

Cloud Virtual Desktop Operation Guide



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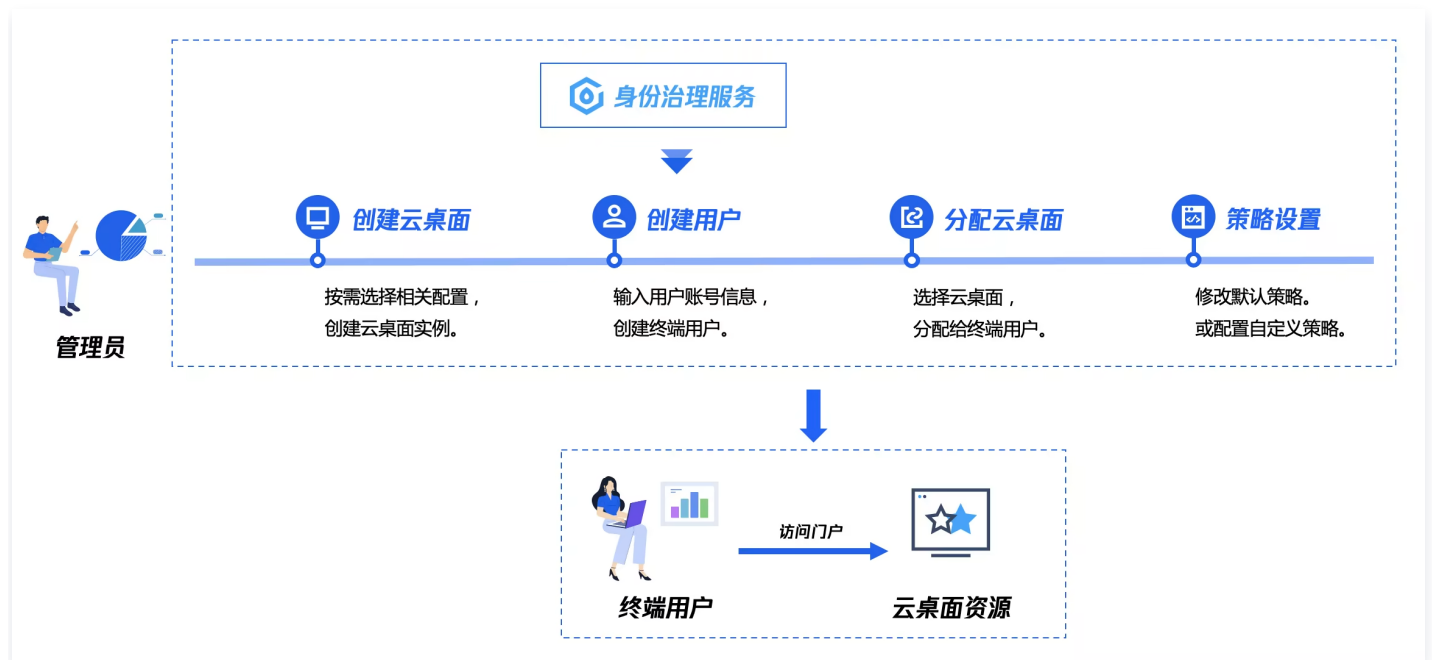
Admin

Operating Procedures

Last updated: 2024-10-18 17:15:00

This document describes how to manage CVD resources throughout the entire lifecycle in the console as the admin.

Search for the required CAM policy as needed, and click to complete policy association.



Process Description

1. Please plan accordingly based on your business needs, and create a CVD instance in the console. For specific steps, please refer to [Purchase CVD](#).
2. You need to create users or batch import users in Tencent Cloud IDaaS according to the user planning situation. For specific steps, please refer to [User Management](#).
3. You need to assign the already created CVD resources to end users. For specific steps, please refer to [Bind User](#).
4. You can plan your CVD policy according to business needs, set the Default Policy or create a Custom Policy in Policy Management. For specific steps, please refer to [Policy Management](#).

CVD Overview

Last updated: 2024-10-18 17:15:10

CVD Overview shows you the basic usage of CVD. You can get an overview of CVD usage across different networks in this module.

Search for the required CAM policy as needed, and click to complete policy association.



Filtering desktops

You can filter your CVD desktops by region and network.

- Filter by region: Select a region ("All regions", "Beijing", "Shanghai", or "Guangzhou") to view corresponding CVDs.
- Filter by network: Filter CVDs based on the [VPC](#) information you have in the selected region.

Basic usage of CVD

After filtering through the selected area, the network **filtered**, the basic situation of the following CVD is displayed for you:

- Total desktops: The total number of desktops.
- Running: The number of CVD desktops that are running.
- In use: The number of CVDs being used by end users. CVD instances in this status cannot be reset. For actions like shutdown, restart, terminate, or return, please confirm with the end users first.
- Shut down: The number of CVD desktops that are currently shut down.
- Expire in 7 days: The number of CVD desktops that will expire in seven days.

List Information

The table on the overview page shows the information of VPCs that meet your filter conditions:

- Network ID and name.
- Subnet ID and name.

- IP address.
- Total number of CVDs.
- Number of unassigned CVDs.
- NAT network information.
- NAT network bandwidth information.

VPC Configuration

Last updated: 2024-10-18 17:15:22

Before creating a CVD, you need to select a [VPC VPC](#) to place the CVD resources in your dedicated cloud network space. This enhances the security of cloud-based CVD resources and meets the needs of different application scenarios.

By configuring the network for CVD based on VPC, it enables CVD to interact with other services or cloud products, allows public internet access to CVD, and supports cross VPC access for CVD.

VPC Network Creation

CVD needs to be used in conjunction with a VPC. Please prepare a Tencent Cloud VPC network that meets your requirements in advance. You can refer to the [VPC Creation Guide](#) to create your VPC. After a CVD is created, its associated VPC/subnet cannot be changed.

CVD access to other VPC resources

Peering connection

You can access another VPC with CVD through [Peering Connection](#) (Peering Connection). Peering Connection supports interconnectivity between VPCs of the same account as well as across different accounts. You can refer to the following link to create a Peering Connection for your CVD.

- [Intra-Account Peering Connection Creation](#)
- [Inter-Account Peering Connection Creation](#)

Cloud Connect Network

You can use [CCN](#) (Cloud Connect Network, CCN) to achieve CVD access to **two or more VPCs**. CCN supports interconnection between VPC instances under the same or different accounts. Refer to the following link for implementing CCN in your CVD.

- [Connecting Network Instances Under the Same Account](#)
- [Network Instance Interconnection Crossing Account](#)

CVD accesses the Internet through NAT Gateway

[NAT Gateway](#) is an IP Address Translation Service that can bind [EIP \(EIP\)](#) to provide CVDs within the VPC (VPC) with secure and high-performance Internet Access Service.

 **Note:**

When creating a NAT Gateway, please correctly select the associated VPC and configure routing rules to direct the subnet traffic to the NAT Gateway.

For the NAT Gateway configuration guide, please see:

- [NAT Gateway Quick Start](#)
- [Modifying NAT Gateway Configuration](#)
- [Managing Elastic IP for NAT Gateway](#)
- [Managing SNAT Rules](#)
- [Managing Port Forwarding Rules](#)
- [Configuring a Route Pointing to NAT Gateway](#)

Instance Management

Bind Users

Last updated: 2024-10-18 17:15:40

Overview

Assign CVD resources to End Users.

Directions

Separate User Binding

1. Enter [CVD Console](#).
2. In the Desktop list, select the CVD you need to operate. In the action bar on the right or the top action bar, click **Bind Users**.

Search for the required CAM policy as needed, and click to complete policy association.



3. On the left side of the "Desktop Bind Users" action bar, select personnel according to the department structure. After clicking **OK**, binding will be completed.

Note:

During the single binding process, you selected a CVD, so you need to select a person for binding.

Bulk binding users

1. Enter [CVD Console](#).

2. In the Desktop List, select multiple CVDs you need to operate. In the top action bar, click **Bind User**.
3. On the left side of the "Desktop Bind Users" action bar, select personnel according to the department structure. After clicking **OK**, binding will be completed.

 **Note:**

During the bulk binding process, the number of selected personnel must match the number of selected desktops.

Renewing CVD Instance

Last updated: 2024-10-18 17:15:50

Overview

For Annual and Monthly Subscription billing period CVD, implement CVD renew, and set the auto-renewal feature.

1. Enter [CVD Console](#).
2. In the desktop list, select the CVD you need to renew.
3. In the top or right operation bar, click **Renew**.
4. After selecting the renewal duration on the renewal page, click **OK** to renew the CVD.

Directions

Setting auto-renewal

1. Enter [CVD Console](#).
2. In the Desktop List, select the CVD you need to operate.
3. In the Operation bar on the right, click **More > Set Up Auto-Renewal**.
4. On the Set up Automatic Renewal Page, select Enable and click **OK** to set the CVD to auto-renew.

Searching for CVD Instance

Last updated: 2024-10-18 17:16:02

Overview

Typing keywords in the CVD Console allows for quick retrieval, finding the corresponding CVD ID/Name.

Directions

1. Enter [CVD Console](#).
2. In the search box, select instance attributes based on actual needs. Enter the content you need to search, click **Search** or click **enter key** to perform the search.

Search for the required CAM policy as needed, and click to complete policy association.

The screenshot displays the Tencent Cloud CVD Console interface. The top navigation bar includes the Tencent Cloud logo and menu items like '总览', '云产品', and '网站备案'. The left sidebar shows navigation options: '云桌面', '桌面列表', '镜像', '用户管理', and '策略管理'. The main content area is titled '桌面列表' and shows a search bar with the text '桌面名称: G14' highlighted in a red box. Below the search bar, there are buttons for '购买', '开机', '关机', '重启', '续费', '绑定用户', and '销毁/退还'. A table lists the search results, showing one instance with ID 'G14XLARGE', status '运行中', and specifications '图形G1_16核64G'. The table also includes columns for 'ID/名称', '运行状态', '用户姓名', '计费模式', '桌面规格', and '操作'. The bottom of the page shows pagination information: '共 1 条', '20 条 / 页', and '1 / 1 页'.

Starting up CVD Instance

Last updated: 2024-10-18 17:16:14

Overview

Use the CVD Console to execute the Booting operation for CVD.

Directions

Operate a single CVD instance

1. Enter [CVD Console](#).
2. Select the instance you want to operate, and in the action column on the right, click **More Instance Operations Booting**.

Search for the required CAM policy as needed, and click to complete policy association.



Manage multiple CVD instances

1. Enter [CVD Console](#).
2. Manage multiple CVD instances: Select all instances you need to manage. At the top of the list, click **Booting** to batch manage CVD instances.

Search for the required CAM policy as needed, and click to complete policy association.



The screenshot displays the Tencent Cloud console interface for managing Cloud Virtual Desktops. The '桌面列表' (Desktop List) section is active, showing a table of instances. The '开机' (Start) button is highlighted with a red box. The table contains one instance with the following details:

ID/名称	运行状态	用户姓名	计费模式	桌面规格	所属网络	IP地址	操作
odi- CVD	关机		按量计费 2022-04-28 18:49:10 创建	标准S1_4核8G	VPC: Default-VPC 子网: Default-Subnet		更多

Note:

After a pay-as-you-go instance is shut down, its compute resources will be released. You may fail to start the instance again. If this happens, try again or try later.

Shutting down CVD Instance

Last updated: 2024-10-18 17:16:25

Directions

Shutting down a single CVD instance

1. Enter [CVD Console](#).
2. Select the instance you need to operate on, then in the operation column on the right side, click **More > Instance Operations > Shut Down**.

Search for the required CAM policy as needed, and click to complete policy association.



Shut down multiple CVD instances

1. Enter [CVD Console](#).
2. Select all instances that need to be operated on. At the top of the list, click **Shut down** to batch operate the CVD instances shutdown.

Search for the required CAM policy as needed, and click to complete policy association.



3. Pay-as-you-go CVD supports pay-per-use for power on/off and will prompt relevant information when shutting down.

Search for the required CAM policy as needed, and click to complete policy association.

关机

您已选 3 台云桌面实例:

云桌面ID/名称	所属用户	备注
f0fpzl70		包年包月 不支持关机不收费
54zgqyyy	liu	按量付费 支持关机不收费
腾讯云桌面		按量付费 支持关机不收费

关机须知:

- 关机不收费实例进入已关机状态后, 不收取云桌面计算资源 (vCPU、内存、GPU) 费用, 仅收取云桌面存储资源 (系统盘、数据盘) 费用。
- 因实例关机后, 计算资源将进行释放, 所以再次启动此实例时可能会失败。此时, 您可以尝试再次启动, 或者换一个时间再次启动。

可能导致云桌面正在进行的数据将丢失, 请确保用户数据已经保存。关机后会增加用户连接云桌面实例时间。

Note:

After a pay-as-you-go instance is shut down, its compute resources will be released. You may fail to start the instance again. If this happens, try again or try later.

