

CVM Dedicated Host

Operation Guide

Product Documentation



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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:

For operations like monitoring, maintenance, configuration upgrade and more, please go to "Instance list" page CBS is billed on a postpaid basis. If the system disk is isolated because the account is in arrears, the server will be unavailable; if the system disk is terminated, the server will be terminated as well. To avoid this from happening, contact your account manager to activate the non-stop feature for continuous service while pending payment.									
More Actions + Assign Instance Enter instance ID/name/IP Q ⚙ ⬇									
<input type="checkbox"/> ID/Instance Name	Status	Availability Zone	Instance type	Configuration	IP address	Instance Billing Mode	Network billing mode	Project	Operation
<input type="checkbox"/> [ID]	Running	[Zone]	Dedicated	1-core 1 GB 1 Mbps System disk: Premium Cloud Network: [Network]	[IP]	Not charged Created by 2021-06-30 15:49	Bill by traffic	Default Project	Shutdown Restart

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.

Create Host Assign CVM More Actions Please enter the host name/ID Q ⚙ ⬇											
<input type="checkbox"/> ID/Host Name	Monitor/Status	Availability zone	Model	Instances	Available/Total CP...	Available/Total M...	Available/Total Ca...	Expiry Time	Billing Mode	Projects	Operation
<input type="checkbox"/> [ID]	Running	[Zone]	HC20	1	31/32	95/96	1000/1000	-	Pay as you go	[Project]	Terminate Assign to project

Querying CDH instance information via an API

Use the [DescribeHosts](#) API to query the details of CDH instances.

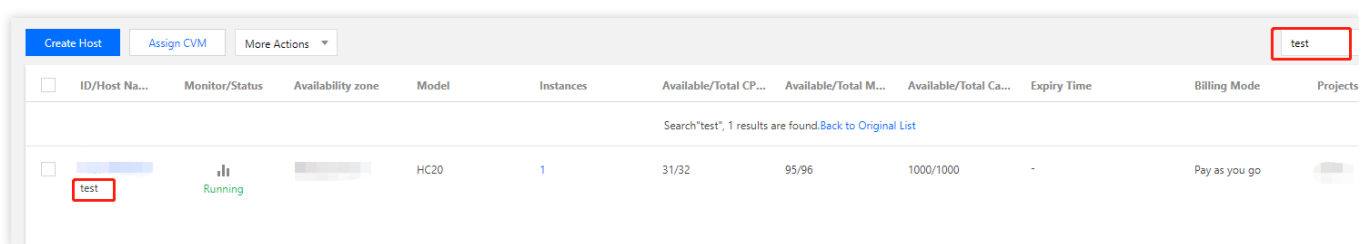
Search CDH Instance

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](#).

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.

The screenshot shows the 'Dedicated Host' console interface. At the top, there's a 'Default Project' dropdown and a list of regions: Guangzhou, Shenzhen Finance, Shanghai, Shanghai Finance, Beijing, Chengdu, Hong Kong, Singapore, Bangkok, Mumbai, Seoul, Tokyo, Silicon Valley, Virginia, Frankfurt, and Moscow. Below this is a blue banner with a notice about CBS billing. The main area contains a table of hosts. A 'More actions' dropdown menu is open, showing options: Renew, Rename (highlighted with a red arrow), and Batch Manag... The table has columns: Name, Moni..., Avail..., Model, CVM, Avail..., Avail..., Avail..., Expir..., Billin..., Project, and C. The first row shows a host named 'host-5t8w' with status 'Runn...'. The second row shows a host named 'host-ri' with status 'Runn...'. The third row shows a host named 'host-ri' with status 'Runn...'. The table also includes checkboxes for selection, a 'Create Host' button, an 'Assign CVM' button, and a search bar with 'GZ2' entered.

Name	Moni...	Avail...	Model	CVM	Avail...	Avail...	Avail...	Expir...	Billin...	Project	C
host-5t8w	Runn...	Guan...	HM20	0	56/56	480/...	2452...	2018-10-08	Prepaid	...	F
host-ri	Runn...	Guan...	HM20	0	56/56	480/...	2452...	2018-10-08	Prepaid	...	F
host-ri	Runn...	Guan...	HC20	0	32/32	96/96	1000...	2018-10-07	Prepaid	...	F

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

Rename

Following instances **(Total 2 units)** will be renamed. [Learn More](#) ▼

ID	Host Name
host-██████	███
host-██████4	███

New host name:

45 more chars allowed

OK

Cancel

Renaming a CDH Instance Through API

CDH instances can be renamed using the `ModifyHostsAttribute` API. For details, see [API for Modifying CDH Instance Attributes](#).

