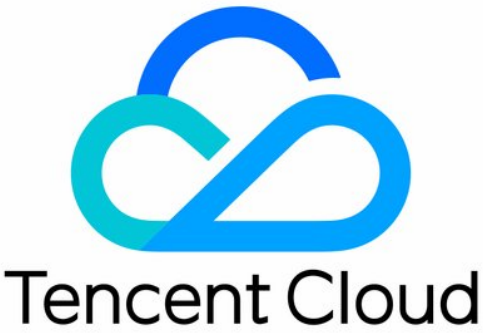
CVM Dedicated Host

Operation Guide

Product Documentation



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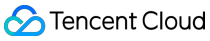

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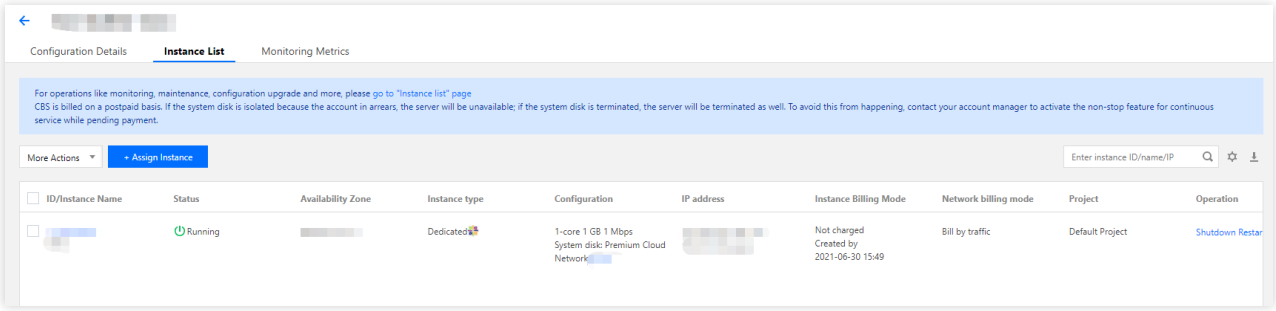
Operation Guide
Querying CDH Instance Information

Last updated：2021-06-30 16:15:49

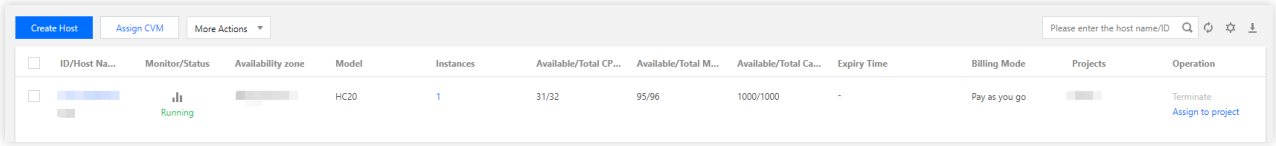
You can query CDH instance information through the console or an API.

Viewing CDH instance information via the console

1. Log in to the Dedicated Hosts console.
2. At the top of the **Dedicated Host** page, select a desired region. Then you can view information about all CDH instances in the selected region, including the availability zone, model, total and available resources, and expiry time, as shown below:



3. Click the ID of a CDH instance. On the details page displayed, you can view the information of the CDH instance and its CVM list.



Querying CDH instance information via an API

Use the `DescribeHosts` API to query the details of CDH instances.

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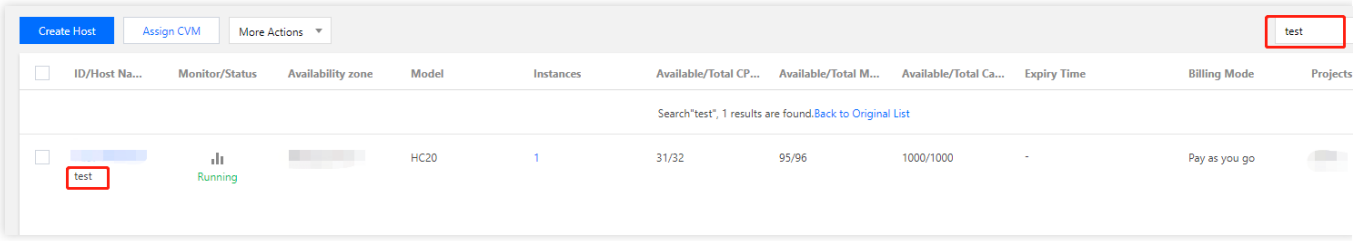
Search CDH Instance

Last updated：2021-06-30 16:16:42

You can use the console or API to search for CDH instances. Currently, the console supports searching by ID and name, while the API supports searching by availability zone, project, ID, name and status.

Searching for CDH Instance in Console

1. Log in to the CDH Console.
2. Select a region, enter the host ID or name in the search box in the upper right corner and click test.



Searching for CDH Instance Through API

CDH instances can be filtered using the DescribeHosts API. For details, see API for Viewing CDH Instance List.

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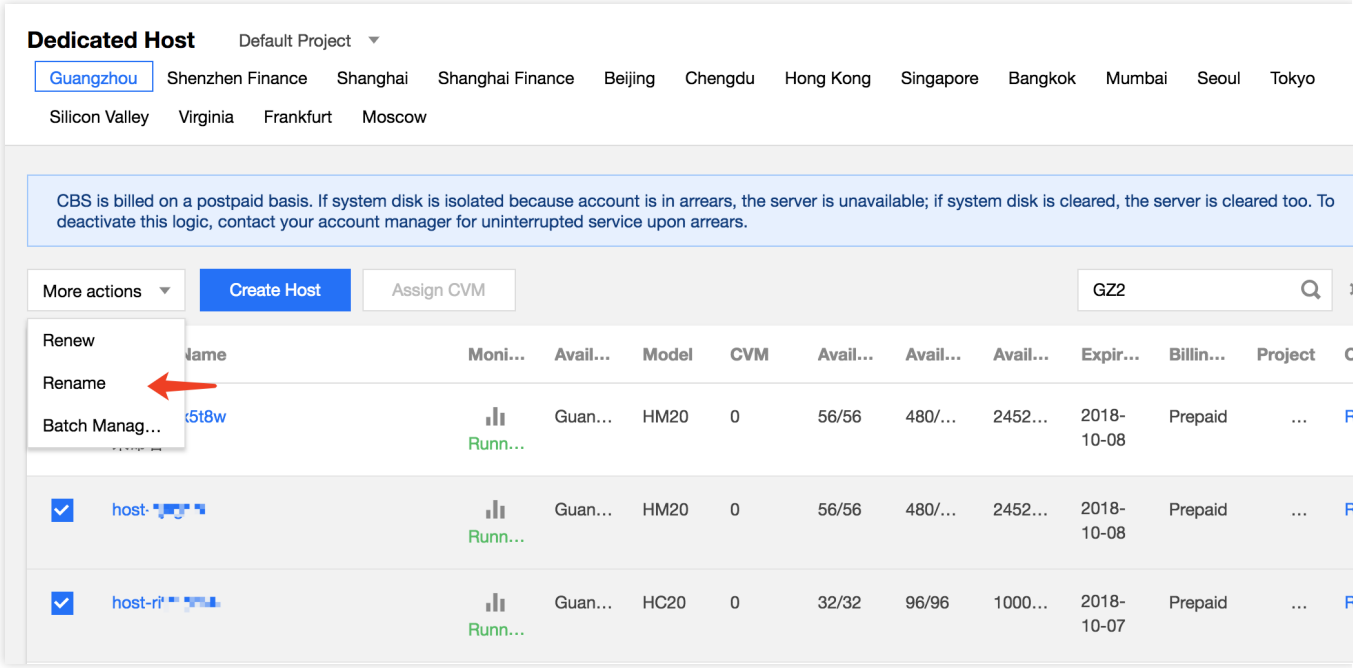
Rename CDH Instance

Last updated：2021-06-30 14:31:20

In order to facilitate quick identification and management of CDHs, Tencent Cloud supports setting of host name with immediate effect.

Renaming a CDH Instance in Console

1. Log in to the CDH Console.
2. Select a region, check the host to be renamed and click **More actions** > **Rename** at the top of the list.