Restarting CVD Instance

Last updated: 2024-10-18 17:16:36

Overview

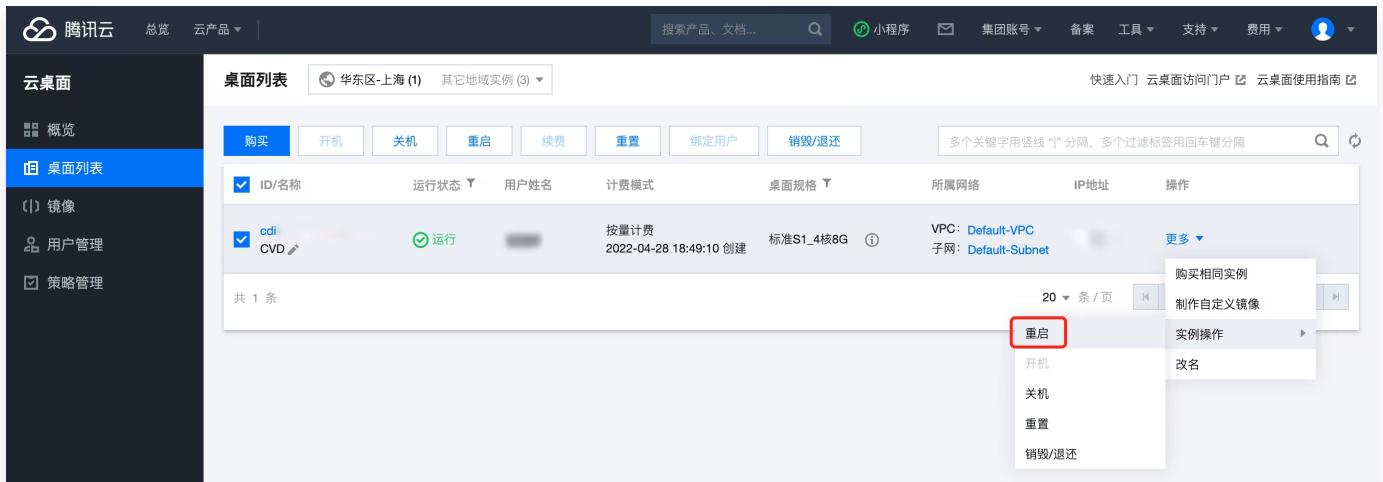
Restart CVD through the CVD Console.

Directions

Operate a single CVD instance

1. Enter [CVD Console](#).
2. Select the instance to operate, and in the right operation column, click **More > Instance Operations > Restart**.

Search for the required CAM policy as needed, and click to complete policy association.



Manage multiple CVD instances

1. Enter [CVD Console](#).
2. Select all the target instances, at the top of the list, click **Restart** to batch restart CVD instances.

Search for the required CAM policy as needed, and click to complete policy association.

The screenshot shows the Tencent Cloud Cloud Virtual Desktop console. The left sidebar contains navigation options: 概览, 桌面列表 (selected), 镜像, 用户管理, and 策略管理. The main area displays a table of desktop instances. The 'Restart' button is highlighted with a red box. The table has columns for ID/Name, Running Status, User Name, Billing Mode, Desktop Specification, Network, IP Address, and Actions. One instance is listed with ID 'cc-...', name 'CVD', status '运行', billing mode '按量计费', specification '标准S1_4核8G', and network 'VPC: Default-VPC, 子网: Default-Subnet'. The bottom of the table shows '共 1 条' and pagination '20 条 / 页 1 / 1 页'.

ID/名称	运行状态	用户姓名	计费模式	桌面规格	所属网络	IP地址	操作
cc-... CVD	运行		按量计费 2022-04-28 18:49:10 创建	标准S1_4核8G	VPC: Default-VPC 子网: Default-Subnet		更多

Renaming CVD Instance

Last updated: 2024-10-18 17:16:47

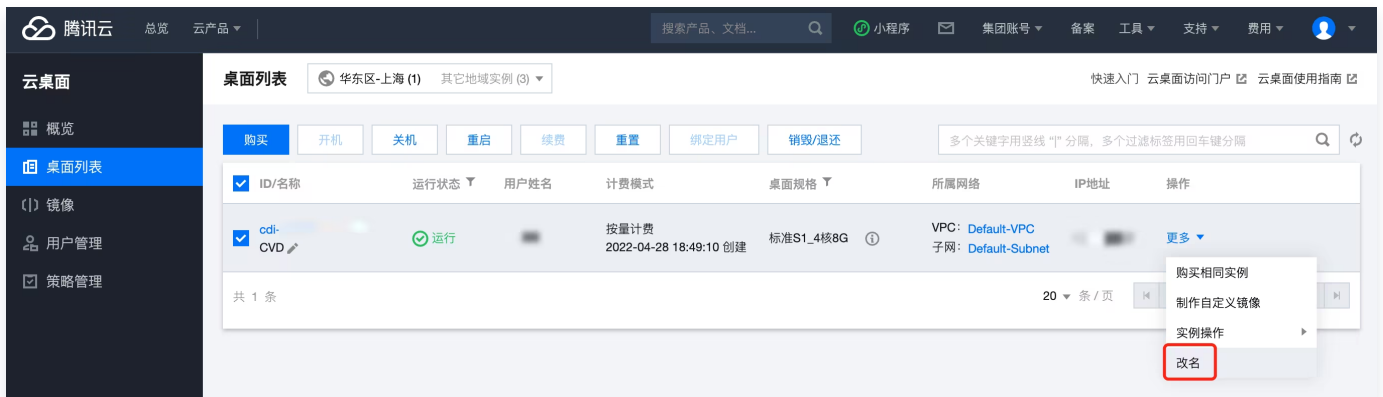
Overview

Rename the CVD through the CVD Console.

Directions

1. Enter [CVD Console](#).
2. In the desktop list, select the CVD instance that needs to be renamed, click **More** > **Rename** on the right.

Search for the required CAM policy as needed, and click to complete policy association.



3. In the pop-up "Rename" window, enter the new CVD name, click **OK** to complete the renaming.

Search for the required CAM policy as needed, and click to complete policy association.

The screenshot displays the Tencent Cloud console interface for Cloud Virtual Desktop (CVD) management. The main area shows a table of instances with columns for ID/Name, Running Status, User Name, Billing Mode, Desktop Size, and Actions. A modal dialog titled '改名' (Rename) is open, showing a table of selected instances and a text input field for the new name. The '确定' (Confirm) button is highlighted with a red box.

改名

您已选 1 台云桌面实例:

云桌面ID/名称	所属用户
[Redacted]	[Redacted]

名称修改:

你还可以输入28个字符

Note:

The name of the CVD will be displayed in the end-user access portal.

Resetting CVD Instance

Last updated: 2024-10-18 17:16:58

Overview

If you need to reinitialize the desktop system disk, you can reset the CVD. This article explains how to reset the CVD.

During the reset, the CVD unbinding feature is provided. You can choose to "reset to an unbound state" or "reset and maintain the current bound state" according to your needs

Note:

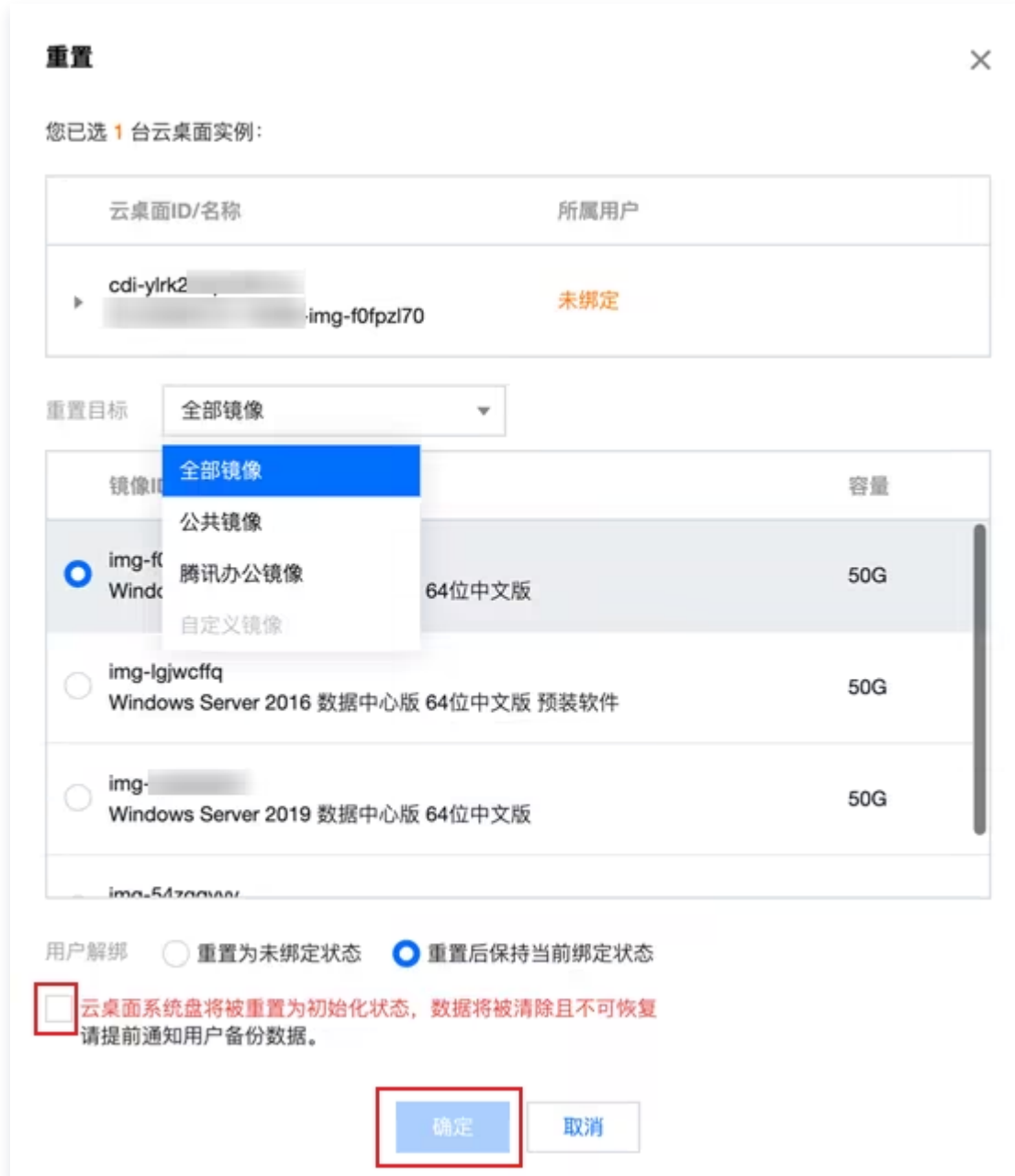
The system disk of the CVD will be reset to the initialization state of the designated image. Data will be cleared and irrecoverable.

Operation Steps

Reset a single CVD instance

1. Enter [CVD Console](#).
2. Select the instance to operate on, and in the operations column on the right, click **More > Instance Operations > Reset**.

Search for the required CAM policy as needed, and click to complete policy association.



Reset multiple CVD instances

1. Enter [CVD Console](#).
2. Select all instances that need to be reset, and at the top of the list, click **Reset** to batch reset the CVD instances.

Search for the required CAM policy as needed, and click to complete policy association.



ID/名称	运行状态	用户姓名	计费模式	桌面规格	所属网络	IP地址	操作
[Redacted]	运行	[Redacted]	包年包月 自动续费未开启 2021-12-31 16:23:36到期	标准S1_4核16G	VPC: Default-VPC 子网: Default-Subnet	10.11.0.19	绑定用户 续费 更多
54zgqyyy	运行	[Redacted]	按量计费 2021-11-23 15:28:18 创建	标准S1_4核16G	VPC: Default-VPC 子网: Default-Subnet	10.11.0.94	更多
腾讯云桌面	运行	[Redacted]	按量计费 2021-11-11 14:28:22 创建	图形G1_16核64G	VPC: Default-VPC 子网: Default-Subnet	10.11.0.33	更多

Must-Knows

- The CVD system disk will be reset to its initial state, and all data will be cleared and cannot be recovered. Please inform users to back up their data in advance.

Note:

The Data Disk (if any) is not affected.

- Standard and Graphical CVD images are different and cannot perform Batch Reset simultaneously.
- The system disk snapshots generated by this CVD instance will be automatically deleted.

Terminating/Returning CVD Instance

Last updated: 2024-10-18 17:17:08

Overview

Terminating a CVD instance includes the following methods:

- **Manual Deletion:** For unexpired annual and monthly subscription CVD and pay-per-use CVD, you can choose manual deletion for a refund.
- **Auto-destruction due to expiration/overdue payment:** For annual and monthly subscription CVD, the instance will be automatically destroyed and released upon expiration.

