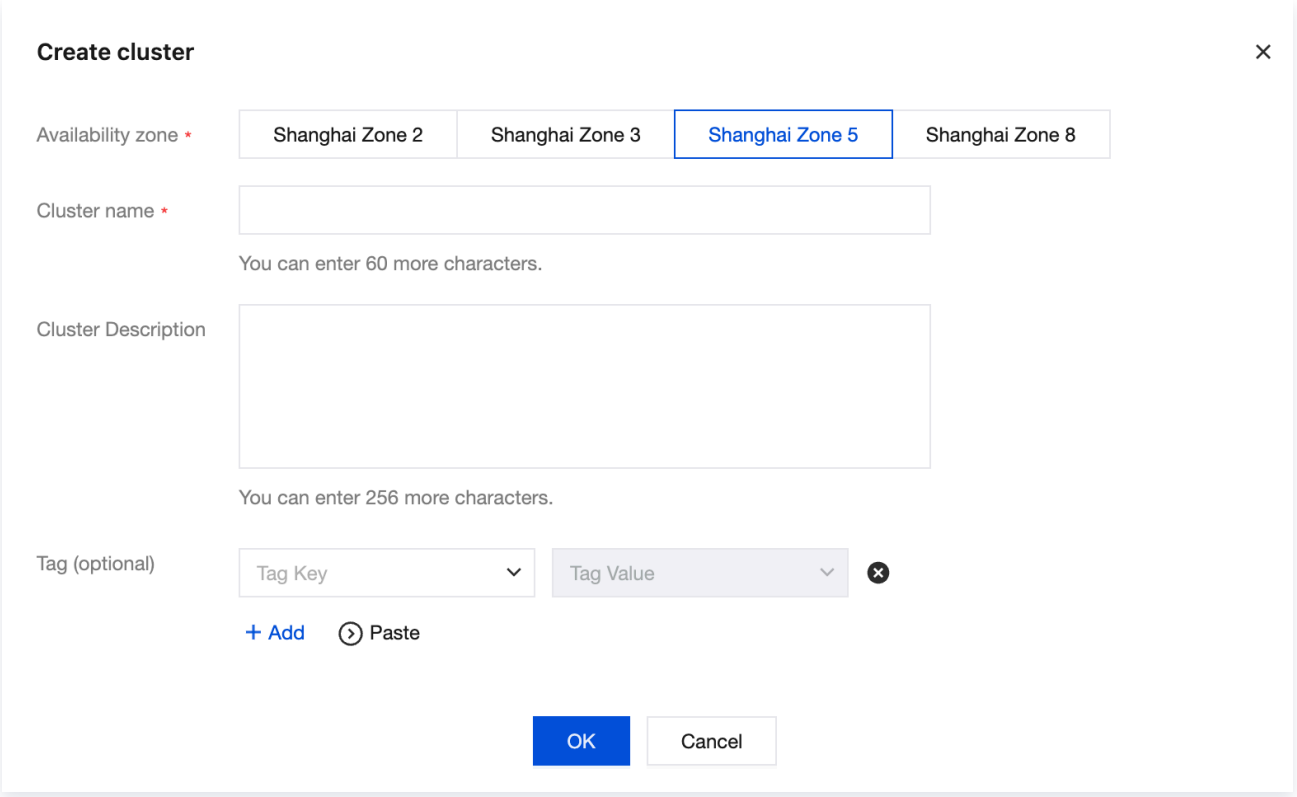

4. Click **OK** to create the cluster.

Step 2: Go to the purchase page.

You can enter the purchase page to start purchasing instances through the following two ways:

- Log in to the CVM console, select **Instances** in the left sidebar, and click **Create Instance**.
- On the Hyper Computing Cluster page, click **scale-out** in the operation column of the target cluster, as shown in the following figure:

Step 3: Select the billing mode, network, region, and model.

After going to the purchase page, select the billing mode, network, region, and model. This article uses **Shanghai Zone 5** and **GPU HCCPNV5v** as configuration examples. The actual information on the purchase page shall prevail:

- **Billing mode**: You can choose as needed. For details, see Billing Overview.
- **Regions and availability zones**: The available availability zones are subject to the instance purchase page.
- **Instance**: Select **Hyper Computing Cluster** for **Architecture**. This article uses **GPU HCCPNV5v** as an example. You can choose as needed.