3. In the renaming operation pop-up, enter the new host name and click **OK** to complete.

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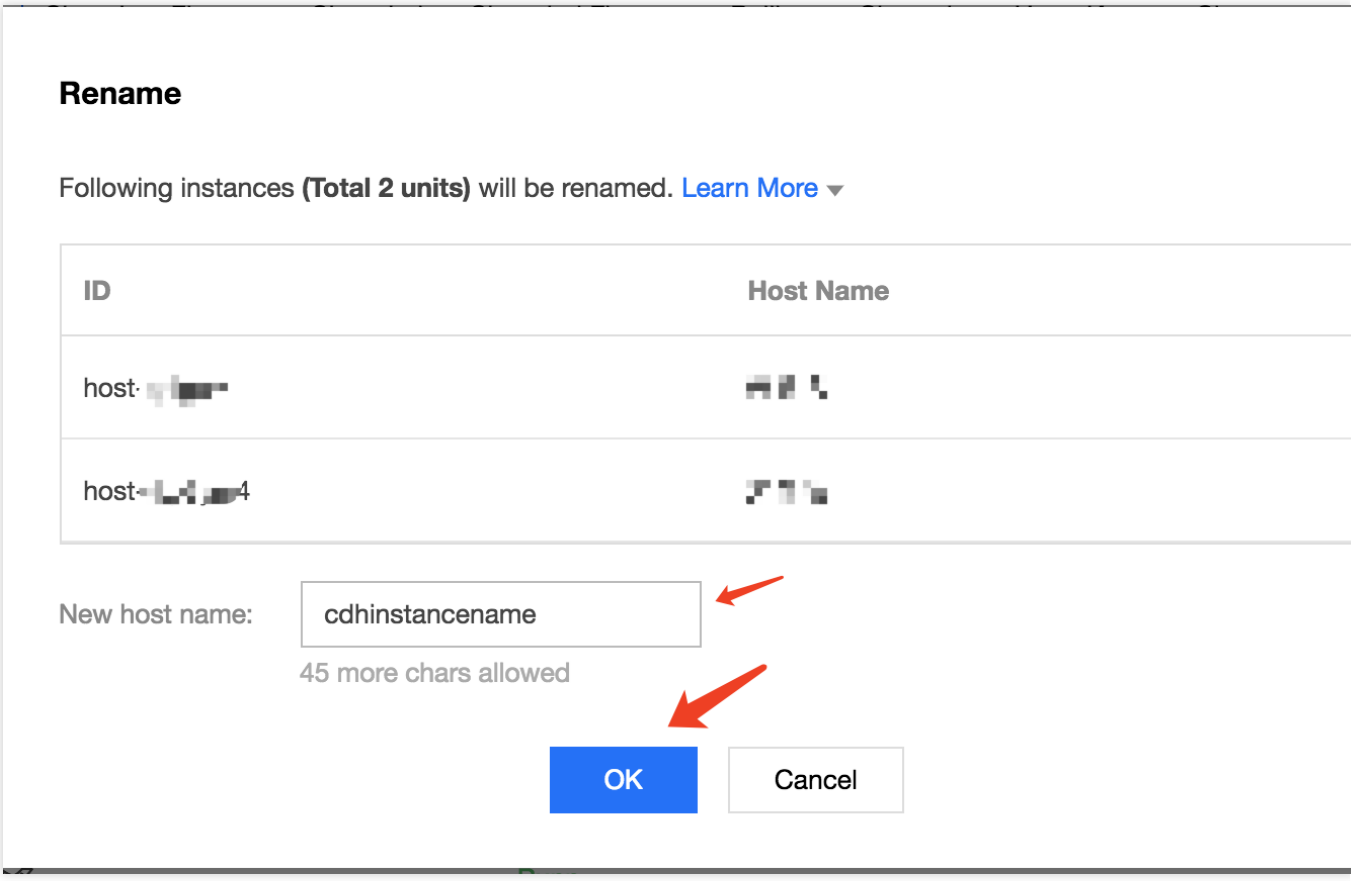

Renaming a CDH Instance Through API

CDH instances can be renamed using the ModifyHostsAttribute API. For details, see API for Modifying CDH Instance Attributes.

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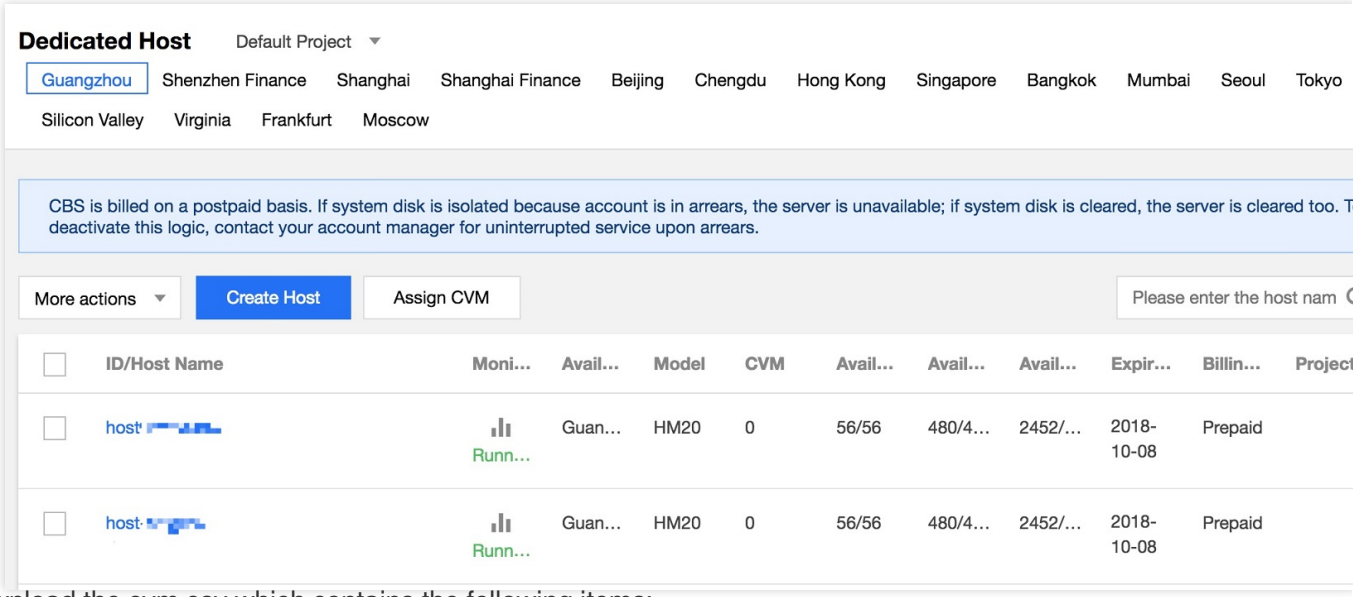
Export List of CDH Instance

Last updated：2019-09-20 17:16:28

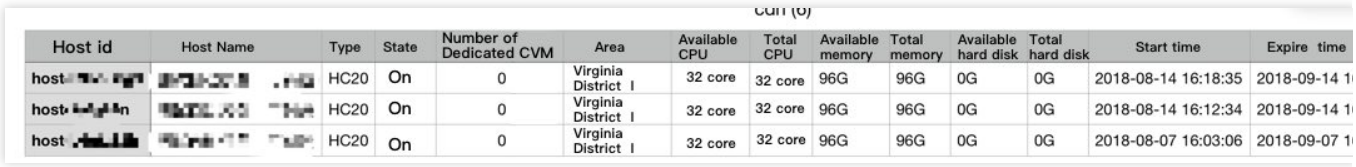
You can export the list of instances on CDH deployed in a specific region in the console. The exported fields include ID, name, model, status, number of instances, availability zone, number of available CPU cores, number of total CPU cores, available memory, total memory, available disk size, total disk size, creation time and expiration time.