Note:

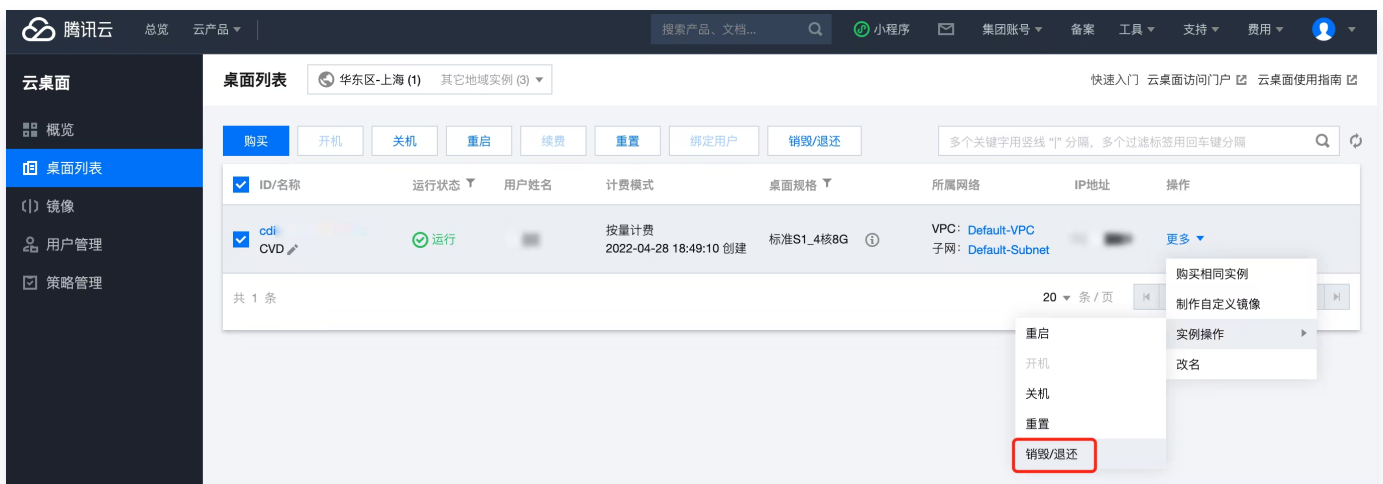
Before terminating/returning the CVD, please notify users to back up their data in advance.

Directions

Operate a single CVD

1. Enter [CVD Console](#).
2. Select the desktop you need to operate, and in the operation bar on the right, click **More > Instance Operation > Destroy/Return**.

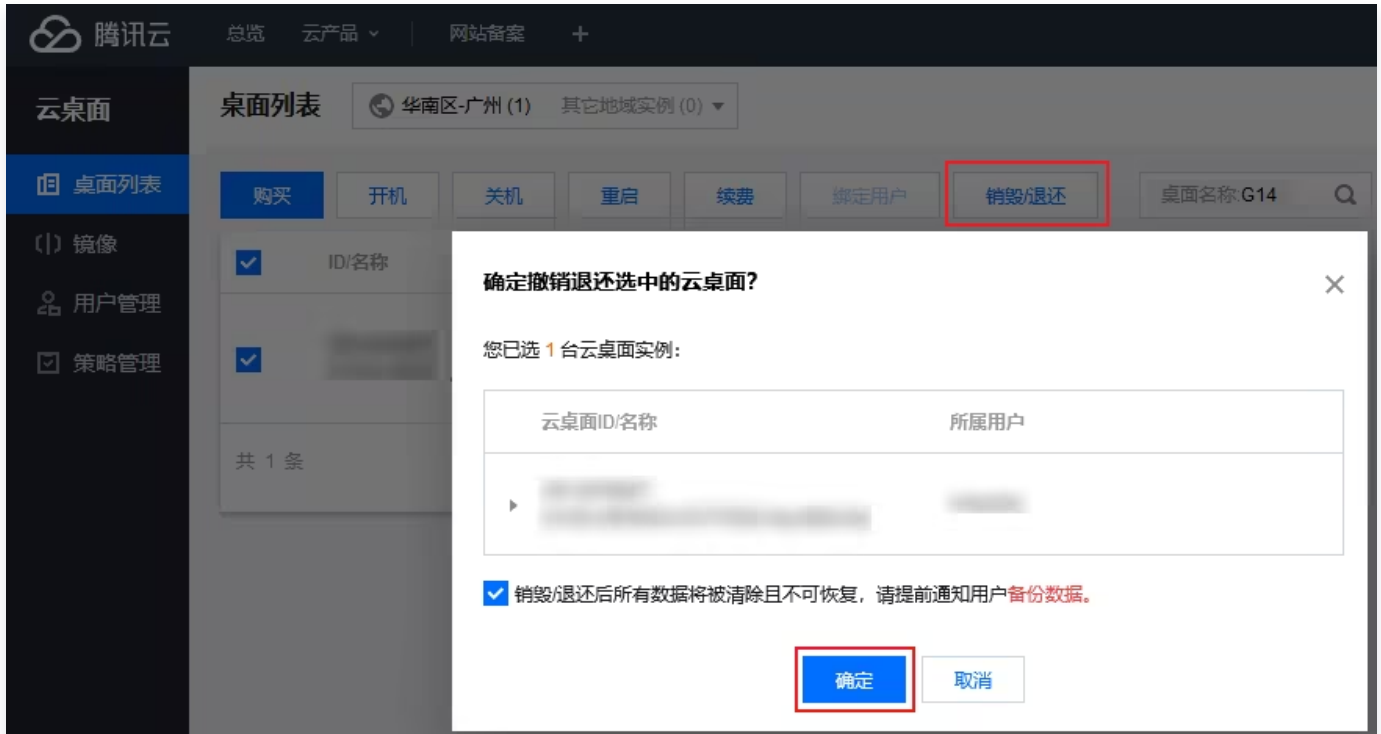
Search for the required CAM policy as needed, and click to complete policy association.



Operate multiple CVD

1. Enter [CVD Console](#).
2. Select all the target desktops, click **Destroy/Return** at the top of the list to batch operate the CVDs.

Search for the required CAM policy as needed, and click to complete policy association.



- The destroy/return processes for annual and monthly subscription CVDs are different from pay-per-use CVDs. They cannot be destroyed/returned simultaneously. Please proceed in batches.

Note:

A single batch destroy/return operation is limited to 10 CVDs.

CVD Snapshot

Last updated: 2024-10-18 17:17:21

Overview

A snapshot is a file that contains the data of a specified CVD instance at a specified time point, which can be used for data backup and recovery. CVD provides the snapshot feature for system disks and data disks to mitigate data losses caused by misoperations by end users. The current version creates snapshots through "automatic snapshots", meaning snapshots of both the system disk and data disk in each CVD instance are created daily between 2:00 am and 4:00 am. These snapshots are displayed in the snapshot list and their creation does not affect the normal use of CVD by customers.

Directions

Rolling back a snapshot

When a data error occurs or data is lost, you can roll back the snapshot data, so that data in the CVD instance can be restored to the status when the snapshot is created.

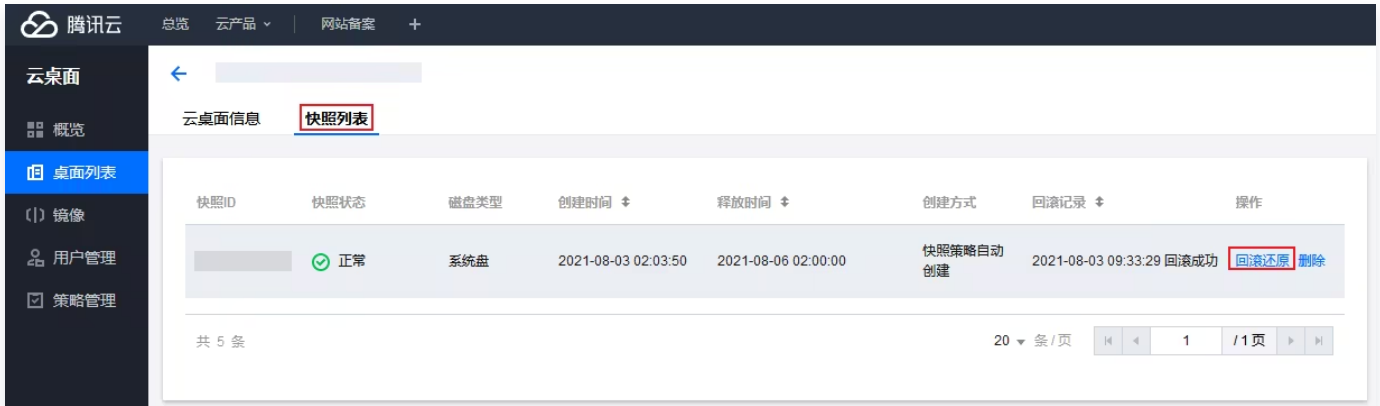
1. Enter [CVD Console](#).
2. In the desktop list, select the CVD that needs to be rolled back, click on the left **CVD ID** to enter the CVD details page.

Search for the required CAM policy as needed, and click to complete policy association.



3. On the CVD details page, click on the right side of the top menu to switch to the **snapshot list** page. Select the snapshot item that needs to be rolled back, and in the operation column on the right, click **rollback**.

Search for the required CAM policy as needed, and click to complete policy association.



4. Perform a second confirmation for rollback. The rollback will clear the current CVD data. After reading the risk warning, select the **Force shutdown** switch, and click **Confirm** at the bottom.

Search for the required CAM policy as needed, and click to complete policy association.

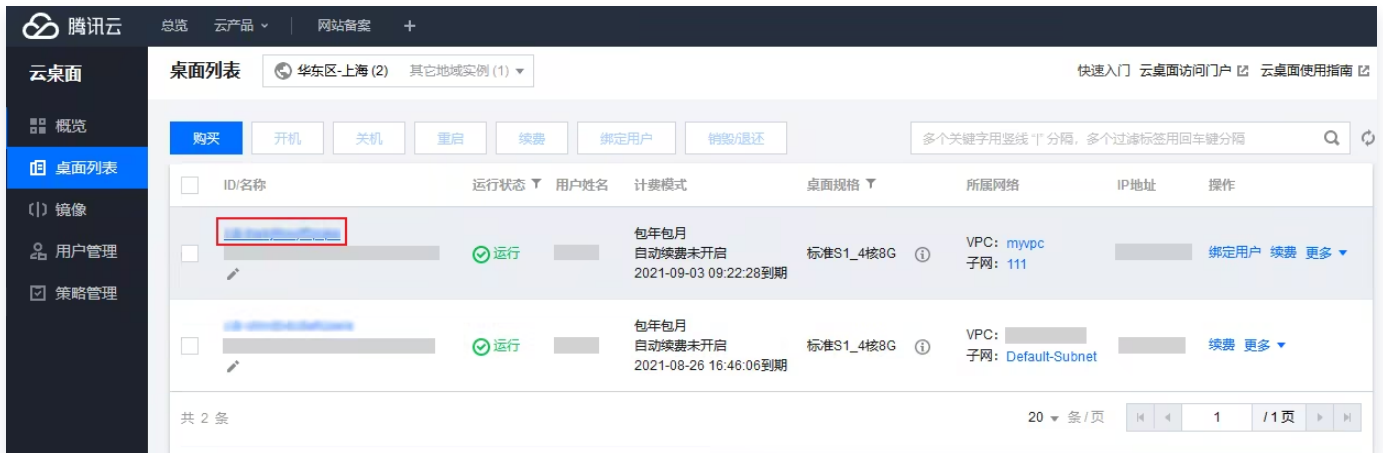


Deleting a saved snapshot

Snapshots are deleted automatically after three days. If you are sure that certain snapshots are no longer needed, you can manually delete them to release virtual resources.

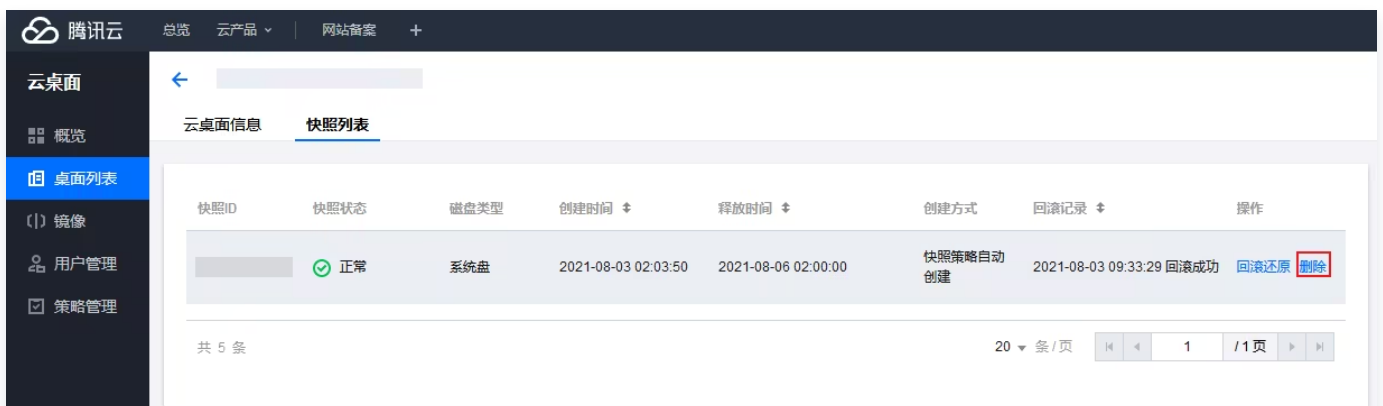
1. Enter [CVD Console](#).
2. In the desktop list, select the CVD for which you need to delete the snapshot, click on the left-side **CVD ID** to enter the CVD details page.