Step 4: Select the image and Hyper Computing Cluster.

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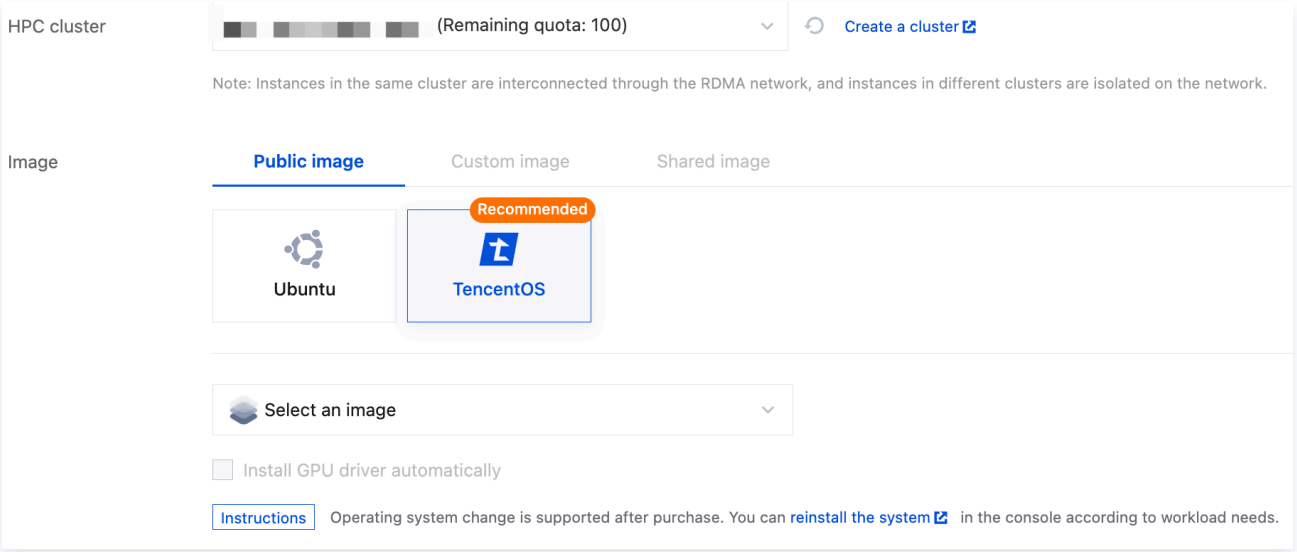
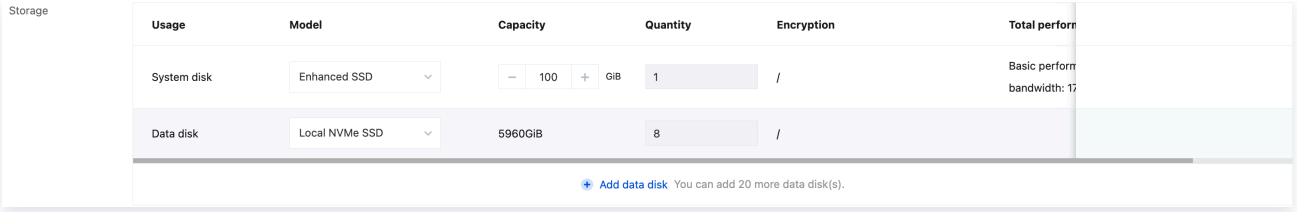
1. Select the instance **image** as needed. Hyper Computing instances support three image types: **public image**, **custom image**, and **shared image**.
2. Select the desired Hyper Computing Cluster cluster to join, as shown below:



> **Note:**
> GPU Hyper Computing instances must have the corresponding GPU driver to run normally. You can install the relevant driver in the following two ways:
> - If you select a public image, some instances support selecting **Install GPU driver automatically** to pre-install the corresponding version of the driver. It is recommended that you choose this method. This method is only supported for some Linux public images.
> - After the GPU instance is created, you can manually install the GPU driver if you choose other public images.

Step 5: Select the storage method.

1. Select the **storage** for the Hyper Computing instance. As shown in the figure below:



Main parameters are described as follows:

- **System disk**: Used for installing the operating system. Both the type and size can be flexibly selected (storage capacity adjustment is not supported for local system disk instances).
- **Data disk**: Used to expand the storage capacity of CVMs, providing efficient and reliable storage devices.