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.

Dedicated Host
Default Project

Guangzhou
Shenzhen Finance
Shanghai
Shanghai Finance
Beijing
Chengdu
Hong Kong
Singapore
Bangkok
Mumbai
Seoul
Tokyo
Silicon Valley
Virginia
Frankfurt
Moscow

CBS is billed on a postpaid basis. If system disk is isolated because account is in arrears, the server is unavailable; if system disk is cleared, the server is cleared too. To deactivate this logic, contact your account manager for uninterrupted service upon arrears.

More actions
Create Host
Assign CVM
Please enter the host name

<input type="checkbox"/>	ID/Host Name	Moni...	Avail...	Model	CVM	Avail...	Avail...	Avail...	Expir...	Billin...	Project
<input type="checkbox"/>	host-...	Runn...	Guan...	HM20	0	56/56	480/4...	2452/...	2018-10-08	Prepaid	
<input type="checkbox"/>	host-...	Runn...	Guan...	HM20	0	56/56	480/4...	2452/...	2018-10-08	Prepaid	

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

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.

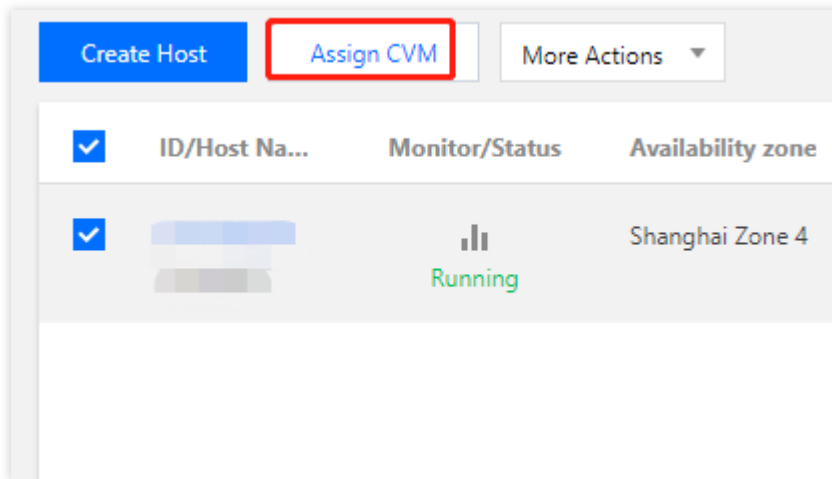
For example, a completely idle HS20 (56 cores and 224 GB memory) can be assigned with seven 8-core, 32 GB CVMs.

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:



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.

Selected configuration

Region

Shanghai

Availability Zone

Shanghai Zone 4

Model

Exclusive, 1-core CPU, 1 G MEM

Host

Image Provider

Public Images

Custom Image

Shared Image

Operating system

CentOS

CoreOS

Debian

FreeBSD

openSUSE

SUSE

Tencent Linux

Ten

Windows Server

System version

Select a system version

Back

Next: Select storage and network

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.

1. Select the region and model

2. Select an image

3. Select storage and network

4. Set information

Selected configuration

Region

Shanghai

Availability Zone

Shanghai Zone 4

Model

Exclusive, 1-core CPU, 1 G MEM

Host

Image

CentOS 8.2 64bit

System disk

Premium Cloud Storage

SSD cloud disk

Local disk

50GB

500GB

1024GB

50

GB (Step: 1 GB)

Data disk ?

Premium Cloud Storage

SSD cloud disk

Local disk

0GB

250GB

500GB

750GB

1000GB

32000GB

10

GB

Network ?

☐ Used as public network gateway ?

Public gateways on the same subnet must be deployed on different dedicated hosts

Public network bandwidth

Bill by traffic

Please select the bandwidth limit. After the server is successfully created, it will be billed monthly according to the actual usage traffic. [Pricing Sample](#)

0Mbps

5Mbps

20Mbps

100Mbps

1

Mbps

☒ Assign free public IP

Cost:

(Configuration fee)

Network fee)

Back

Next: Set information

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.

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.