Search for the required CAM policy as needed, and click to complete policy association.



3. In the CVD details page, click on the right side of the top menu **Snapshot List** to switch to the snapshot list page. Select the snapshot item to be rolled back, and in the right-side operation bar click **Delete**.

Search for the required CAM policy as needed, and click to complete policy association.



4. Deleted snapshots cannot be recovered. If you are sure about deleting, select **Deleted snapshots cannot be recovered**. Please ask the user to back up their data first. and then click **Confirm** below.

Search for the required CAM policy as needed, and click to complete policy association.

The screenshot shows the Tencent Cloud console interface. The left sidebar contains navigation options: 云桌面 (Cloud Desktop), 概览 (Overview), 桌面列表 (Desktop List), 镜像 (Images), 用户管理 (User Management), and 策略管理 (Policy Management). The main content area is titled '云桌面信息' (Cloud Desktop Information) and '快照列表' (Snapshot List). A modal dialog titled '确定删除快照?' (Confirm Delete Snapshot?) is displayed. The dialog contains a table with the following data:

快照ID	磁盘类型	创建时间	关联云桌面ID/...	云桌面状态	所属用户
[Redacted]	系统盘	2021-08-03 02:03:50	[Redacted]	运行	[Redacted]

Below the table, there is a checkbox with a checkmark and the text: 删除后快照资源不可恢复, 请提前通知终端用户备份数据。 (After deletion, snapshot resources cannot be recovered, please notify terminal users to back up data in advance.) At the bottom of the dialog, there are two buttons: '确定' (Confirm) and '取消' (Cancel). The '确定' button is highlighted with a red box.

Unbind Users

Last updated: 2024-10-18 17:17:34

Overview

Unbind the CVD of an already bound user. After unbinding, the CVD status updates to Unbound, and you can rebind this CVD to another user or the original user.

Note:

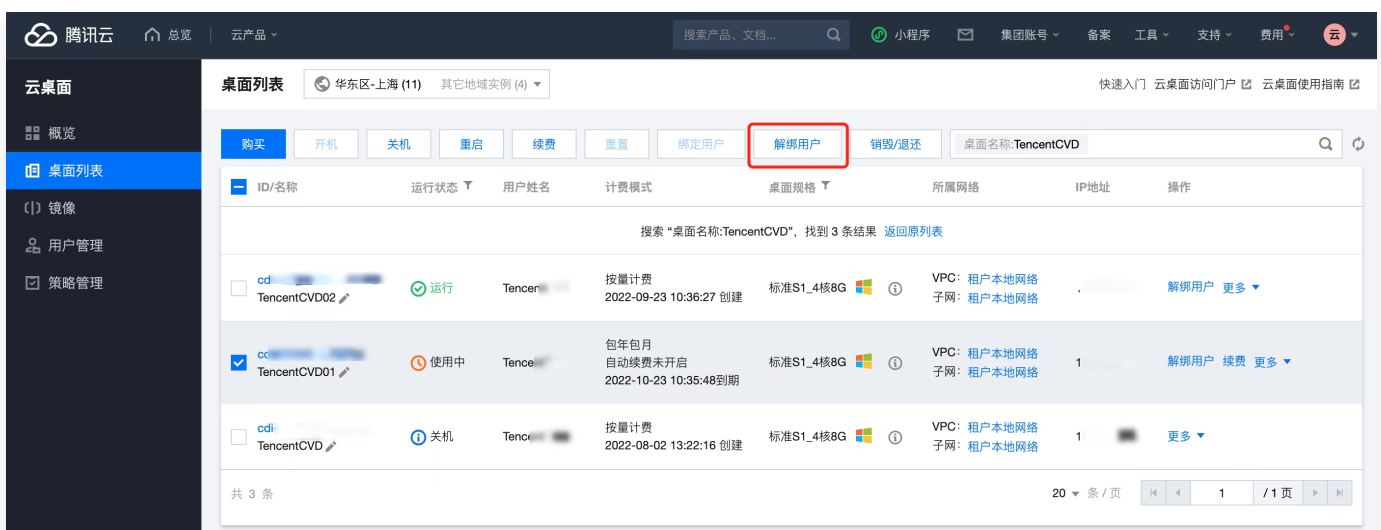
- The operation to unbind users can only be performed on CVDs that are in **Running** or **In Use** status.
- If the current CVD is in **In Use** state, the user's active CVD session will be logged out after unbind operation. Please inform users to backup their data in advance.
- After unbinding a user from a CVD, the original user will no longer be able to log in to that CVD. Please inform users to backup their data in advance.

Directions

Unbind user individually

1. Enter [CVD Console](#).
2. In the desktop list, select the CVD you need to operate, then click **Unbind User** in the top action bar.

Search for the required CAM policy as needed, and click to complete policy association.



The screenshot shows the Tencent Cloud CVD Console interface. The top navigation bar includes the Tencent Cloud logo, home, overview, and product dropdown. The main content area displays a table of desktops. The 'Unbind User' button is highlighted with a red box. The table contains the following data:

ID/名称	运行状态	用户姓名	计费模式	桌面规格	所属网络	IP地址	操作
cdi- TencentCVD02	运行	Tence	按量计费 2022-09-23 10:36:27 创建	标准S1_4核8G	VPC: 租户本地网络 子网: 租户本地网络		解绑用户 更多
cc- TencentCVD01	使用中	Tence	包年包月 自动续费未开启 2022-10-23 10:35:48到期	标准S1_4核8G	VPC: 租户本地网络 子网: 租户本地网络	1	解绑用户 续费 更多
cdi- TencentCVD	关机	Tence	按量计费 2022-08-02 13:22:16 创建	标准S1_4核8G	VPC: 租户本地网络 子网: 租户本地网络	1	更多

3. In the Unbind Users pop-up window, confirm the CVD and associated users to unbind, check the protocol, and click **Confirm** to unbind.

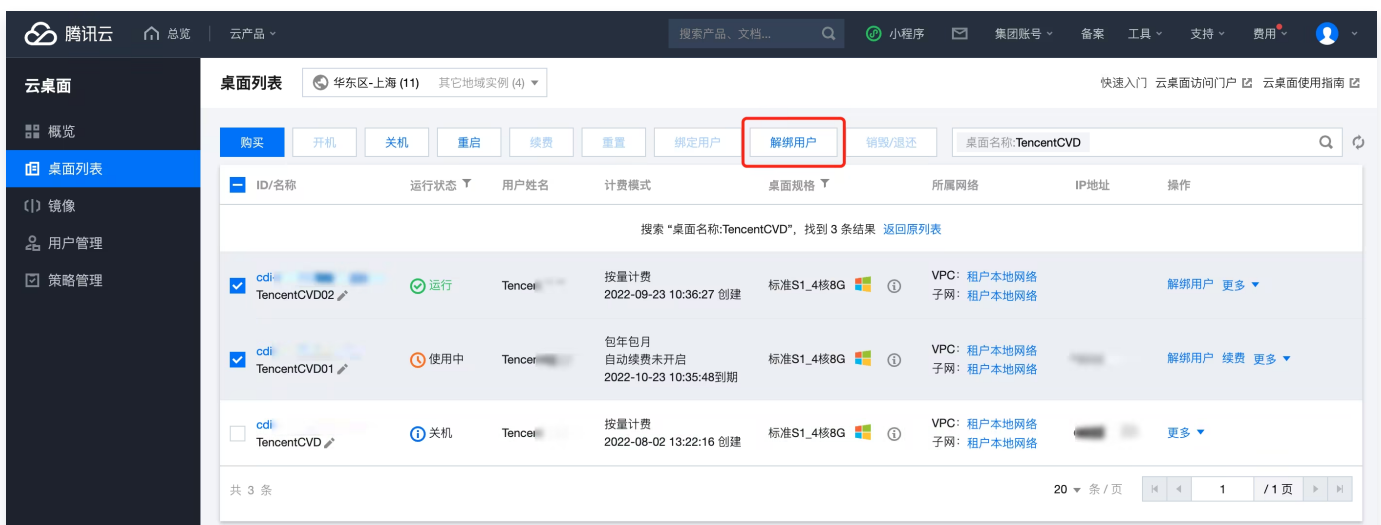
Search for the required CAM policy as needed, and click to complete policy association.



Batch Unbind Users

1. Enter [CVD Console](#).
2. In the desktop list, select the multiple CVDs you need to operate. In the upper operation bar, click **Unbind User**.

Search for the required CAM policy as needed, and click to complete policy association.



3. In the Unbind Users pop-up window, confirm the CVD and associated users to unbind, check the protocol, and click **Confirm** to unbind.

Search for the required CAM policy as needed, and click to complete policy association.

桌面解绑用户



您已选 2 台云桌面实例：

云桌面ID/名称	所属用户	状态	到期时间
cdi- TencentCVD02	Tenc	运行	-
cdi TencentCVD01	Tencer	使用中	2022-10-23 10:35:48

解绑完成后当前用户将不可再登录到这台云桌面，请提前通知用户备份数据。当前用户在该云桌面上所有的数据会保留，如有需要请手动删除或使用重置解绑功能。

确定

取消

Disk Expansion

Last updated: 2026-03-20 15:36:41

Overview

CVD disks are scalable cloud storage devices. Users can expand their size anytime after creating a CVD disk to increase storage space without losing the original data on the disk.

After the CVD disk expansion is completed, Windows system CVDs will automatically allocate the expanded capacity to the existing partition. In Linux systems, manual file system expansion within the system is required. For the steps, please refer to [Linux System CVD File System Expansion](#).

Limits of Operation

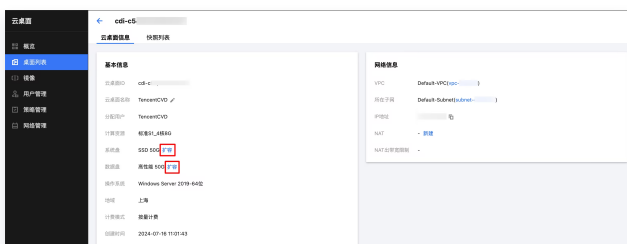
- CVD disks only support expansion, not reduction.
- Only CVD disks mounted on CVD instances within the normal lifecycle support expansion. CVD disks on isolated instances do not support expansion.
- CVD disk expansion is not supported when the CVD instance is in shutdown status, starting, shutting down, restarting, or creating a custom Definition image.

Expand CVD Disk

1. Enter the [CVD Console Desktop List](#).
2. Click on the CVD ID of the disk you need to scale out.



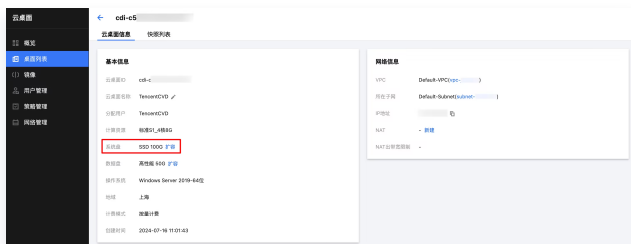
3. Based on actual needs, click the expansion button corresponding to the system disk or data disk.



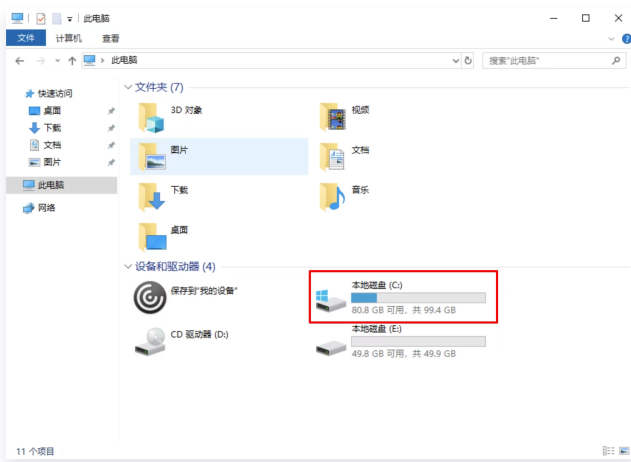
4. In the CVD disk expansion pop-up window, confirm the CVD information, current capacity, adjust the target capacity, confirm the fees, and click **OK** to scale out.



5. After scaling out, you can view the expanded disk size on the CVD instance details page.



6. For Windows operating systems, you can log in to the CVD to confirm the expanded capacity size within the CVD system.



Expanding Linux CVD File System

In the Linux system, after executing [expanding the CVD disk](#) in the CVD console, you need to manually expand the file system within the system. You can refer to the following steps.