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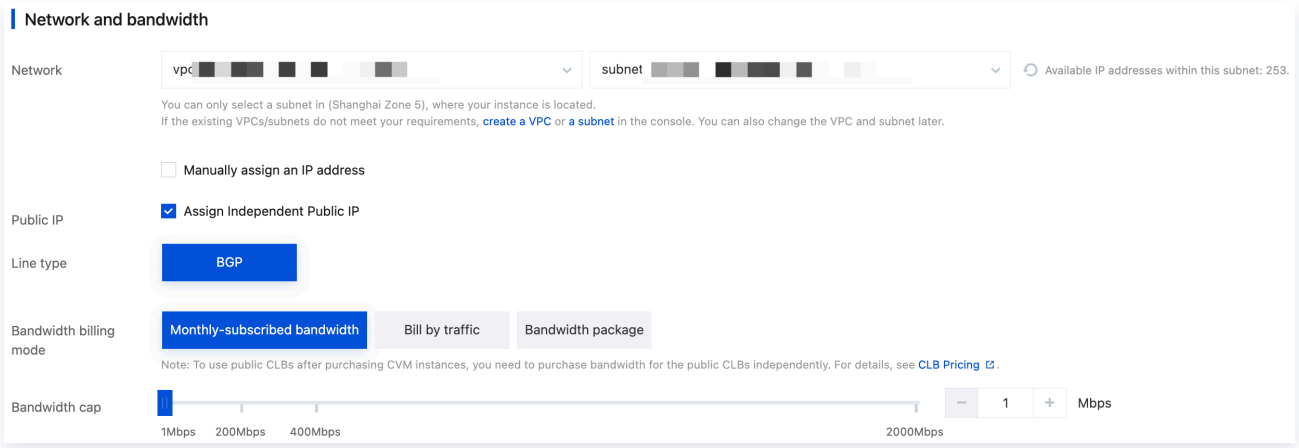
> **Note:**
> - Local system disk instances do not support storage capacity adjustment.
> - Local storage poses a risk of data loss and is only suitable for scenarios with high storage I/O performance requirements and a high-availability architecture. It is not applicable to usage scenarios where the application layer lacks a data redundancy architecture.

2. Click **Next: Set Network and Host** after setting is completed.

Step 6: Set the network, security group and host.

1. Select the network and bandwidth of Hyper Computing instance. As shown in the figure below:



   - **Network**: Select an existing VPC or create a new VPC.
   - **Public IP address**: If your instance requires public network access, select **Assign a standalone public IP address**. A public IP address will be assigned to the instance upon creation.
   - **Bandwidth billing mode**: Please see Public Network Billing Mode for public network bandwidth billing mode.
   - **Bandwidth cap**: The public network bandwidth cap of the instance. Configure as needed.