1. Select the region and model

2. Select an image

3. Select storage and network

4. Set information

CVM Name

Name after creation

Name It Now

Enter the CVM name

60 more chars allowed

Login Methods

Set Password

SSH Key Pair

Automatic password generation

User Name

root

Password

Enter the CVM password

The password for Linux instances should contain 8-30 characters, including at least 3 of the following types: [a-z], [A-Z], [0-9] and [!@#\$%^&*(){}~!@#\$%^&*~]

Confirm password

Confirm the CVM password

Project

DEFAULT PROJECT

Security Groups

System created security group

To open other ports, you can [Create a security group](#)

Preview Rules

Operation Guide

Security Service

☒ FREE subscription

Details

Cloud Monitoring

☒ FREE subscription

Details

Cost:

(Configuration fee)

(Network fee)

Back

Buy Now

Main parameters are described as follows:

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.

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](#).

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.

The screenshot shows the 'CDH Console' interface for a dedicated host named 'host-...' in the 'CDH_GZ2' region. The 'CVM list' tab is selected, displaying a table of CVM instances. Above the table, there is a blue informational banner and a '+ Assign CVM' button. The table has columns for selection, ID/Name, Status, Availability, Model, Configuration, IP address, CVM Billing, Network, Project, and Operations. Two instances are listed: 'ins-...' (CVM_ON_C DH2) and 'ins-...' (CVM_ON_C DH1), both in 'Running' status.

<input type="checkbox"/>	ID/Name	Status	Availabili...	Model	Configur...	IP address	CVM Billi...	Network ...	Project	Op
<input type="checkbox"/>	ins- CVM_ON_C DH2	Running	Guangzh...	Exclusive	2-core 4 ... System disk Network: ...	- (Priv...	No charging Created by 2018-09-12 20:33	-		Str
<input type="checkbox"/>	ins- CVM_ON_C DH1	Running	Guangzh...	Exclusive	2-core 4 ... System disk Network: ...	- (Private)	No charging Created by 2018-09-12 20:33	-		Str

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

Customize the fields to be exported



Select the field to be exported, up to 26 columns can be selected (26 selected now)

- | | |
|--|--|
| <input checked="" type="checkbox"/> ID | <input checked="" type="checkbox"/> CVM Name |
| <input checked="" type="checkbox"/> Status | <input checked="" type="checkbox"/> Region |
| <input checked="" type="checkbox"/> Availability Zone | <input checked="" type="checkbox"/> Model |
| <input checked="" type="checkbox"/> Operating system | <input checked="" type="checkbox"/> Image ID |
| <input checked="" type="checkbox"/> CPU | <input checked="" type="checkbox"/> MEM |
| <input checked="" type="checkbox"/> Bandwidth | <input checked="" type="checkbox"/> Public IP |
| <input checked="" type="checkbox"/> Private IP | <input checked="" type="checkbox"/> System disk type |
| <input checked="" type="checkbox"/> System disk capacity | <input checked="" type="checkbox"/> Type of data disk |
| <input checked="" type="checkbox"/> Size of data disk | <input checked="" type="checkbox"/> Network |
| <input checked="" type="checkbox"/> Subnet | <input checked="" type="checkbox"/> Associate with VPC |
| <input checked="" type="checkbox"/> Creation Time | <input checked="" type="checkbox"/> Expiry Time |
| <input checked="" type="checkbox"/> CVM Billing Mode | <input checked="" type="checkbox"/> Network billing mode |
| <input checked="" type="checkbox"/> Project | <input checked="" type="checkbox"/> Tag |

OK

Cancel

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

resourceid	Localhost	State	Area	Availability area	Localhost type	Operating system	Image id	CPU	Memory	Bandwidth	Public network IP	Intranet IP
ins-h-1	Unnamed	On	Guangzhou	Guangzhou II	Exclusive	CentOS 7.5 64-bit	img-1	2	4	1	192.168.1.1	192.168.1.2

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.