Steps

1. Log in to the CDH Console.
2. Select a region and click the download icon as shown below.



3. Download the cvm.csv which contains the following items:



Host id	Host Name	Type	State	Number of Dedicated CVM	Area	Available CPU	Total CPU	Available memory	Total memory	Available hard disk	Total hard disk	Start time	Expire time
host		HC20	On	0	Virginia District I	32 core	32 core	96G	96G	0G	0G	2018-08-14 16:18:35	2018-09-14 1
host		HC20	On	0	Virginia District I	32 core	32 core	96G	96G	0G	0G	2018-08-14 16:12:34	2018-09-14 1
host		HC20	On	0	Virginia District I	32 core	32 core	96G	96G	0G	0G	2018-08-07 16:03:06	2018-09-07 1

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Assigning CVM Instances

Last updated：2021-06-21 15:39:40

Overview

You can create a CVM instance on a purchased CDH instance through the console or an API.

Prerequisites

To assign a CVM to a CDH instance, complete the following preparations as needed:
To create a CVM instance whose network type is virtual private cloud (VPC), you need to create a VPC in the target region and create a subnet in the target availability zone under the VPC.
If you do not use the default project, you need to create a project.
If you do not use the default security group, you need to create a security group in the target region and add a security group rule that meets your business requirements.
To bind a SSH key pair when creating a Linux instance, you need to create a SSH key for the target project.
To create a CVM instance with a custom image, you need to create a custom image or import an image.

Notes

The number of CVMs that can be created on a CDH instance depends on the CVM specifications and the available resources including CPU, memory, and local disk.
For example, a completely idle HS20 (56 cores and 224 GB memory) can be assigned with seven 8-core, 32 GB CVMs.

Directions

Creating a CVM via the console

Going to the CVM assignment page

1. Log in to the Dedicated Hosts console.
2. On the **Dedicated Host** page, select a desired region. Under the region, select a CDH instance, and click **Assign CVM**, as shown below:

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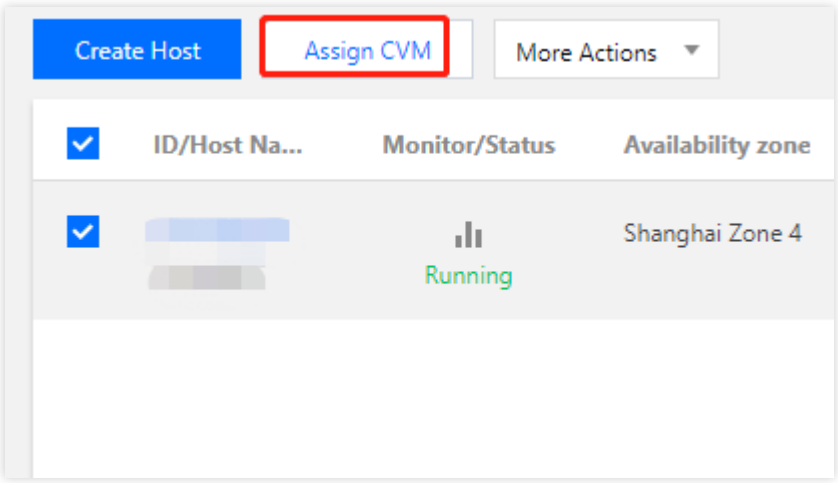
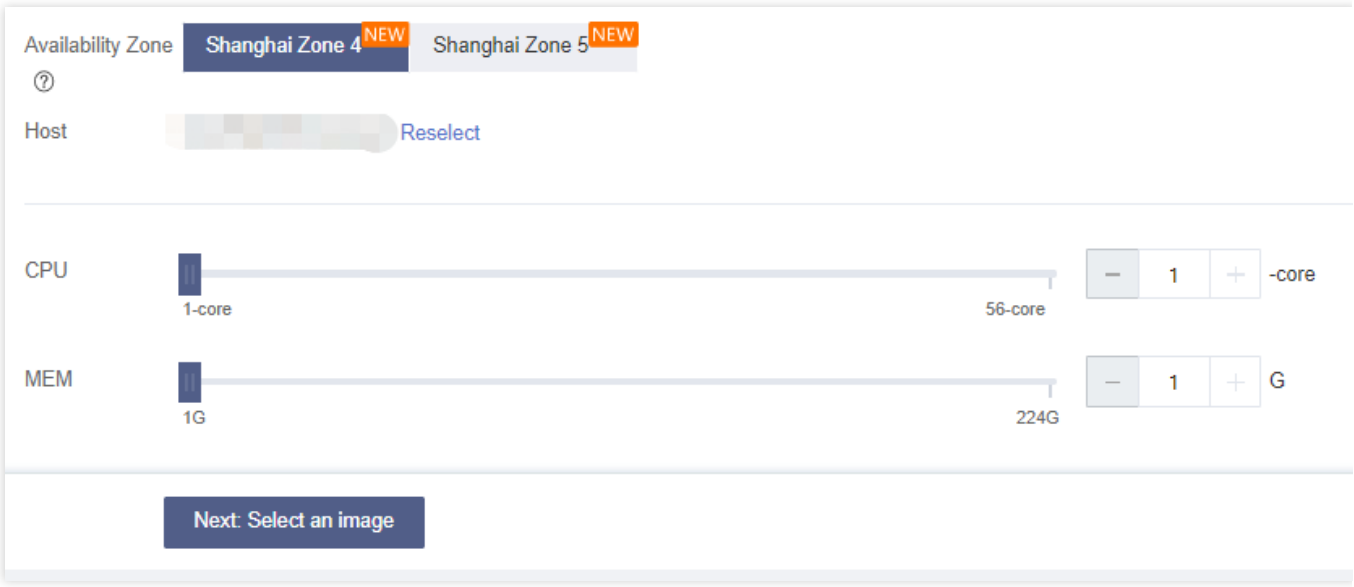


Selecting CPU and memory configurations for CVMs

1. On the **1. Select the region and model** page, select the region, model, and other information.



Main parameters are described as follows:

CPU: you can customize the CVM CPU according to the remaining resources of the selected CDH or host resource pool.

MEM: you can customize the CVM memory according to the remaining resources of the selected CDH or host resource pool.

Note:

The CVM configurations determine the number of CVMs that can be created.

2. Click **Next: Select an image**.

Selecting an image

1. On the **2. Select an image** page, select an image.

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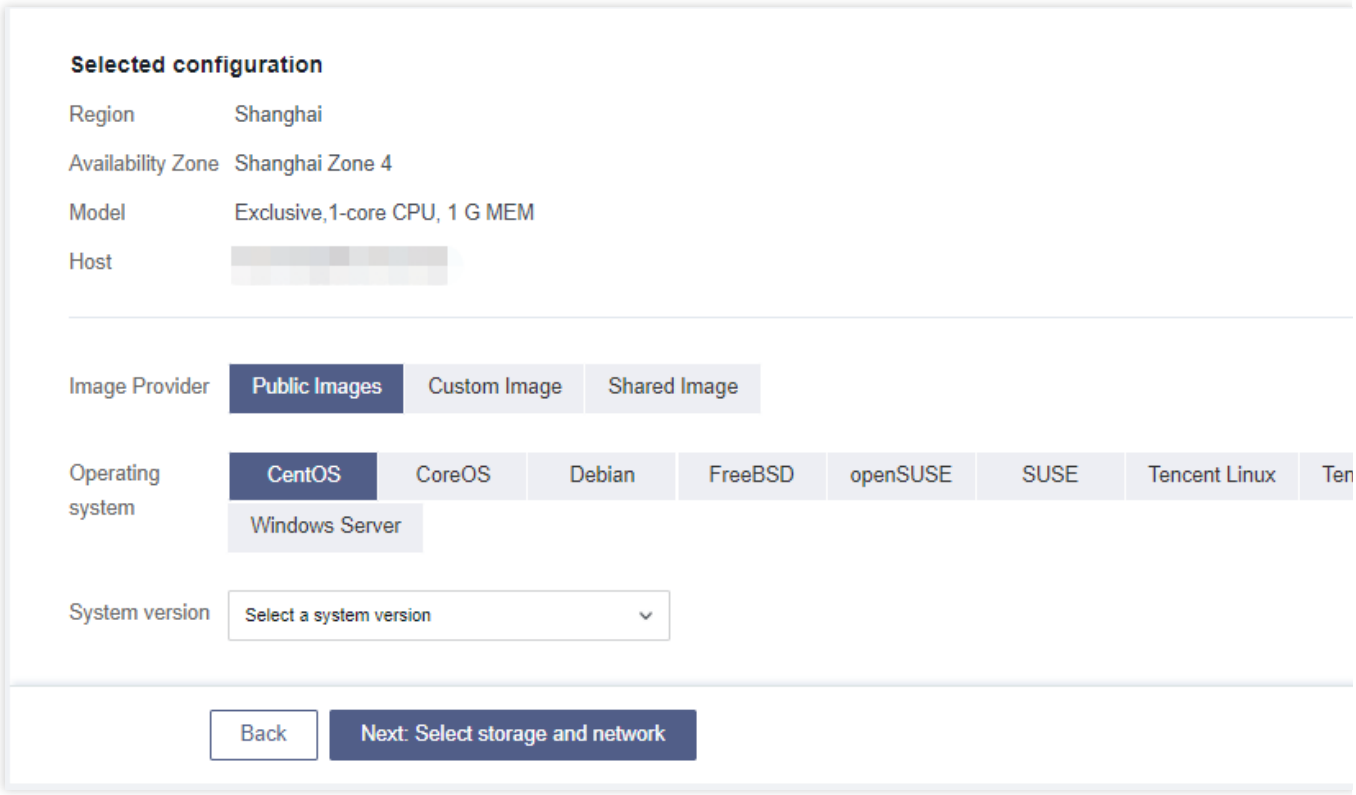