1. In the Linux system Terminal, enter the following command to switch to administrator mode.

```
sudo su -
```

```
root@lr: ~
File Edit View Search Terminal Help
cvd-@lr: ~$ sudo su -
root@lr: ~#
```

2. Run the following command to query partitions of the CVD disk.

```
fdisk -l
```

The return result is shown in the figure below, indicating that the `/dev/vda` disk capacity is 100GB, including the MBR partition `/dev/vda1`, with a capacity of 50GB.

```
root@lr: ~# fdisk -l
Disk /dev/vda: 100 GiB, 107374182400 bytes, 209715200 sectors
Units: sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disklabel type: dos
Disk identifier: 0x3fa1d255

Device     Boot Start      End  Sectors  Size Id Type
/dev/vda1 *    2048 104857568 104855519    50G 83 Linux

Disk /dev/vdb: 50 GiB, 53687091200 bytes, 104857600 sectors
Units: sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
root@lr: ~#
```

3. Run the following command to confirm the file system that has a partition.

```
df -TH
```

The return results are as shown in the following figure, indicating that the file system type of `/dev/vda1` is ext4.

```
root@lr: ~# df -TH
Filesystem      Type      Size  Used Avail Use% Mounted on
udev            devtmpfs  3.9G   0  3.9G   0% /dev
tmpfs           tmpfs     783M  14M  770M   2% /run
/dev/vda1       ext4      53G   8.1G  43G  16% /
tmpfs           tmpfs     4.0G   1.7M  4.0G   1% /dev/shm
tmpfs           tmpfs     5.3M   0  5.3M   0% /run/lock
tmpfs           tmpfs     4.0G   0  4.0G   0% /sys/fs/cgroup
/dev/vdb        ext4      53G   25k  50G   1% /mnt/datadisk0
tmpfs           tmpfs     783M   17k  783M   1% /run/user/127
127.0.0.1:/    nfs       21G   11G  11G  50% /ctxmnt
tmpfs           tmpfs     783M   50k  783M   1% /run/user/16777217
tmpfs           tmpfs     783M   0  783M   0% /run/user/0
```

4. Run the following command to install the growpart tool.

```
apt-get install -y cloud-guest-utils
```

5. Execute the following command to use the growpart tool to extend the partition `/dev/vda 1`. A space must be placed between `/dev/vda` and `1` in the command.

```
growpart /dev/vda 1
```

The returned result is as shown in the following figure:

```
root@lr :~# growpart /dev/vda 1
CHANGED: partition=1 start=2048 old: size=104855519 end=104857567 new: size=209713119,end=209715167
```

6. Run the following command to scale out the ext4 file system.

```
resize2fs /dev/vda1
```

The returned result is as shown in the following figure:

```
root@lr :~# resize2fs /dev/vda1
resize2fs 1.44.1 (24-Mar-2018)
Filesystem at /dev/vda1 is mounted on /; on-line resizing required
old_desc_blocks = 7, new_desc_blocks = 13
The filesystem on /dev/vda1 is now 26214139 (4k) blocks long.
```

7. Run the following command to view the scaling-out result.

```
df -TH
```

The following results indicate a successful scale-out.

```
root@lr :~# df -TH
Filesystem      Type      Size  Used Avail Use% Mounted on
udev            devtmpfs  3.9G   0  3.9G   0% /dev
tmpfs           tmpfs     783M  14M  770M   2% /run
/dev/vda1       ext4      106G   8.1G  94G    8% /
tmpfs           tmpfs     4.0G   1.7M  4.0G   1% /dev/shm
tmpfs           tmpfs     5.3M   0  5.3M   0% /run/lock
tmpfs           tmpfs     4.0G   0  4.0G   0% /sys/fs/cgroup
/dev/vdb        ext4       53G   25k   50G   1% /mnt/datadisk0
tmpfs           tmpfs     783M   17k  783M   1% /run/user/127
127.0.0.1:/    nfs        21G   11G   11G   50% /ctxmnt
tmpfs           tmpfs     783M   50k  783M   1% /run/user/16777217
tmpfs           tmpfs     783M   0  783M   0% /run/user/0
```

After the successful scale-out, check the data integrity and observe whether the business in the CVD runs normally.

Policy Management

Last updated: 2024-10-18 17:18:30

Creating a Custom Policy

1. Enter the CVD Console, go to the Policy Management page, and click **Create Custom Definition Policy**.

Search for the required CAM policy as needed, and click to complete policy association.



2. Configure the following information as prompted by the page:

Search for the required CAM policy as needed, and click to complete policy association.

创建策略

策略名称 (必填)

策略描述 (选填)

文件重定向 读写 只读 禁用

剪切重定向 开启云桌面到客户端 开启客户端到云桌面 双向开启 禁用

外设重定向 USB 端口

水印设置

水印显示 云桌面IP地址 客户端IP地址 连接时间


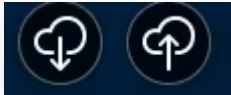
显示方式 平铺 居中

生效用户

用户名	姓名	所属组	操作
空列表			

共 0 条 10 条/页 1 / 1 页

Configuration Item	Description
Policy	Used to distinguish CVD usage policies.

name	
Policy Description	Optional, you can use descriptions to help further differentiate policies.
File Redirect	<p>Set CVD's permissions for accessing local terminal files. Under the client access method, the local terminal's disk will be mapped to CVD :</p> <p>Search for the required CAM policy as needed, and click to complete policy association.</p>  <p>In browser access mode, transfer files between the local terminal and CVD through Upload and Download:</p> <p>Search for the required CAM policy as needed, and click to complete policy association.</p>  <ul style="list-style-type: none"> • Read/Write: Allows reading and modifying files within the mapped disk, adding and deleting files within the mapped disk, and allows Upload and Download in browser access mode. • Read-Only: Allows reading files within the mapped disk and Upload in browser access mode. • Disable: Disables disk mapping and prohibits Upload and Download.
Cut Redirect	<p>Set bidirectional or unidirectional copy permissions between CVD and the local system.</p> <p>Through the clipboard, text, files, images, etc., can be copied. The clipboard capabilities vary with different access methods. For example, files can be copied when accessing CVD through the Windows client, but not in browser mode.</p> <ul style="list-style-type: none"> • Enable CVD to Client: Allows copying content from CVD to the local terminal. • Enable Client to CVD: Allows copying content from the local terminal to CVD.

	<ul style="list-style-type: none"> • Enable Bidirectional: Allows bidirectional copying of content between the local terminal and CVD. • Disable: Disables the ability to copy via the clipboard.
Peripheral Redirection	Set whether to enable the peripheral redirection feature. Once enabled, USB storage devices and COM port peripheral devices connected to the local terminal can be used on the CVD.
Watermark Settings	Specifies the watermark display settings under this policy. You can set the watermark content and display mode.
Effective Users	When creating a Custom Policy, you can specify the effective users for the policy. The policy will be applied to all CVD instances of these users.

3. After confirming the information is correct, click **Save**. The policy will take effect the next time the end user logs in.

Deleting Policy

1. Enter the [CVD Console](#), select the policy you need to operate on the Policy Management Page, and then click **Delete Policy** on the right or top operation bar.

Search for the required CAM policy as needed, and click to complete policy association.



2. You can delete it after second confirmation.

Modifying policy

Enter the [CVD Console](#), select the policy you need to operate on the Policy Management Page, and then click **Modify** on the right operation bar to edit it.

Search for the required CAM policy as needed, and click to complete policy association.



The screenshot shows the Tencent Cloud console interface for Policy Management. The left sidebar contains navigation options: 云桌面 (Cloud Desktop), 桌面列表 (Desktop List), 镜像 (Images), 用户管理 (User Management), and 策略管理 (Policy Management). The main content area is titled 策略管理 (Policy Management) and includes a 快速入门 (Quick Start) link. Below the title are two buttons: 创建自定义策略 (Create Custom Policy) and 删除策略 (Delete Policy). A table lists the policies, with the '默认策略' (Default Policy) row highlighted. The '操作' (Operations) column for this row contains a '修改' (Modify) button, which is highlighted with a red box, and a '删除策略' (Delete Policy) link.

策略名称	策略描述	生效用户数	操作
<input type="checkbox"/> 默认策略	默认	9	修改 删除策略

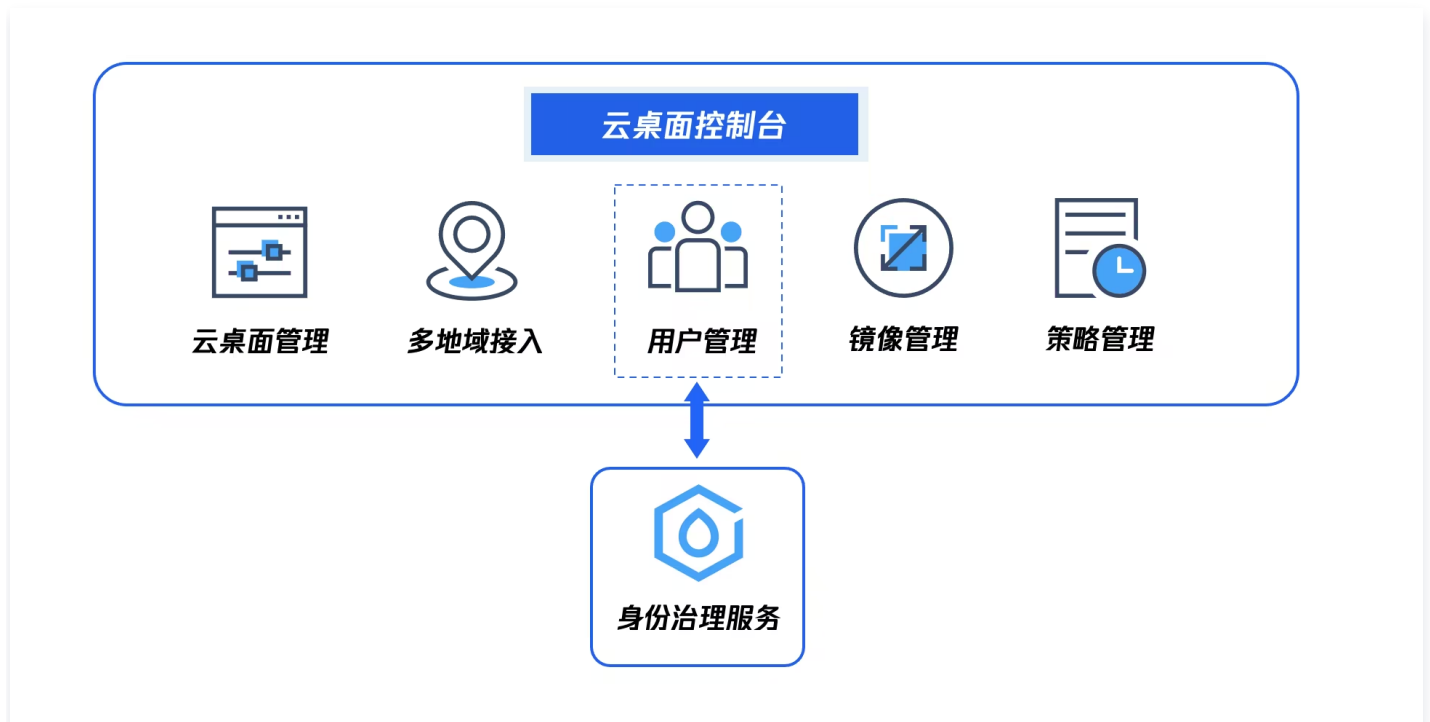
User Management

Last updated: 2024-10-18 17:18:41

Feature Overview

Enabled by Tencent Cloud IDaaS, the user management feature allows you to set up an account system for CVD end users. It offers quick account synchronization, multi-source authentication management, secure login configuration, and other services.

Search for the required CAM policy as needed, and click to complete policy association.



View Department and Personnel Structure

You can view your departmental structure and relevant CVD personnel usage information on the main user management interface. Including username, full name, phone number, email, account status, and CVD usage policy. The user management feature is provided by Tencent Cloud IDaaS.