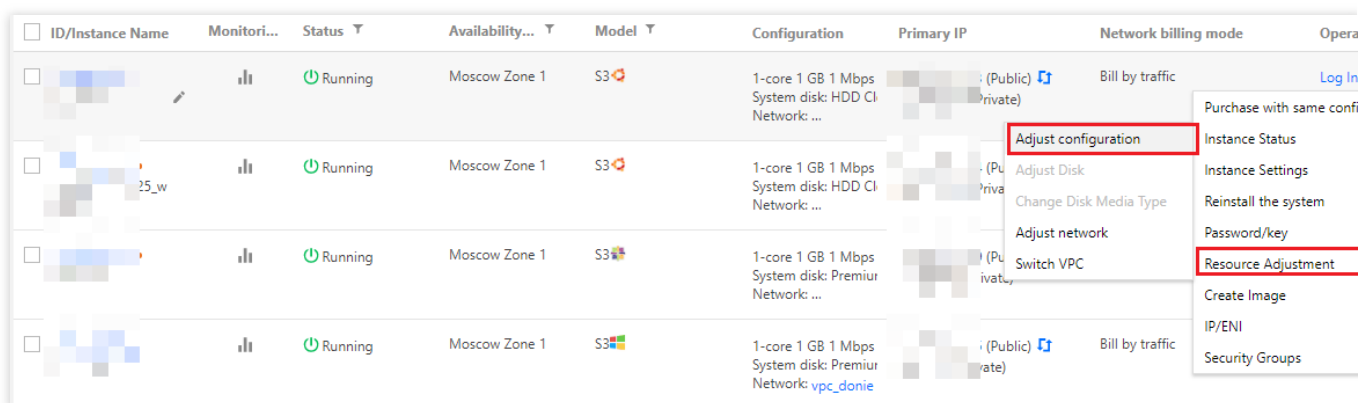
Notes

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**.

Adjust configuration

1 Select target configuration

2 Total Cost

3 Shutdown CVM

Selected 1 instance(s), [Learn More](#)

NO	Instance Name	Instance ID	Current configuration	Billed period	Status	Operation
1	Unnamed	ins-hg0utoiv	S3.SMALL1(S3, 1 core 1GB)	Bill by hours	Running	Available for configuration adjustment

Please select your target configuration

2-core

4GB

All Models

	Model	Specifications	vCPU	MEM	Processor model (clock-rate)	Private Network ...	Packets In/Out	Notes
<input type="radio"/>	Standard S3	S3.MEDIUM4	2-core	4 GB	Intel Xeon Skylake 6133(2.5 G...	1.5 Gbps	250K pps	None
<input type="radio"/>	Standard S2	S2.MEDIUM4	2-core	4 GB	Intel Xeon E5-2680 v4(2.4 GHz)	1.5 Gbps	250K pps	None

Total 2 items

Lines per page: 20

1/1

☒ Show supported models only

Next

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

Adjust configuration

☒ Select target configuration

☒ Total Cost

☒ 3 Shutdown CVM

CVM Shutdown for configuration adjustment:

1 To avoid data loss, the CVM will be shut down and service will be interrupted.

2 Forced shutdown may result in data loss or file system corruption. We recommend manually shutting down CVM manually t

3 Forced shutdown may take a while. Please be patient.

☒ Agree to a forced shutdown

Back

Adjust Now

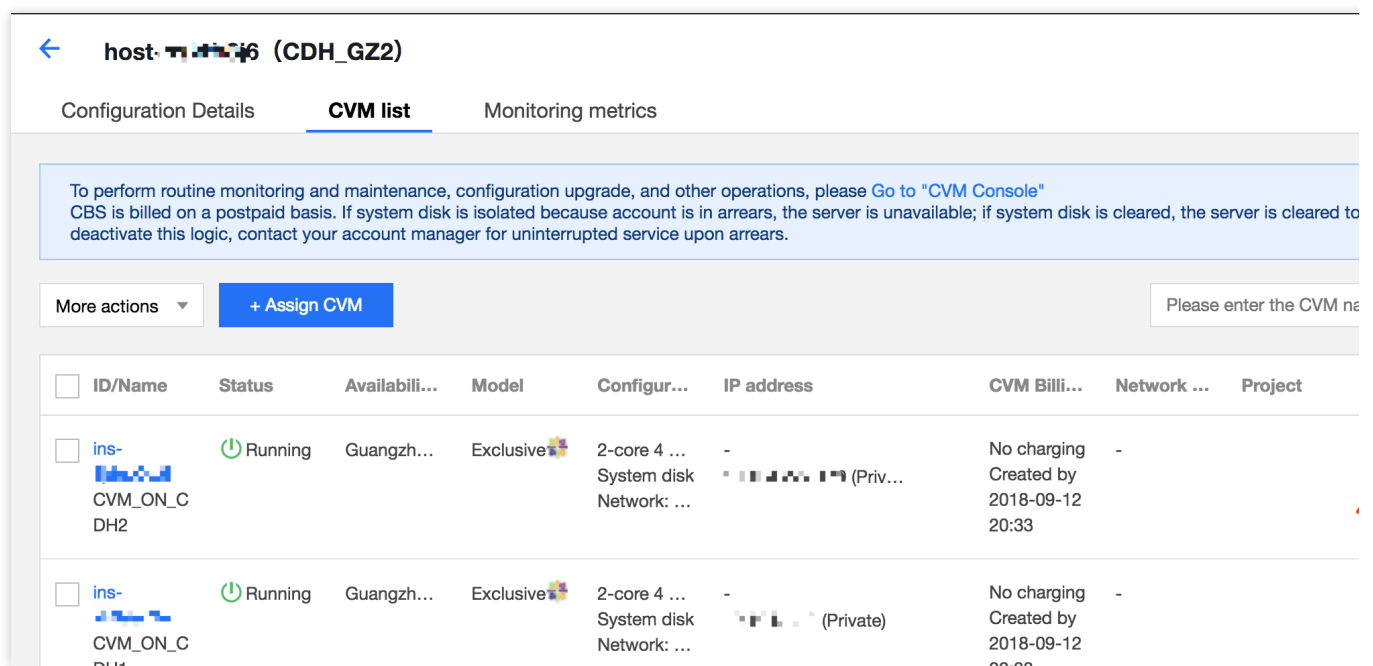
Terminating Dedicated CVMs

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**.



host- (CDH_GZ2)

Configuration Details **CVM list** Monitoring metrics

To perform routine monitoring and maintenance, configuration upgrade, and other operations, please [Go to "CVM Console"](#)
CBS is billed on a postpaid basis. If system disk is isolated because account is in arrears, the server is unavailable; if system disk is cleared, the server is cleared to deactivate this logic, contact your account manager for uninterrupted service upon arrears.

More actions [+ Assign CVM](#)

<input type="checkbox"/>	ID/Name	Status	Availabili...	Model	Configur...	IP address	CVM Billi...	Network ...	Project
<input type="checkbox"/>	ins- CVM_ON_C DH2	Running	Guangzh...	Exclusive	2-core 4 ... System disk Network: ...	- (Priv...	No charging Created by 2018-09-12 20:33	-	
<input type="checkbox"/>	ins- CVM_ON_C DH2	Running	Guangzh...	Exclusive	2-core 4 ... System disk Network: ...	- (Private)	No charging Created by 2018-09-12 20:33	-	

Terminating a dedicated CVM through an API

Use the `TerminateInstances` API to terminate a dedicated CVM instance. For more information, see [TerminateInstances](#).

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 migration. 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

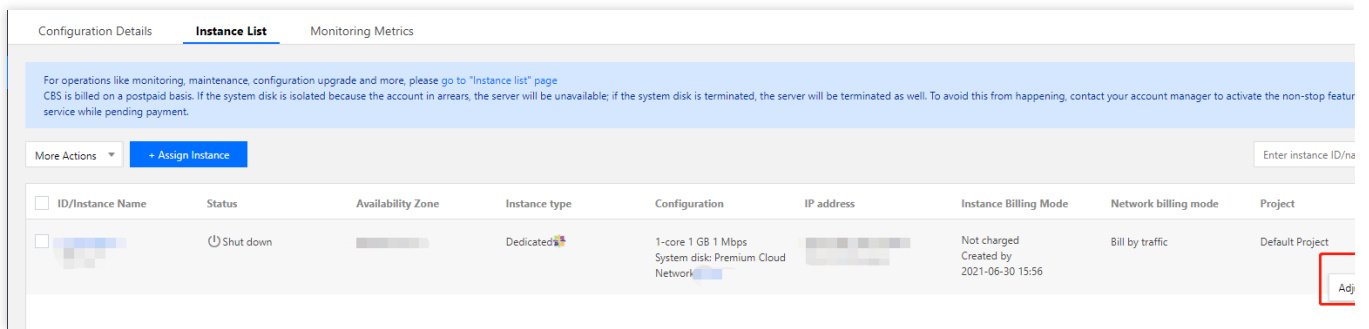
1. Log in to the CVM console and click [Dedicated Hosts](#) on the left sidebar.
2. Select the region where the CDH resides.
3. Click the **ID/Host Name** of the CDH that hosts the instance to migrate to enter the details page. Select the **Instance List** tab.