Main parameters are described as follows:

Image Provider: Tencent Cloud provides three types of images, namely public images, custom images, and shared images. For more information, see Image Types.

Operating system: select the operating system used in your environment.

System version: select the operating system version used in your environment.

2. Click **Next: Select storage and network**.

Selecting storage and network configurations

1. On the **Select storage and network** page, select the system disk and data disk, and configure network information.

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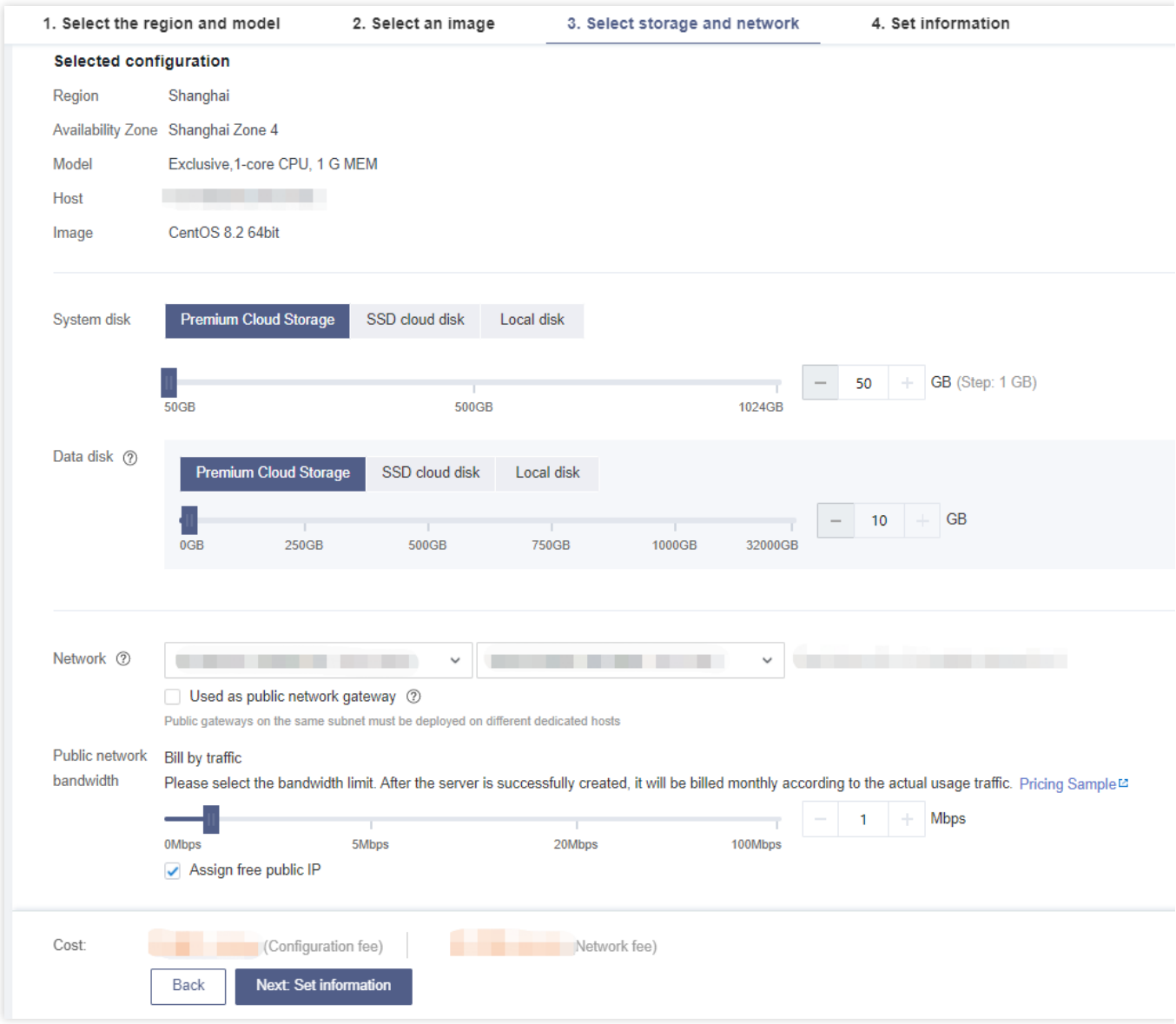

Main parameters are described as follows:

System disk: this parameter is required. The system disk is used to install the operating system. Its default capacity is 50 GB. You can select a disk type and capacity as needed. The available disk types vary depending on the region selected.

Data disk: this parameter is optional. You can choose to add a data disk when or after creating an instance, and select the cloud disk type and capacity. You can also create an empty data disk or create a data disk using a data disk snapshot.

CVM supports local disks (HDD or SDD) and cloud disks (HDD, Premium Cloud Storage, and SSD) for storage. For more information about cloud disks, see Cloud Disk Types.

Network type:

Classic Network: the classic network is unavailable for all accounts in regions that were activated after August 3, 2017 and some accounts that were registered after June 13, 2017.