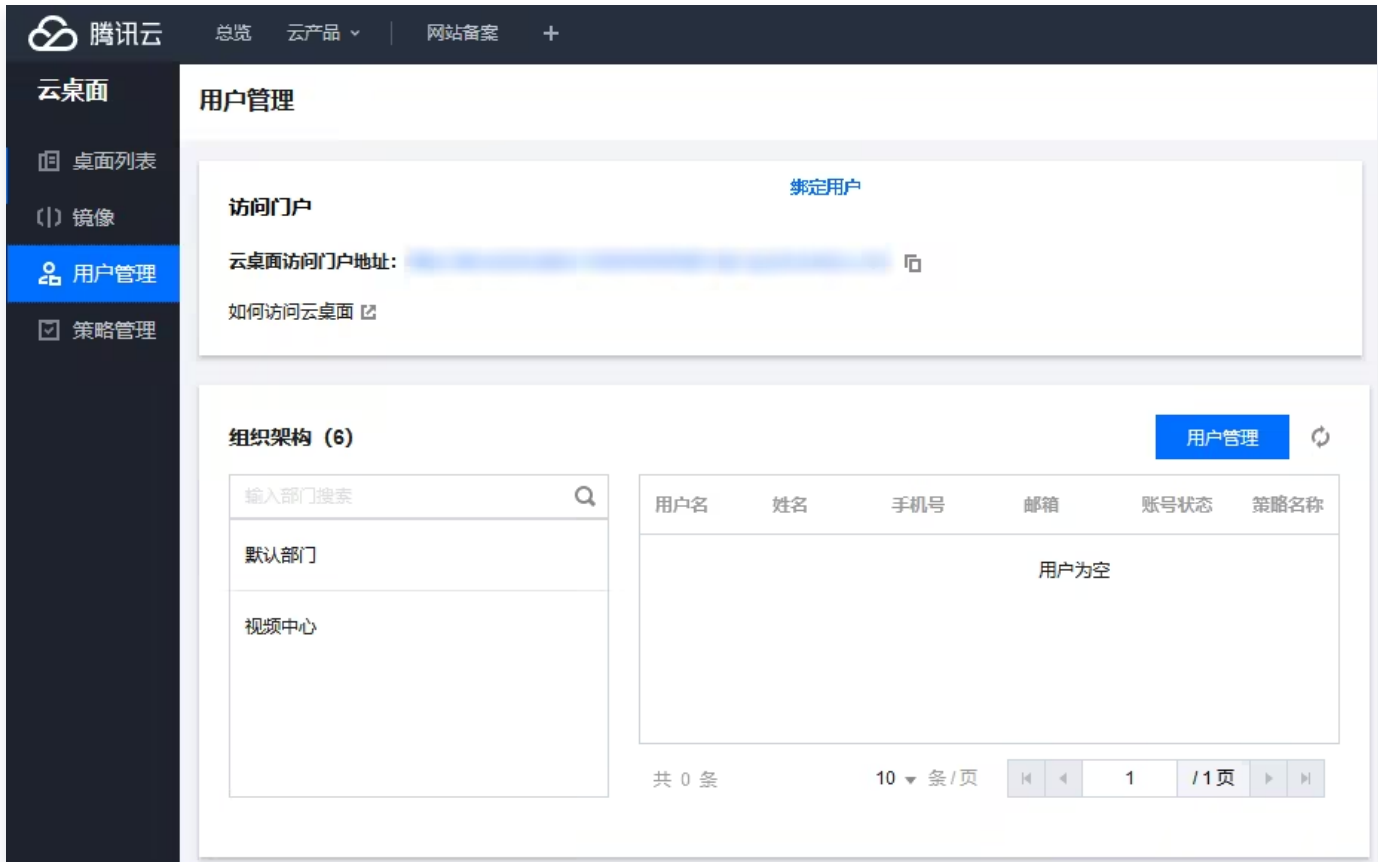
Note:
The user list does not display users with "Resigned" status or user administrator roles.

Creating Personnel

1. Enter [CVD Console](#).

2. Enter the main user management interface and click **User Management** to redirect to the Tencent Cloud IDaaS interface. The personnel creation service is provided by Tencent Cloud IDaaS.

Search for the required CAM policy as needed, and click to complete policy association.



3. Click **Created By** and fill in the following information according to the form content.

Form items	Description	Required or Not
Name	Name: The real name of the CVD user	Yes
User name	Username: The CVD user's login account	Yes
Primary email	Used for the CVD user to receive CVD activation emails, the email address must be correct	Yes
Secondary	Other email information of the end user	No

Primary Email		
Mobile number	Used for CVD users to receive SMS	No
Department	The superior department of the CVD user, which facilitates the management of the CVD user	Yes
Part-time Department	The part-time department of the CVD user	No
Primary User Group	Fill in according to the actual situation	No
Supervisor	Fill in according to the actual situation	No
Employee Number	Fill in according to the actual situation	No
Sort Value	Control the display order of personnel, can be set according to the actual situation	No
Activation Method	You can choose 'Do not activate temporarily' in the activation method or send a link to the user's primary email. By default, the link is sent to the user's primary email	No

4. After confirming the information, you can click **Confirm** or **Next** to continue creating personnel until you finish, then click **OK**.

5. Go back to the CVD Console and refresh to see the created users.

Creating a department

1. Enter [CVD Console](#).
2. Enter the main user management interface and click **User Management** to redirect to the Tencent Cloud IDaaS interface. **The personnel creation service is provided by Tencent Cloud IDaaS.**
3. Click **Create Department**, fill in the department name and information of the superior department, and select the department leader.
4. After confirming the information, you can click **Confirm** or **Next** to continue creating departments until you finish, then click **OK**.
5. Go back to the CVD Console and refresh to see the created departments.

CVD User Management Data Cleanup Instructions

The CVD product will periodically perform data cleanup in user management, targeting customers who have not used CVD products for 180 consecutive days or more. The cleanup includes users, departments, authentication sources, and other configuration information created in the CVD Console's user management. This does not affect your other Tencent Cloud services. If you have any questions, you can consult by [submitting a ticket](#).

Network Management

Internet Management

Last updated: 2026-03-20 15:21:17

By default, CVD cannot access the internet. If you need internet access while using CVD, you can enable it in the Network Management section of the CVD console.

Enable Internet Access

Note:

- Enabling internet access will incur additional fees, which are calculated separately from CVD fees. For details, see [NAT Gateway Billing Overview](#).
- Enabling internet access will create a pay-as-you-go NAT Gateway and EIP. The default outbound bandwidth is 100M. If you need higher bandwidth, you can modify it in the [NAT Gateway console](#).

Step 1: Authorize the Service

1. Log in to the CVD console and open the [Network Management](#) page.
2. If service authorization has not been completed, a pop-up window will appear automatically. Click **Agree to Authorize**.



! Note:

Enabling internet access for the CVD product will involve using other Tencent Cloud services (VPC, subnet, NAT Gateway, public IP, route table) and requires authorization for CVD to call the interfaces of these cloud services for operations (create, modify, query, delete).

Step 2: Enable Internet Access

1. On the **Network Management** page of the CVD console, view the VPC and subnet information containing the CVD, and click **Enable Internet Access**.



2. In the Enable Internet Access pop-up window, enter the gateway name, confirm the fees, and click **Activate Now**.

开通互联网访问

- 云桌面默认无法访问互联网，需要通过NAT网关进行流量转发以实现访问互联网需求。
- 开通互联网访问会产生额外费用，与云桌面分别计费，费用详情请参阅[NAT网关计费概述](#)。
- 当前规格及带宽配置为标准配置，如需更改配置需开通完成后在[NAT网关控制台](#)及[公网IP控制台](#)进行配置更改。

网关配置

网关类型: 传统型NAT网关

规格: 小型 (最大并发连接数100万)

出带宽上限: 100 Mbps

网关名称:

地址: 上海

私有网络: vpc-0raawidq

弹性公网IP配置

弹性公网IP: [新建弹性公网IP](#)

EIP带宽上限: 100 Mbps

自动关闭: VPC内云桌面全部删除后自动关闭互联网访问以节省费用。

协议: 我已阅读并同意《[腾讯云服务协议](#)》和《[NAT网关服务协议](#)》

网关实例费用: 元/小时 | 网络费用: 元/小时 | [立即开通](#)

! Explanation of Auto-disable feature:

If the Auto-disable feature is enabled, when the CVD backend detects that all CVDs under the current VPC have been terminated, and the NAT Gateway created by the CVD console is not associated with other route tables, the CVD service will automatically delete the NAT Gateway and EIP, remove the default route of the current route table, and disable internet access to save NAT Gateway fees.

3. Confirm the information, and if there is no impact, click **I Am Aware, Confirm Activation** to enable internet access for the CVD.

请再次确认以下信息:

- 默认将云桌面所在子网路由表的所有流量指向NAT网关，请确认该路由表是否关联其他子网，或该子网内是否存在其他业务服务器，否则会影响其他业务流量。
- 如果多个子网使用同一个路由表，建议为云桌面所在子网单独指定路由表。

[我已知晓，确认开通](#) [取消](#)

! Warning:

Enabling internet access for the CVD will by default direct all traffic in the route table of the subnet where the CVD resides to the NAT Gateway. Please confirm whether the route table is associated with other subnets or if there are other business servers in this subnet, otherwise it will affect other network traffic.

4. After activation, the status in the Network Management list changes to **Available** and the operation bar changes to **Disable Internet Access**, indicating that internet access has been successfully activated. You can then access the internet within the CVD.



Disabling Internet Access

1. Log in to the CVD console and open the [Network Management](#) page.
2. In the Network Management list, find the subnet list where you need to disable internet access, and click **Disable Internet Access**.



3. Disabling internet access will delete the NAT Gateway and EIP. Please ensure that the NAT Gateway is not applied to other business. Click **Confirm**.



4. To confirm disabling internet access, click **I Am Aware, Confirm Disable** to disable internet access for the current subnet in the CVD.



5. After closing, the status in the network management list changes to **-** and the operation column changes to **Enable Internet Access**. This indicates that Internet access has been successfully disabled, and the CVD will no longer be able to access the Internet.



Other Scenario 1: VPC or subnet already has a NAT Gateway

In this scenario, the VPC or subnet where the CVD is located already has a NAT Gateway. If there is a default route directing all traffic to the NAT Gateway, the CVD can directly access the internet. If the CVD cannot access the internet, you need to configure the CVD subnet route table to direct all traffic to the NAT Gateway or create a new NAT Gateway for the CVD. Below is the guide to configuring the CVD subnet route table.

Enable Internet Access

1. In the CVD console [Network Management](#) page, you can see that the current VPC or subnet already has a NAT Gateway with the status **Available** and the operation column displays **Configure Route Table**.



2. Click **Configure Route Table** to enable internet access for the CVD in the current subnet.

Warning:

Configuring the route table will default to directing all subnet traffic associated with the route table to the NAT Gateway. Please confirm whether the route table is associated with other subnets or if there are other business servers in the CVD subnet, as this may affect other business traffic.



3. Confirm information once again and click **I Acknowledge, Configure Now** to enable internet access for the CVD in the current subnet.



4. After configuration, the status in the Network Management list changes to **Available** and the operation column changes to **Disable Internet Access**, indicating that internet access has been successfully enabled. At this point, you can access the internet within the CVD.

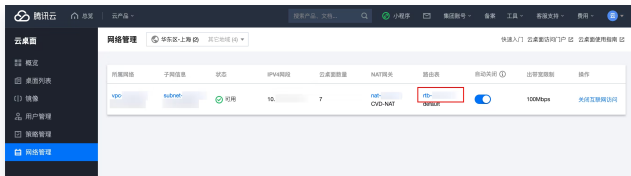


Close Internet Access

- The automatic close feature is not applicable in scenarios where the VPC or subnet already has a NAT Gateway (NAT Gateway and EIP not created by the CVD Console do not support automatic close).
- Click **Close Internet Access** to get a prompt that this NAT Gateway was not created by the CVD Console. You need to go to the [Route Table Console](#) to close Internet access for CVD.



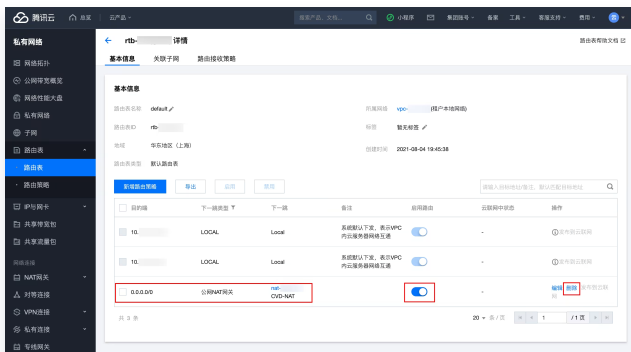
- Open the [Route Table Console](#), find the route table used by the CVD subnet, or click the route table ID on the network management page in the CVD Console to jump to the route table console.



- Close the default route or delete the default route to close CVD Internet access.

⚠ Warning:

Closing or deleting the default route in the route table will affect all subnets associated with that route table. Before closing or deleting, confirm whether the route table is associated with other business subnets to avoid impacting other businesses.



- If you need to delete the NAT Gateway and EIP, manually delete them in the [NAT Gateway Console](#) and [Public IP Console](#) according to your business needs. Confirm that the NAT Gateway and EIP are not used by other businesses before deleting.

Other Scenario 2: NAT Gateway associated with multiple route tables

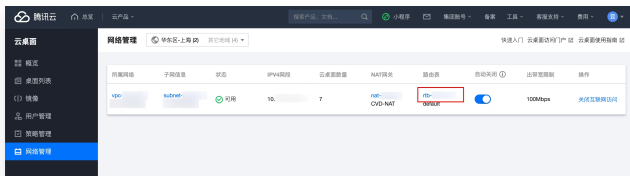
In this scenario, after enabling Internet access in the CVD console, if the NAT Gateway used by CVD is associated with multiple route tables, the automatic close feature will no longer apply. You cannot close Internet access for CVD in the CVD Console. You need to find the

route table used by the CVD subnet in the [Route Table Console](#) and close or delete the default route to disable CVD Internet access.

1. When closing Internet access in the CVD console, it will check if the NAT Gateway is associated with multiple route tables. If it is associated with multiple route tables, you need to perform the operation in the [Route Table Console](#).