4. Migrate one or multiple instances in the list as needed:

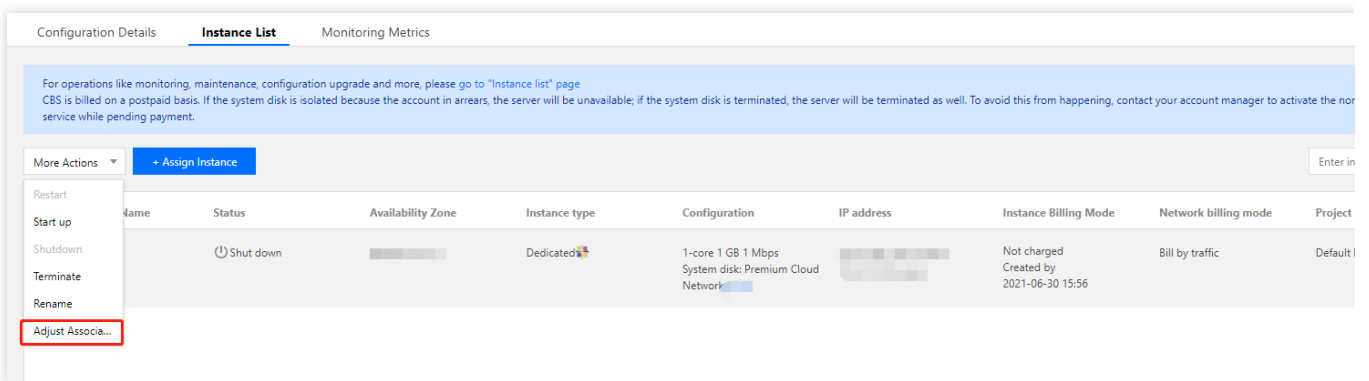
Migrating a single instance

Batch migrating instances

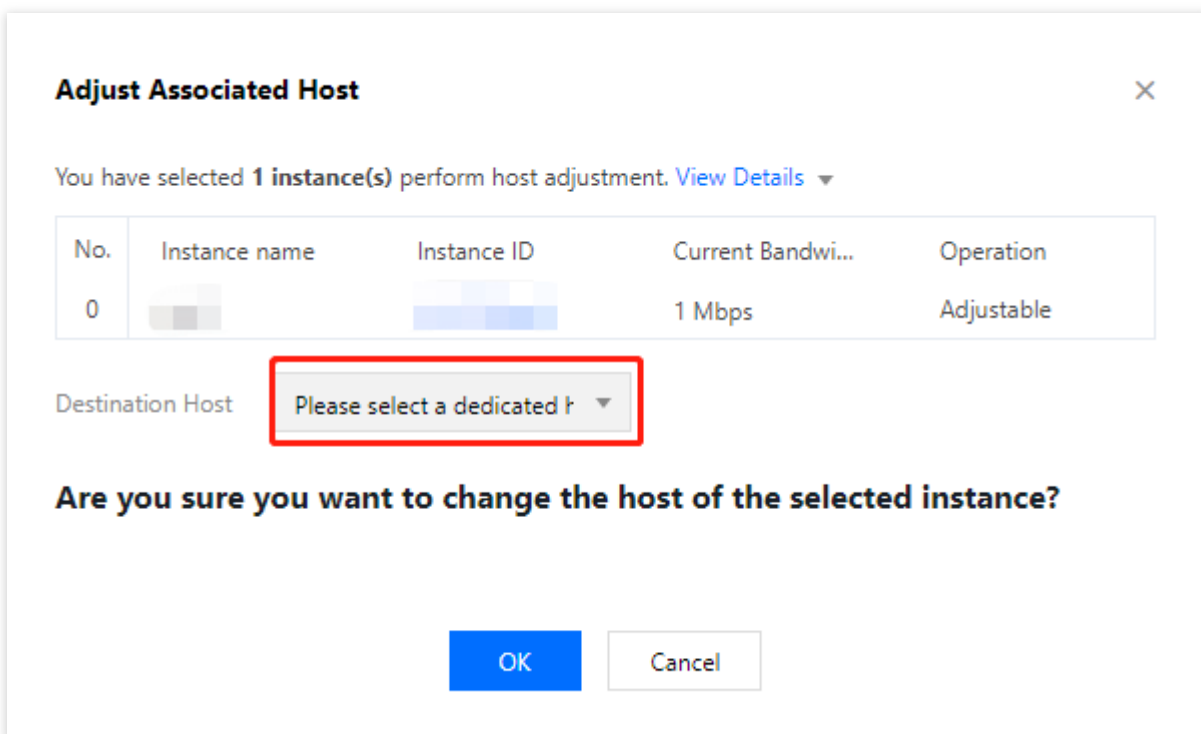
Select the instance to migrate, and click **More > Change Host** under the **Operation** column.



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

they are shut down.