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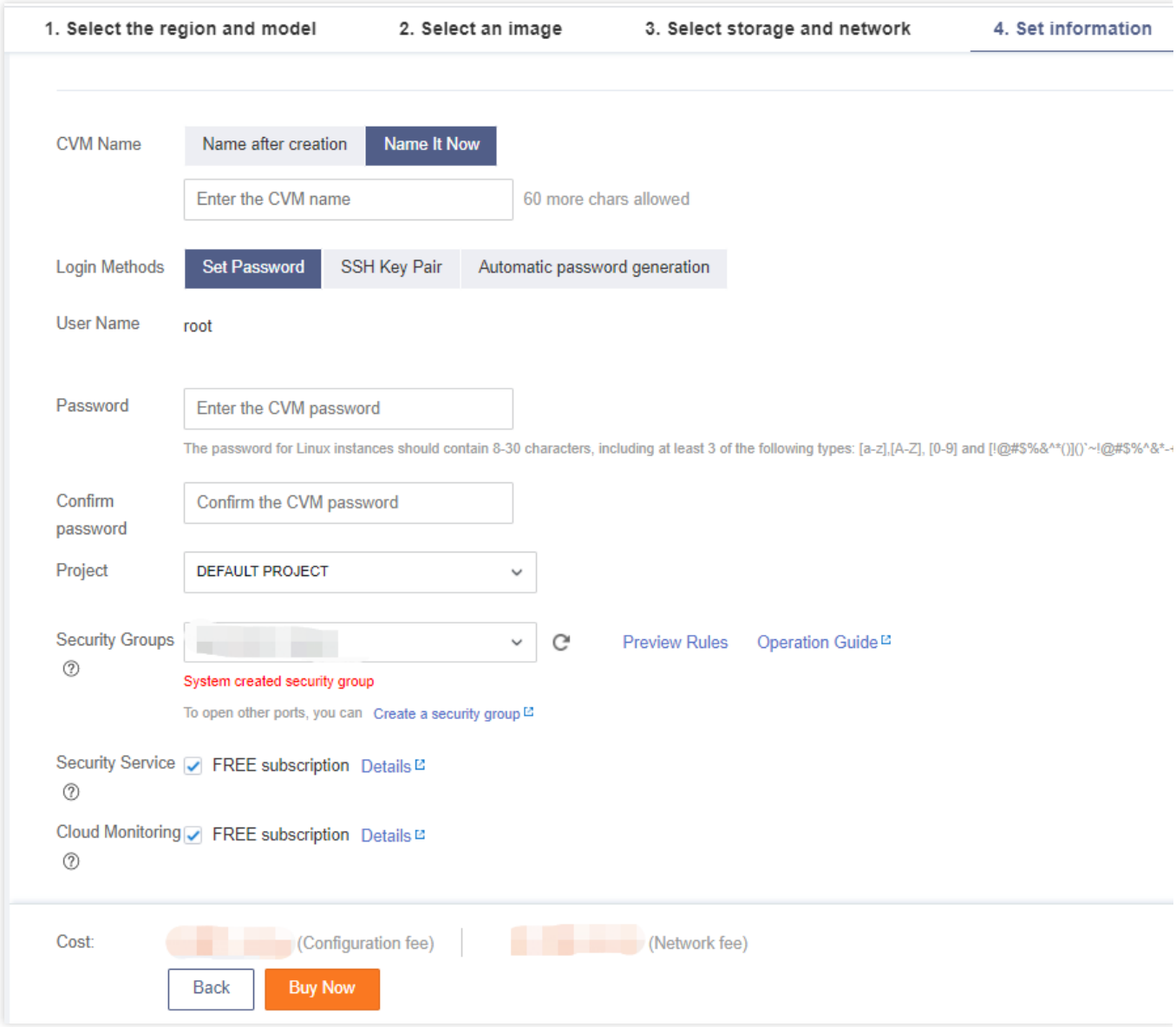
Virtual Private Cloud: select a VPC and a subnet. If no existing VPC and subnet are available, select the default VPC and subnet. For more information about the classic network and VPC, see Overview.
Public IP: the network of CVMs on a CDH instance supports only bill-by-traffic. To assign a public IP to a CVM, select **Buy Now**. The public IP assigned in this way cannot be directly unbound from the instance. However, you can convert the public IP into an EIP and then unbind it from the instance.
Public network bandwidth: set this parameter based on your actual requirements.
CVM Quantity: set this parameter based on your actual requirements.
2. Click **Next: Set information**.

Setting information

1. On the **4. Set information** page, set the project, CVM name, and login method, and select a security group.



Main parameters are described as follows:

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CVM Name:

If you select **Name after creation**, the name of the CVM after creation will be **Unnamed**, which is displayed only on the console and is not the host name of the CVM.

If you select **Name It Now**, enter a meaningful name within 60 characters.

Login Methods:

For CVMs with Linux images, the options include **Set Password**, **SSH Key Pair**, and **Automatic password generation**.

For CVMs with Windows images, the options include **Set Password** and **Automatic password generation**.

Security Groups:

If no security group is available, click **Create a security group**.

If there are available security groups, select an existing one. You can also preview the security group rules. For more information about security group rules, see Security Group.

Security Service: by default, DDoS Protection, Web Application Firewall (WAF), and Cloud Workload Protection are activated for free. For more information, see Product Introduction.

Cloud Monitoring: by default, cloud monitoring is enabled for free. You can install Cloud Monitor to obtain CVM monitoring metrics and display them in visual charts. You can also specify custom alarm thresholds. For more information, see Product Overview.

2. Click **Buy Now**.

Note:

After the CVM is created, go to the Message Center and receive information such as instance name, public IP, private IP, login name, and initial login password (if you choose the login method **Automatic password generation**). You can use these information to log in to and manage instances.

Creating a CVM via an API

Use the `RunInstances` API to create CVM instances on a specified CDH instance.

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Log into Dedicated CVM

Last updated：2019-09-26 18:49:25

A dedicated CVM instance can be logged in to just like with an ordinary CVM. For detailed instructions, see the corresponding CVM documentation.

Logging in to a Windows-based Instance

See Logging in to a Windows-based Instance.

Logging in to a Linux-based Instance

See Logging in to a Linux-based Instance.

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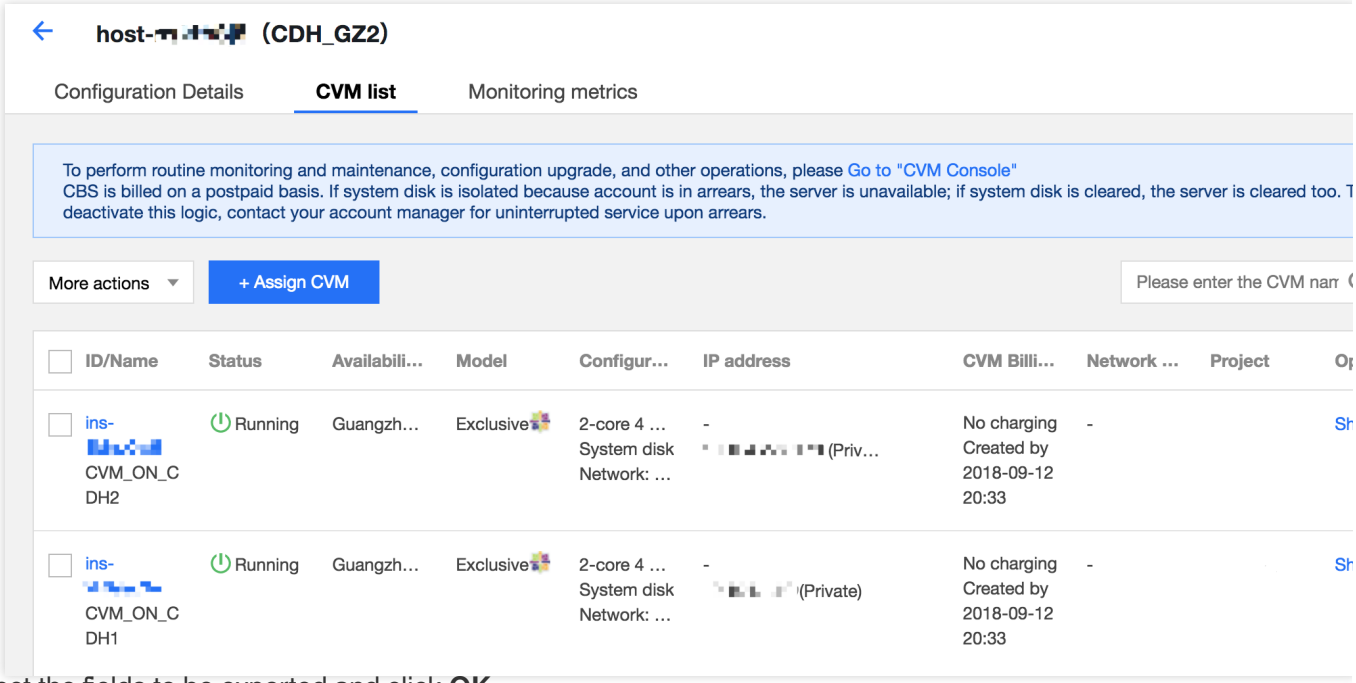
Export List of Dedicated CVM

Last updated：2021-06-30 11:37:42

You can export the list of instances on a specified host in the console and customize the fields contained in the export list. You can check up to 26 fields, including: ID, host name, status, region, availability zone, host type, operating system, image ID, CPU, memory, bandwidth, public IP, private IP, system disk type, system disk size, data disk type, data disk size, network, subnet, associated VPC, creation time, expiration time, host billing method, network billing mode, project and tag.

Steps

1. Log in to the CDH Console.
2. Select a region. Click the **ID/Host Name** of the target dedicated host to enter its details page, select the CVM list tab, and click **Download** as shown below.