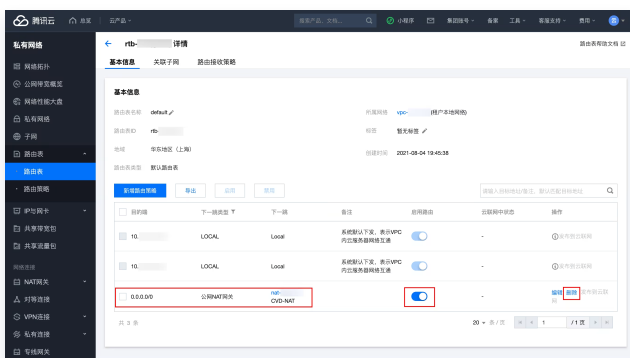
2. Open the [Route Table Console](#), find the route table used by the CVD subnet, or click the route table ID on the network management page in the CVD Console to jump to the route table console.



3. Close the default route or delete the default route to close CVD Internet access.

Warning:

Closing or deleting the default route in the route table will affect all subnets associated with that route table. Before closing or deleting, confirm whether the route table is associated with other business subnets to avoid impacting other businesses.

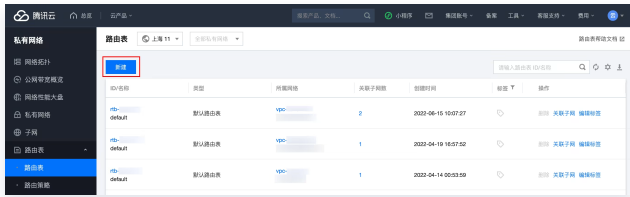


4. If you need to delete the NAT Gateway and EIP, manually delete them in the [NAT Gateway Console](#) and [Public IP Console](#) according to your business needs. Confirm that the NAT Gateway and EIP are not used by other businesses before deleting.

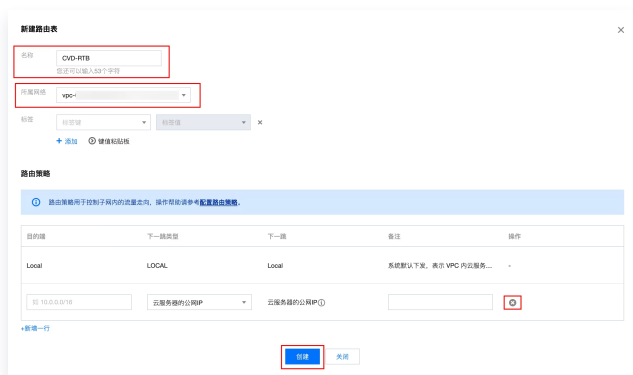
Attachment: Specify a separate route table for the CVD subnet

If the route table used by the subnet where CVD is located is associated with multiple business subnets, and you need to enable internet access for CVD without affecting the network traffic of other subnets' business servers, it is recommended to specify a separate route table for the CVD subnet.

1. Log in to the [Route Table Console](#) and click **New**.



2. In the popup for creating a new route table, enter the Route Table Name, select the Network (CVD's VPC), delete the default added routing policy, and click **New**.



3. After the route table is successfully created, it needs to be associated with the subnet where CVD is located.



4. Select the subnet where CVD is located. If there are multiple subnets, operate cautiously to avoid affecting the routes of other subnets. Click **Confirm** to complete the task of specifying a separate route table for the CVD subnet.



5. If you still need to enable internet access for CVD, refer to [Enable Internet Access](#) or manually create a NAT Gateway.

Managing Internet Access

Last updated: 2024-10-18 17:19:15

When enabling the internet in CVD, if your business has restrictions that limit access to specific endpoints or block certain endpoints from being accessible, this article introduces how to manage internet access.

Method 1: Network ACL (free)

The network access control list (ACL) is an optional security layer at the subnet level, which is used to control the data flow entering and leaving the subnet and can be accurate to the protocol and port granularity.

Creating Network ACL

1. log in to [Network ACL Console](#).
2. Select the region and VPC, and click **+Create New**.

Search for the required CAM policy as needed, and click to complete policy association.



Update Network ACL Rules

1. log in to [Network ACL Console](#).

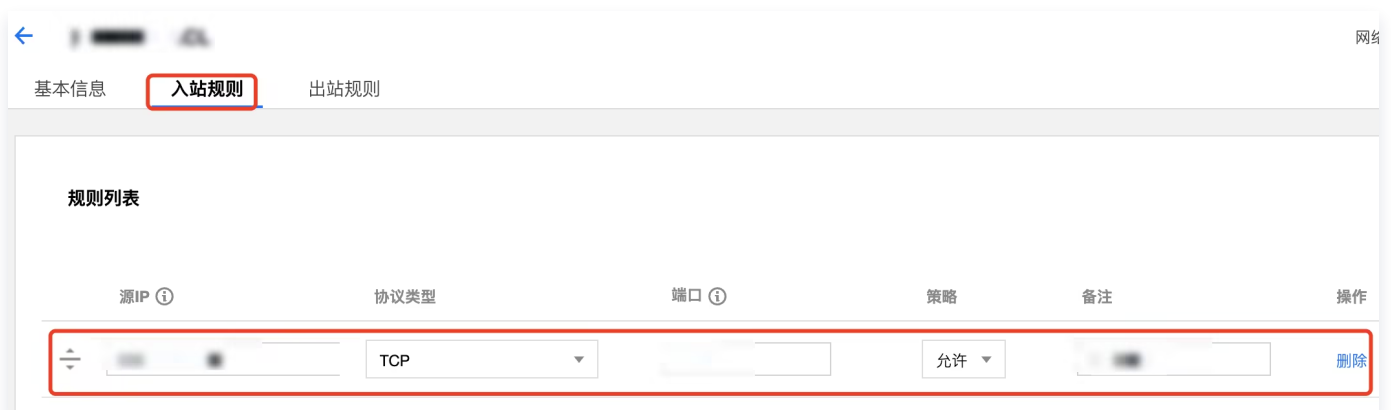
2. Find the Network ACL that requires rule modification, and click its ID.

Search for the required CAM policy as needed, and click to complete policy association.

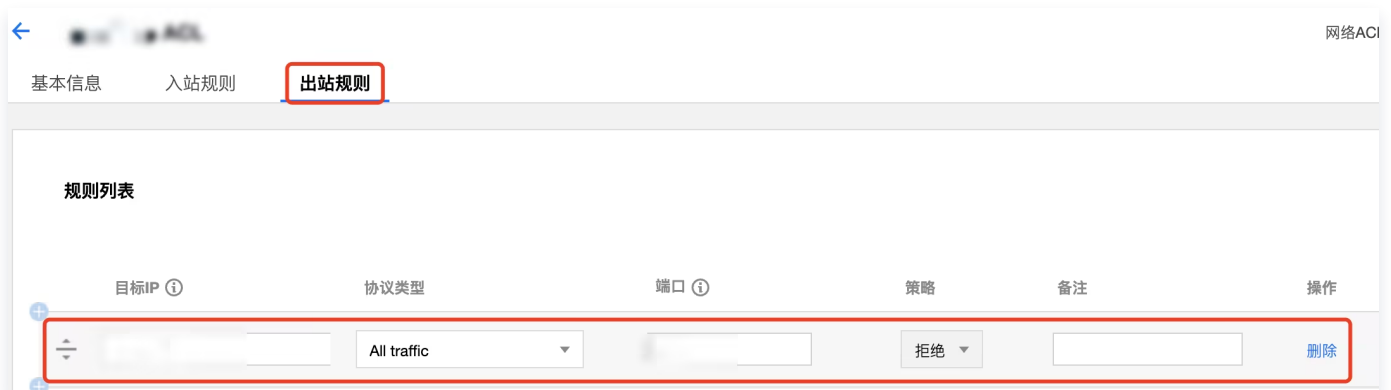


3. Update inbound or outbound rules.

Search for the required CAM policy as needed, and click to complete policy association.



Search for the required CAM policy as needed, and click to complete policy association.



4. Click Save to complete.

Associating Subnet to Network ACL

1. Log in to [Network ACL Console](#).

2. Find the Network ACL to be associated with the subnet, and click its ID.

3. On the basic information page+Add Association.

Search for the required CAM policy as needed, and click to complete policy association.



ⓘ Note:

For more detailed information about Network ACL, please refer to: [Overview of Network ACL Rules](#), [Description of Network ACL Restrictions](#), [Managing Network ACLs](#).

Method 2: Tencent CFW

Tencent CFW (Cloud Firewall, CFW) is a SaaS-based firewall in the public cloud environment that primarily provides network perimeter protection, addressing the unified management and security needs of access control and log auditing. Tencent CFW internet access control rules support domain filtering and traffic filtering based on geographical location. Inbound rules manage north-south traffic from outside to inside. Outbound rules manage north-south traffic from inside to outside. NAT boundary rules offer more granular traffic control compared to internet boundary rules and can be precise down to the specific IP within the subnet.

Internet Boundary Rules

1. log in to [CFW Internet Boundary Switch Console](#).
2. Locate the CVD network corresponding NAT Gateway, **and enable the firewall.**
3. Enter the Internet Boundary Rules configuration page.

Search for the required CAM policy as needed, and click to complete policy association.

访问控制

互联网边界规则 NAT边界规则 企业安全组(新) 内网间规则

规则列表 最近备份: 2022-09-04 01:23:13

入站规则 10 条
启用规则: 0条

出站规则 132 条
启用规则: 2条

规则列表配额 ① 10000 条

入站规则 出站规则

4. Click Add rule.

添加入站规则

访问源类型 IP地址 地理位置 云厂商 地址模板

访问目的类型 IP地址 资产实例 资源标签 地址模板 资产分组

规则优先级 最先 最后

执行顺序 ①	访问源 ①	访问目的 ①	目的端口 ①	协议 ①	策略 ①	描述 ①	操作
14	0.0.0.0/0	0.0.0.0/0	-1/-1	TCP	请选择	请输入50字以内的规则描述	复制 删除

确定 取消

5. Click OK to proceed.

NAT Boundary Rule

1. Log in to [CFW NAT Edge Firewall Console](#).
2. Currently, the NAT is not configured with a NAT edge firewall instance. Click **Create Instance**.
3. Enter the NAT Firewall Rules configuration page.

Search for the required CAM policy as needed, and click to complete policy association.

访问控制

上海 南京 北京 重庆 中国香港 深圳金融 成都 广州 多伦多 新加坡 中国台北 法兰克福

互联网边界规则 NAT边界规则 企业安全组(新) 内网间规则

规则列表 最近备份: 2022-08-17 17:43:09

入向规则 9 条
启用规则: 0条

出向规则 336 条
启用规则: 0条

规则列表配额 ① 5000 条

入向规则 出向规则

添加规则 导入规则 快速排序 批量操作 更多操作 全部状态

4. Click Add rule.

Search for the required CAM policy as needed, and click to complete policy association.

添加入向规则 访问目的地域 上海 ×

访问源类型 IP地址 地理位置 云厂商 地址模板

访问目的类型 IP地址 资产实例 资源标签 地址模板 资产分组

规则优先级 最先 最后

执行顺序 ^①	访问源 ^①	访问目的 ^①	目的端口 ^①	协议	策略 ^①	描述 ^①	操作
3	0.0.0.0/0	0.0.0.0/0	-1/-1	ANY	请选择	请输入50字以内的规则描述	复制 删除

5. Select and fill in the relevant details, then click OK.

ⓘ Note:

For more details on CFW Access Control, please refer to: [Internet Boundary Rules](#), [NAT Firewall Rules](#), [Inner Network Rules](#), etc.