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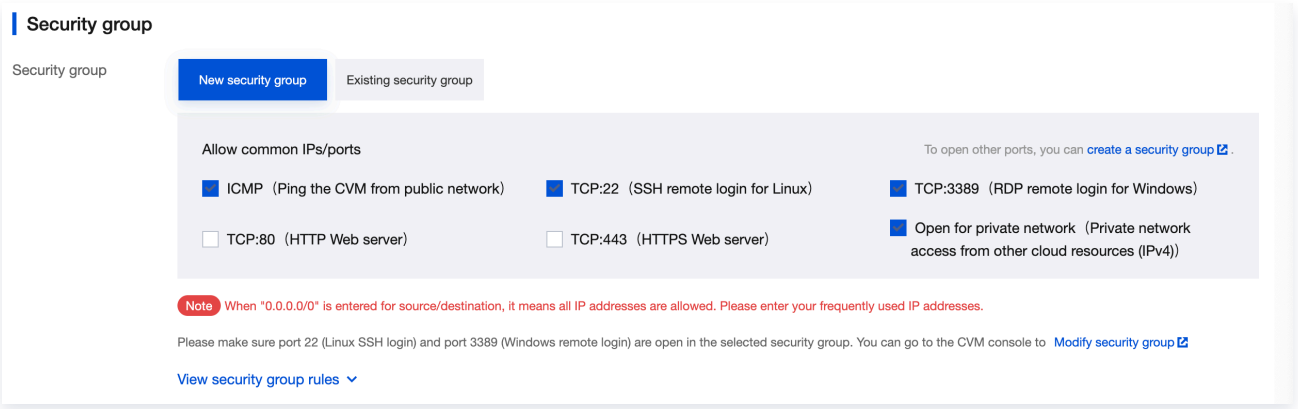
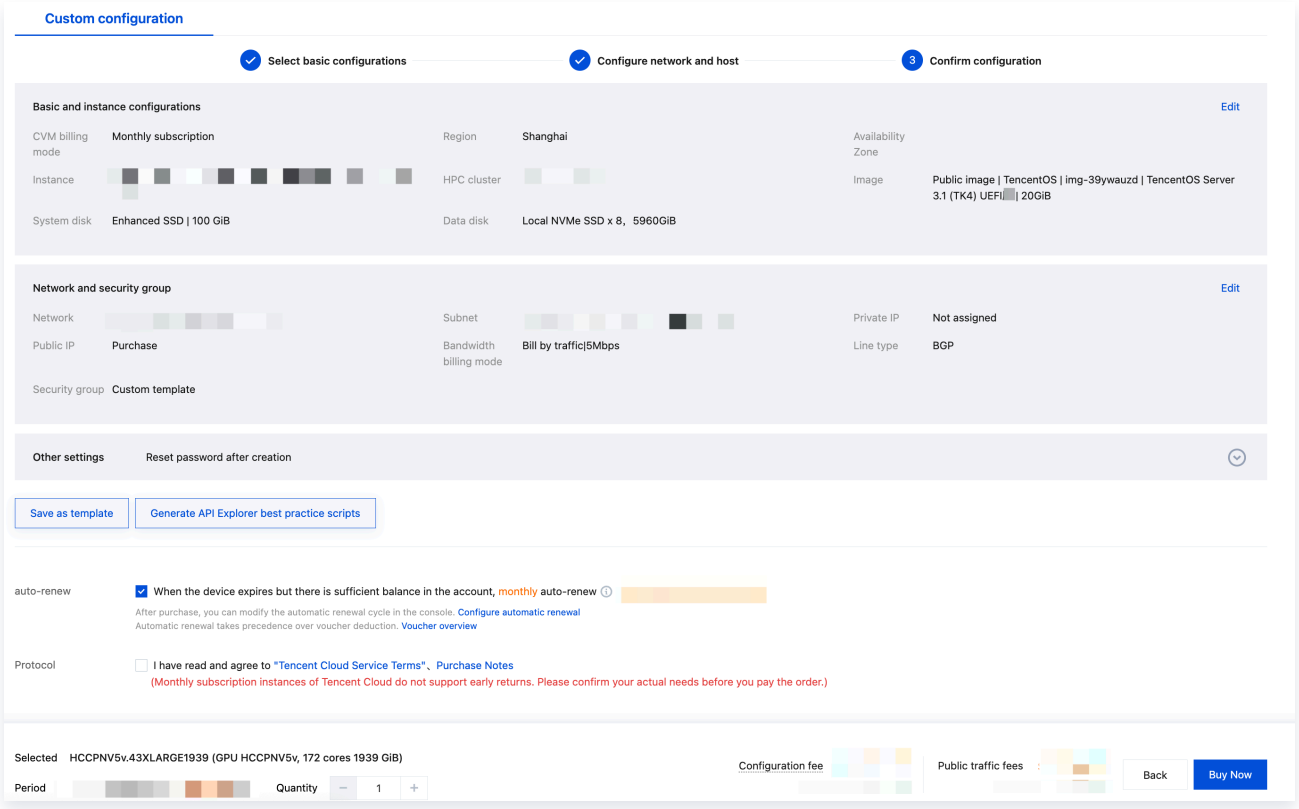
2. Create or select an existing **security group** to control the port access range. As shown in the figure below:



3. Set the login password or key of Hyper Computing Cluster instances
4. Set other custom configurations as needed.
5. Click **Next: Confirm Configuration**.

Step 7: Confirm the configuration information.

1. Please verify the instance information in the **Confirm Configuration** step.



   - Confirm whether the configuration items such as instance specification, image selection, storage, public network configuration, and security groups meet expectations.
   - You can select or verify the quantity and duration of purchase.
2. Read and select to agree to the Tencent Cloud Service Terms, then click **Buy Now.**

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Step 8: Check the order and make the payment.

Please verify the order information, select a payment method, and complete the payment.
After the payment is made, enter the console. Once the instance is created and started, you can log in to proceed.

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