3. Select the fields to be exported and click **OK**.

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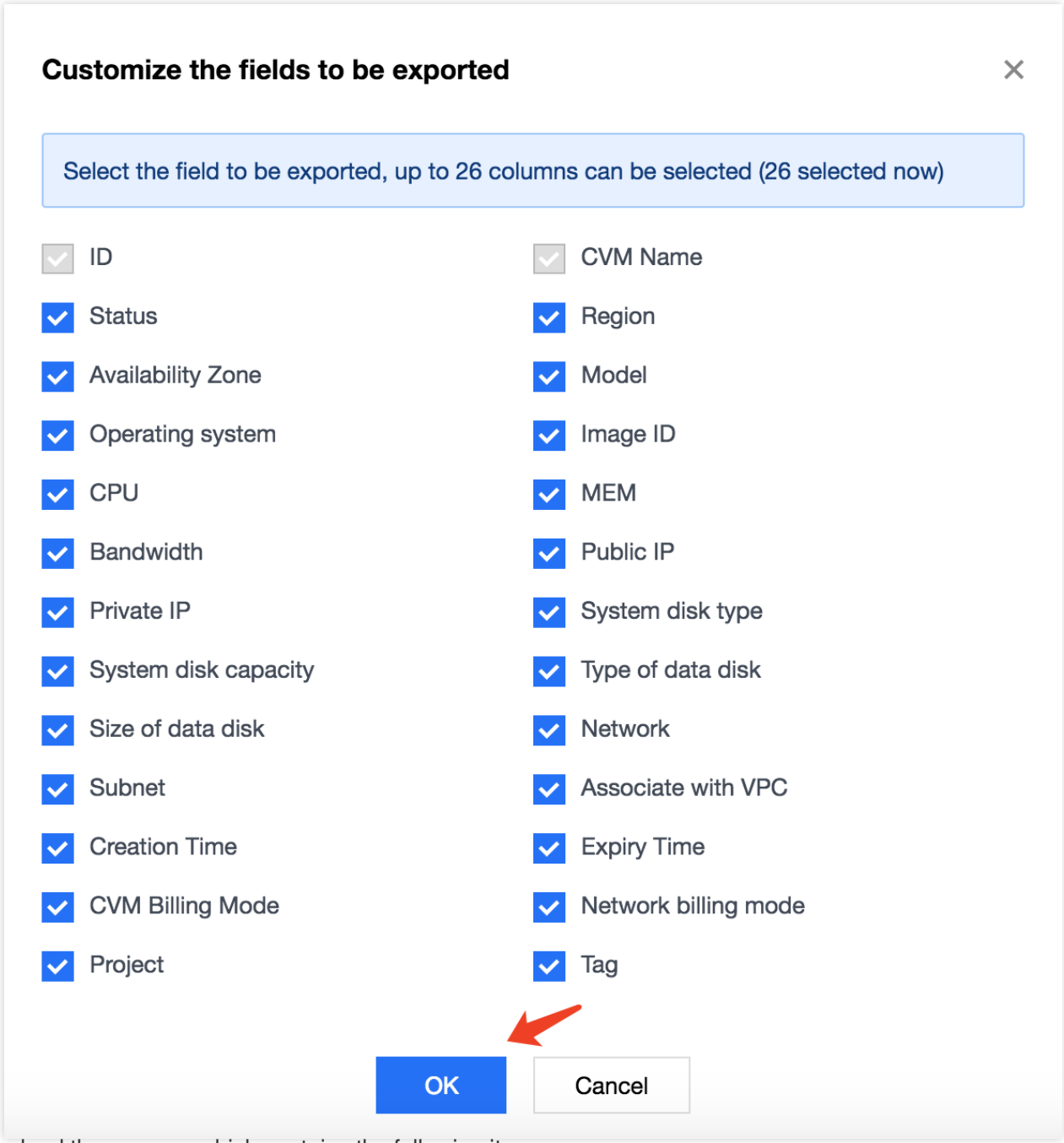

4. Download the cvm.csv which contains the following items:

resourseid	Localhost	State	Area	Availability area	Localhost type	Operating system	Image id	CPU	Memory	Bandwidth	Public network IP	Intranet IP
ins-h[redacted]	Unnamed	On	Guangzhou	Guangzhou II	Exclusive	CentOS 7.5 64-bit	img[redacted]	2	4	1	[redacted]	[redacted]

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CVM Configuration Adjustment

Last updated：2019-11-07 10:04:46

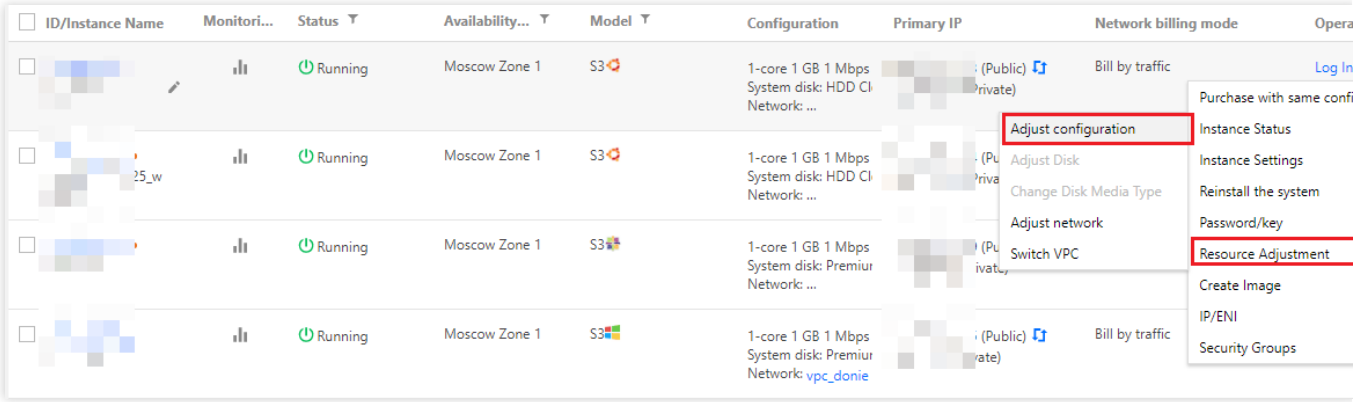
You can adjust configuration of the Cloud Virtual Machine (CVM) on a dedicated host to meet service requirements during different periods. The configuration adjustment range is limited by the number of available resources on the dedicated host.

Notes

When the CVM is in the **shutdown** state, you can adjust configuration of the CVM in the console directly.
When the CVM is in the **running** state, you must forcibly shut down the CVM before configuration adjustment.

Steps

1. Log in to the CVM Console.
2. Find the target instance, and click **More** -> **Resource Adjustment** -> **Adjust Configuration** in the **Operation** column on the right, see the figure below.



3. In the dialog box that appears, complete the settings and click **Next**.

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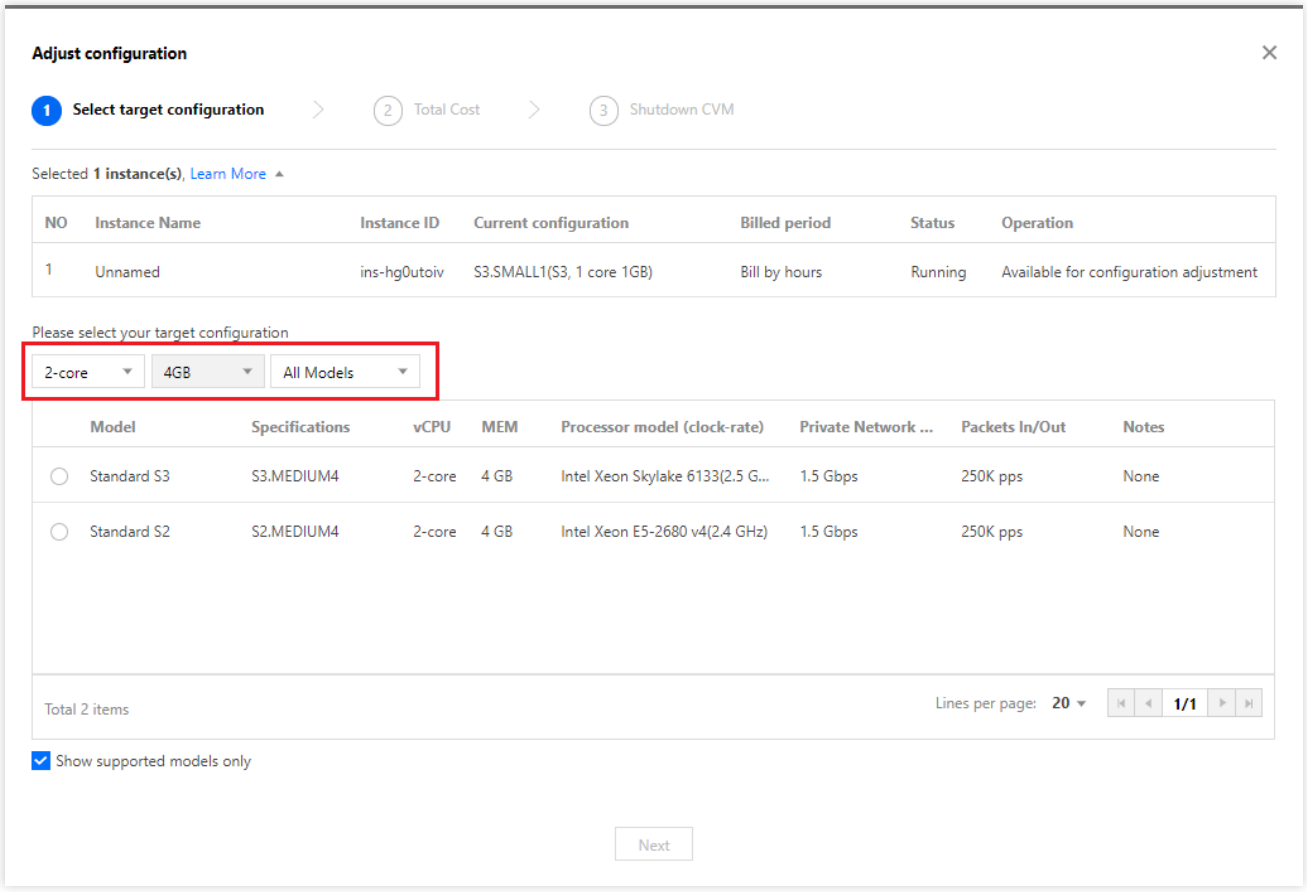
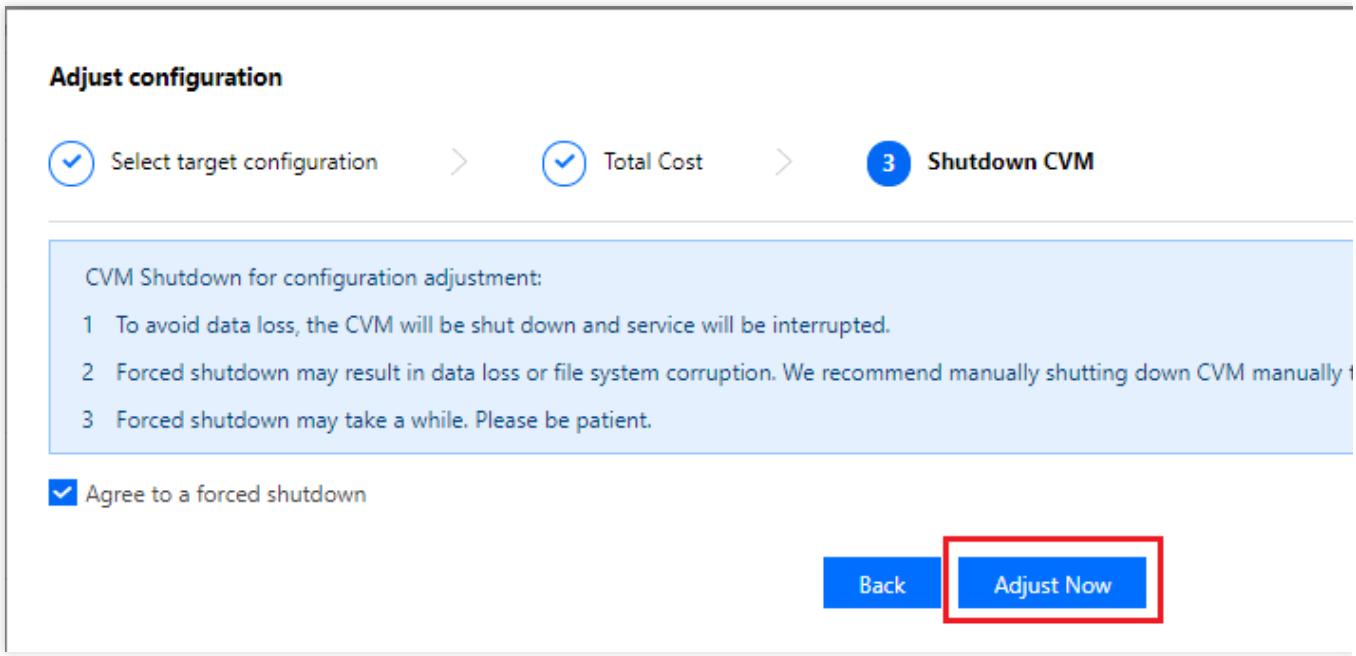


4. After confirming the settings, click **Adjust Now** and wait until configuration adjustment is complete.



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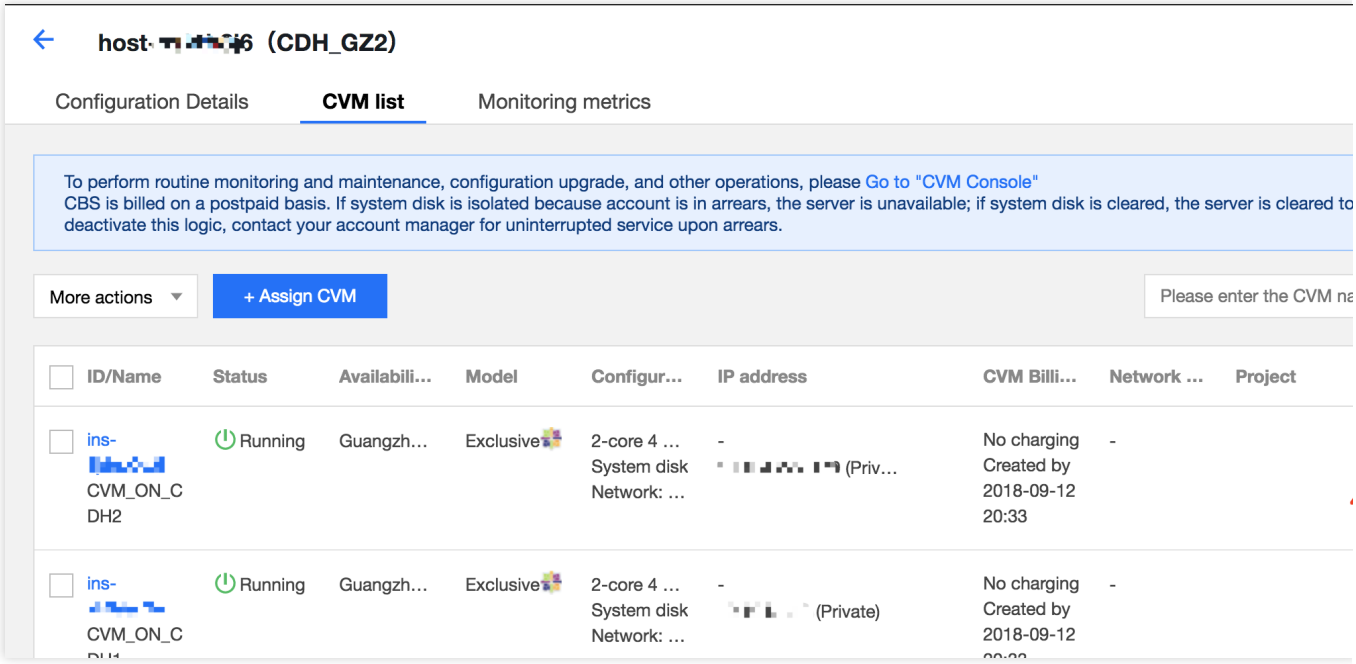
Terminating Dedicated CVMs

Last updated：2020-05-12 14:47:44

When you no longer need a dedicated CVM, you can terminate it at any time. After the dedicated CVM is terminated, both the local disks and non-elastic cloud disks mounted on the instance will be terminated as well, and the data stored on these storage media will be lost. However, the elastic cloud disks mounted on the instance will be retained, and the data stored on them will not be affected.

Terminating a dedicated CVM through the CVM console

1. Log in to the CVM Console.
2. Locate the dedicated CVM to be terminated. In the **Operation** column, choose **More** > **Instance Status** > **Terminate/Return**.



Terminating a dedicated CVM through an API

Use the TerminateInstances API to terminate a dedicated CVM instance. For more information, see TerminateInstances.

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Migrating Instances Among
Migrating Instances Among CDHs

Last updated：2021-09-27 18:45:46

Overview

This document describes how to migrate instances among dedicated hosts.

Notes

To migrate an instance, note the following:
The instance to migrate is shut down.
An instance with local disks cannot be migrated.
Use VPC for the migiration. If you need to migrate an instance in the classic network, switch to VPC
The destination CVM Dedicated Host (CDH) should meet the following requirements:
Both the source and destination CDHs are in the same availability zone of a single region under the same account.
The destination CDH has sufficient available resources. The available CPU and memory resources should be no less than that of the instances to migrate.

Directions

1. Log in to the CVM console and click **Dedicated Hosts** on the left sidebar.
2. Select the region where the CDH resides.
3. Click the **ID/Host Name** of the CDH that hosts the instance to migrate to enter the details page. Select the **Instance List** tab.
4. Migrate one or multiple instances in the list as needed:
Migrating a single instance
Batch migrating instances
Select the instance to migrate, and click **More** > **Change Host** under the **Operation** column.

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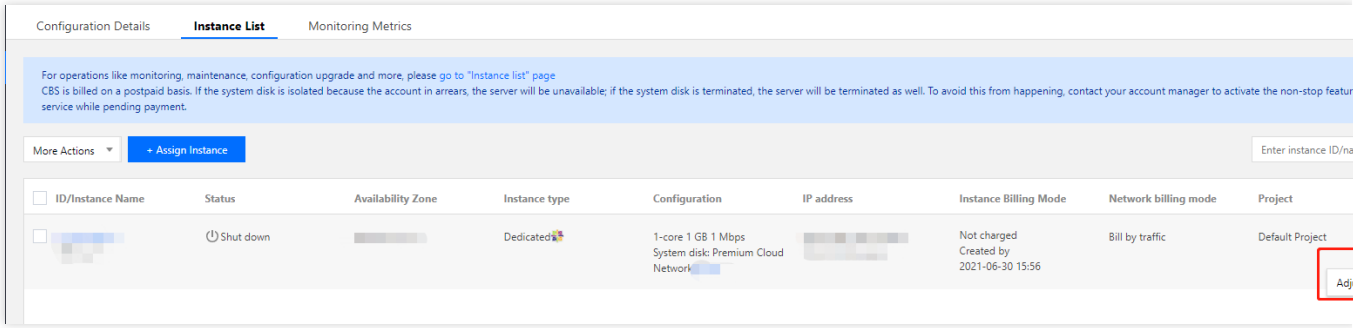
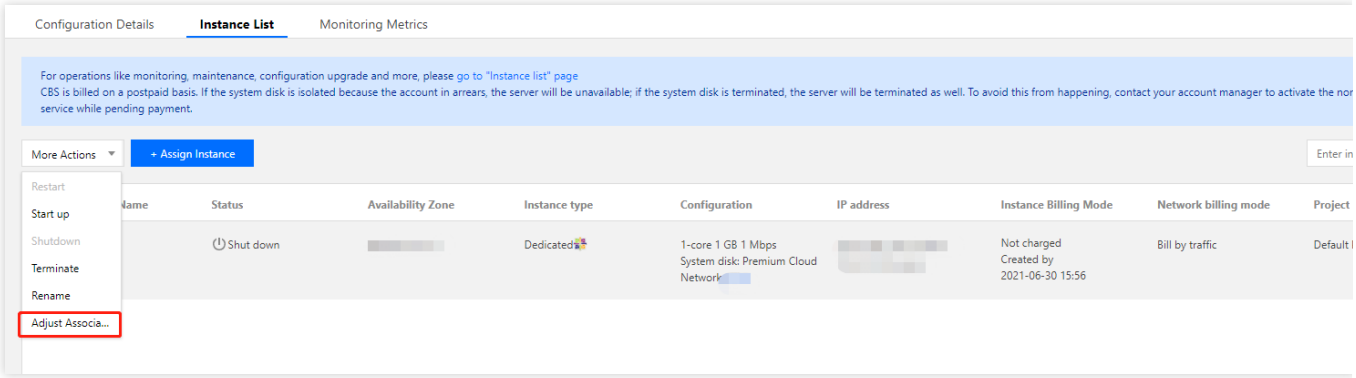
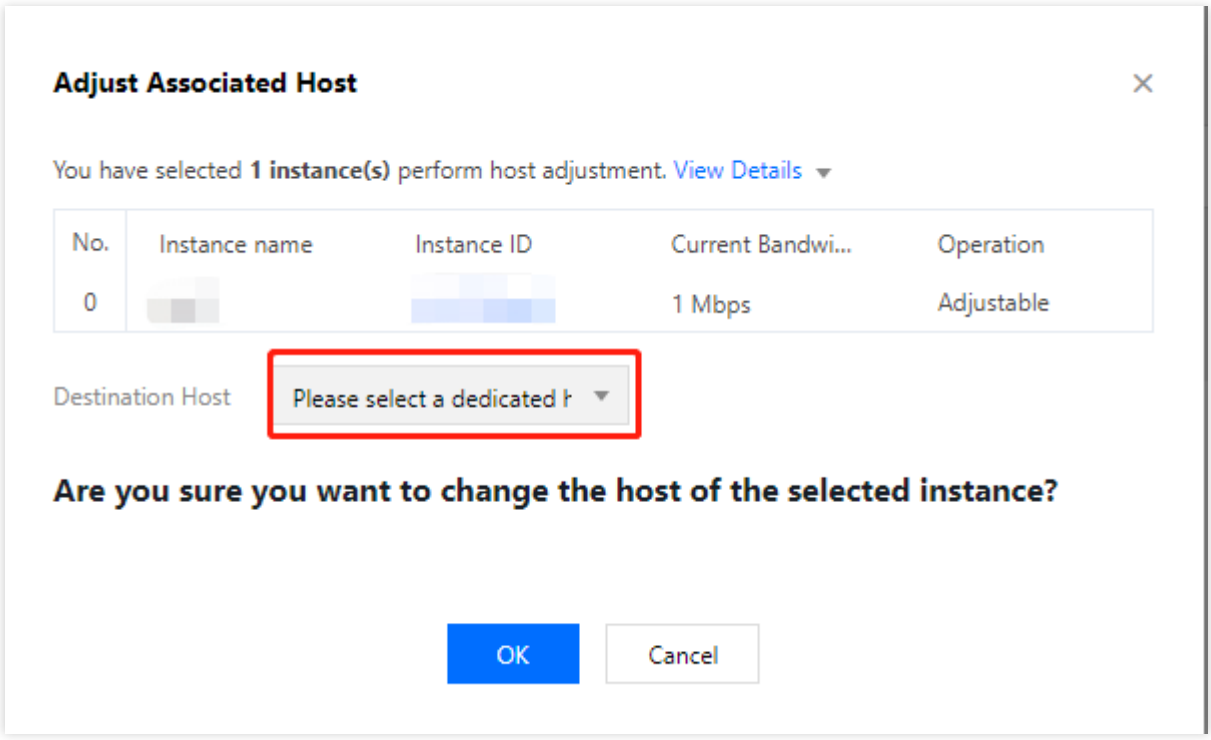


Select instances to migrate, and select **More Actions** > **Change Host** above the list.



5. In the pop-up window, select a destination host.



6. Click **OK**.

Refresh the **Dedicated Hosts** page. You can see that the instances reside in another host after the migration, and

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they are shut down.

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