Password Policy and Terminal Session Management

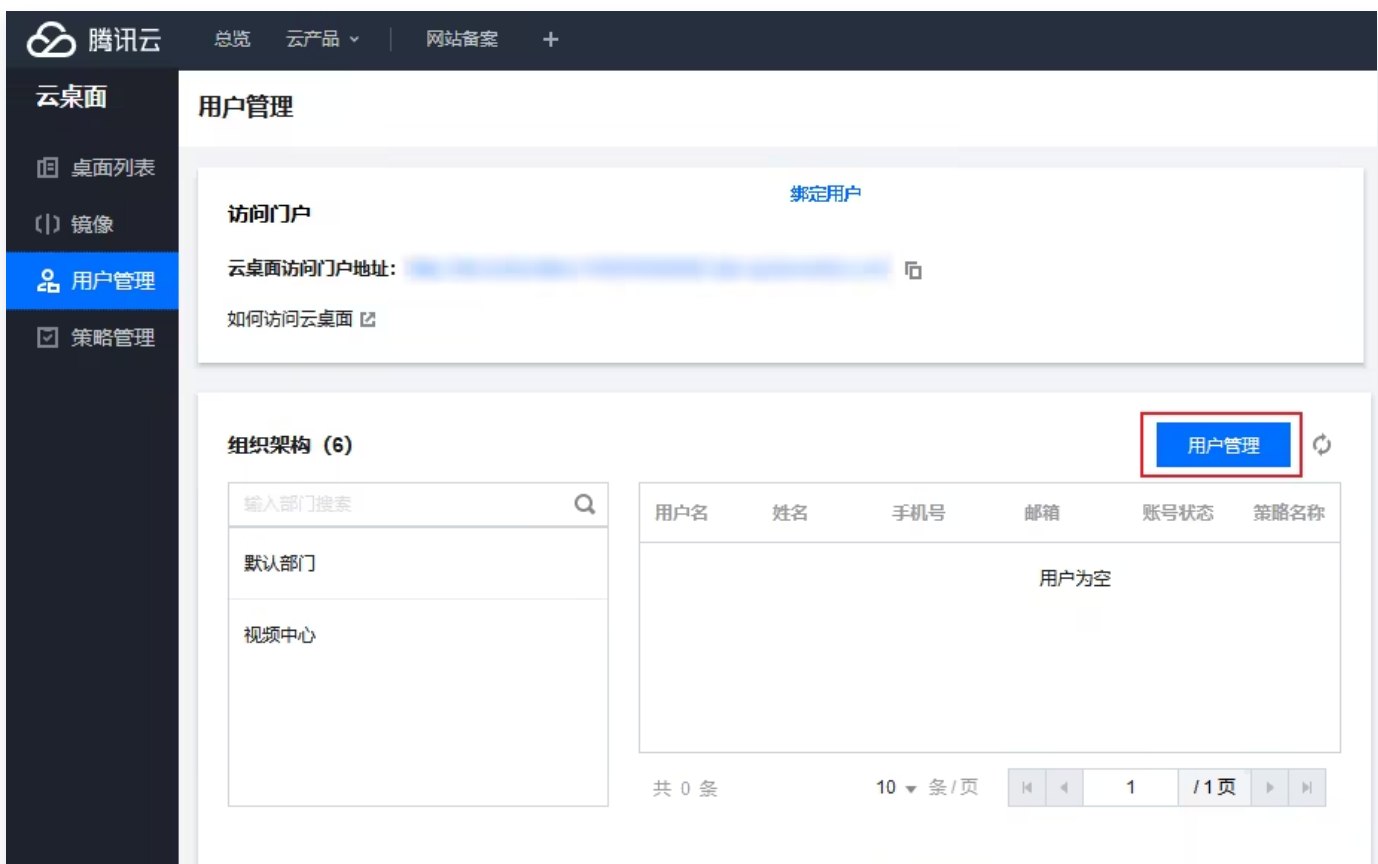
Last updated: 2024-10-18 17:19:26

User Password Policy Settings

Adding an end user password policy

1. Enter [CVD Console](#) , on the User Management main interface, click **User Management** , and you will be directed to the Tencent Cloud IDaaS interface. The end user password policy settings are provided by Tencent Cloud IDaaS.

Search for the required CAM policy as needed, and click to complete policy association.



2. Click **Security > Password policy** to enter the password policy management page, then click **Add policy** .
3. Enter the policy name and description. When you set the password requirements, the password length is required, and other items are optional. The higher the required password complexity, the higher the security.
4. Set the requirements for user password expiration and password reset.

5. Set the requirements for secure login. You can configure login authentication and account lock/unlock as needed. If you enable self-service unlock, users can unlock their accounts via email or security question; otherwise, they need to contact the admin for assistance.
6. Set the effective range of the password policy:
You can select **all users**, or choose **Custom Definition**, specifying users within any range based on dimensions such as personnel, personnel attributes, their department, and so on. In the "Exclude the following users" input box, enter the names of personnel to be excluded, up to a maximum of 20.
7. After completing the above settings, click **Confirm** to finish the current password policy settings.

Sorting password policies by priority

In the password policy list:

- Click the **up icon** to increase the priority.
- Click the **down icon** to decrease the priority.

End User Session Management

1. Enter [CVD Console](#).
2. Enter the main user management interface, click **User Management**, and navigate to the Tencent Cloud IDaaS interface.

Note:

Session Expiry Settings are provided by Tencent Cloud IDaaS.

3. Click **Security > Session Management** to enter the session management page. On the session management page, you can configure the following settings:
 - **Session Expiration Time:** In the **Session Expiration Time** settings section, set the expiration time for **Access Authentication Token** and **Access Refresh Token**.
 - **Session Termination Behavior:** In the **Session Termination Behavior** settings section, configure the associated behaviors of **Close Browser** and **Long-term Lack of System Operation**.

Note:

The time range for Long-term Lack of System Operation can be set to a minimum of 10 minutes and must not exceed the expiration time of the Access Refresh Token. The default is 30 minutes.

Custom Portal Settings

1. Enter [CVD Console](#).
2. Enter the main interface of User Management, click **User Management**, and navigate to the Tencent Cloud IDaaS interface. **Custom Portal Settings are provided by Tencent Cloud IDaaS.**
3. click **Settings > System Appearance Settings** to enter the System Appearance Settings interface, where you can configure the following settings:

Settings	Description
Browser Tab Settings	click the logo area to change the browser tab logo. The logo image must meet the system requirements. Edit the text of the browser tab in the input box and click OK to save the changes.
Portal appearance	click the logo area to change the login page logo. The logo image must meet the system requirements. Click the background area of the login page to change the background image. The background image must also meet the system requirements. Click OK to save the changes.

GPU CVD Graphics Card Driver Upgrade Guide

Last updated: 2024-10-18 17:19:39

Background

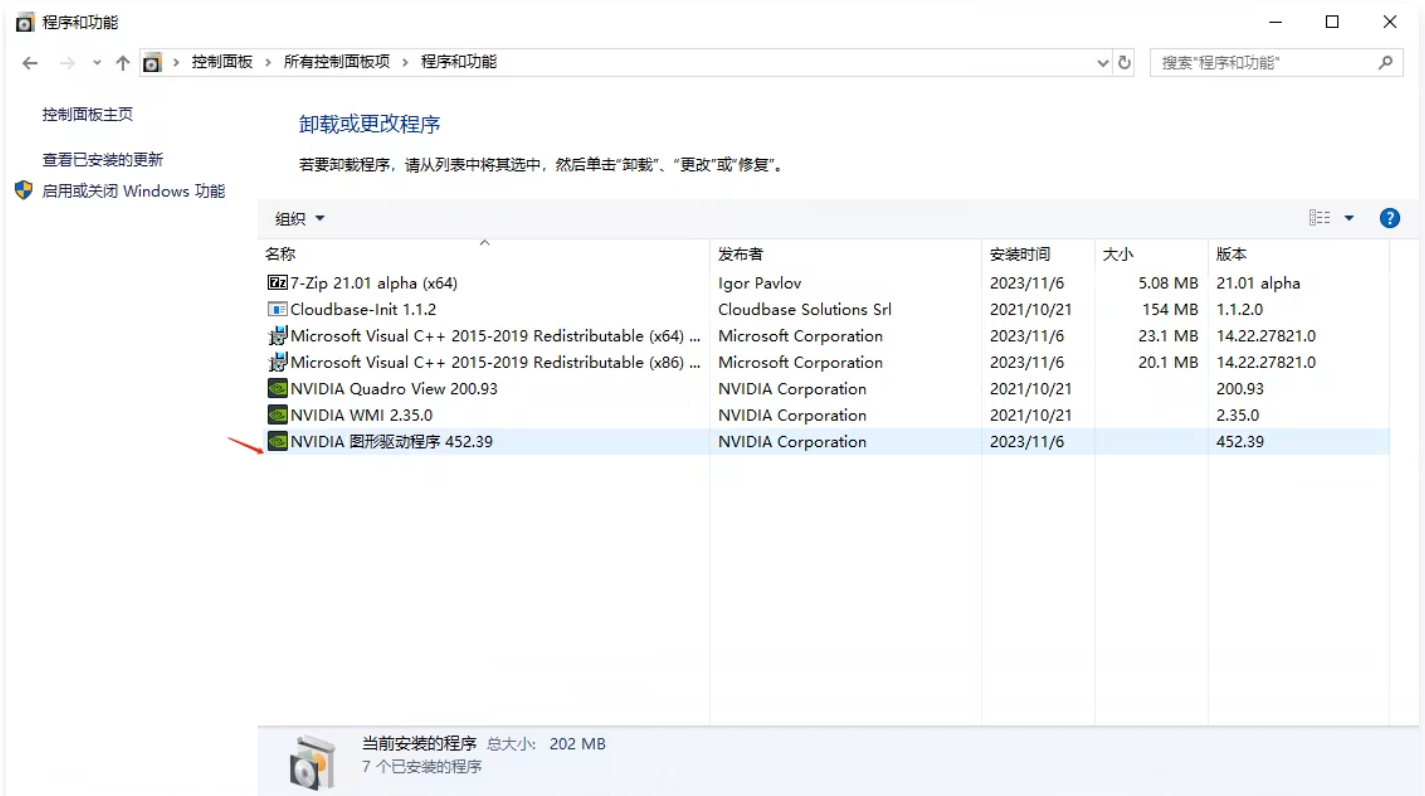
The GPU CVD currently uses an old version of the graphics card driver. NVIDIA will no longer provide technical support for the old version of the GRID License Server after July 31, 2023, and the old version of the GRID License purchased by Tencent Cloud will expire on March 30, 2024. For detailed announcement content, please refer to [GPU GRID Driver Upgrade Announcement](#). To ensure your business is not affected by driver expiration, we will perform a downtime upgrade operation on your GPU CVD instance. After the backend upgrade is completed, you need to upgrade the GPU driver version to GRID 16.2 within the CVD. Please refer to the following steps for operation.

Uninstall Old Version Driver

For existing GPU CVD instances or creating CVD from Definition images, you need to first uninstall the old version driver and then install the new version driver.

1. Go to **Control Panel > Programs and Features > select NVIDIA Graphics Driver**.
2. If **NVIDIA Graphics Driver 452.39** is displayed in Control Panel, it means the machine is using an old driver version and needs to be upgraded.
3. Right-click and select **Uninstall**. During the uninstallation, CVD may disconnect automatically. Reconnect CVD manually; when prompted to **reboot the machine**, reboot the machine.

Search for the required CAM policy as needed, and click to complete policy association.



Installing a new driver

Reconnect to CVD after restarting, copy the corresponding CVD model code, save it as 1.bat inside the CVD, then double-click to run it to complete the installation of the new version driver.

⚠ Warning:

After the installation is complete, the update_nls_token.bat file in the root directory of the C drive must not be deleted!

CVD – Graphics G1_4 cores 16G, CVD – Graphics G1_8 cores 32G, CVD – Graphics G2_6 cores 24G, CVD – Graphics G2_14 cores 58G, CVD – Graphics G3_4 cores 16G, CVD – Graphics G3_10 cores 40G:

```
set
dl_url='http://mirrors.tencentyun.com/install/GPU/grid/537.70_grid_win10
_win11_server2019_server2022_dch_64bit_international.exe'
powershell (new-object System.Net.WebClient).DownloadFile(%dl_url%,
'C:\nvidia.exe')
C:\nvidia.exe -s
del C:\nvidia.exe
```

```
set dl_url='http://mirrors.tencentyun.com/install/GPU/grid/run.bat'
powershell (new-object System.Net.WebClient).DownloadFile(%dl_url%,
'C:/run.bat')
set
dl_url='http://mirrors.tencentyun.com/install/GPU/grid/update_nls_token.
bat'
powershell (new-object System.Net.WebClient).DownloadFile(%dl_url%,
'C:/update_nls_token.bat')
call C:/run.bat
```

CVD – Graphic G1_16–core 64 GB, CVD – Graphic G2_12–core 44 GB, CVD – Graphic G3_20–core 80 GB:

```
set
dl_url='http://mirrors.tencentyun.com/install/GPU/grid/537.70_grid_win10
_win11_server2019_server2022_dch_64bit_international.exe'
powershell (new-object System.Net.WebClient).DownloadFile(%dl_url%,
'C:/nvidia.exe')
C:\nvidia.exe -s
del C:\nvidia.exe
reg add
"HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\nvlddmkm\Global\Gr
idLicensing" /v "FeatureType" /t REG_DWORD /d 2 /f
set dl_url='http://mirrors.tencentyun.com/install/GPU/grid/run.bat'
powershell (new-object System.Net.WebClient).DownloadFile(%dl_url%,
'C:/run.bat')
set
dl_url='http://mirrors.tencentyun.com/install/GPU/grid/update_nls_token.
bat'
powershell (new-object System.Net.WebClient).DownloadFile(%dl_url%,
'C:/update_nls_token.bat')
call C:/run.bat
```

Check License Status

In the CVD command line, use the command `nvidia-smi.exe -q` to check if the License has been successfully obtained. If the Product Name under vGPU Software Licensed Product is NVIDIA RTX Virtual Workstation, the License has been successfully obtained.

Search for the required CAM policy as needed, and click to complete policy association.

```

cmd 选择管理员: 命令提示符
Microsoft Windows [版本 10.0.17763.2268]
(c) 2018 Microsoft Corporation。保留所有权利。

C:\Users\Administrator>nvidia-smi.exe -q

=====NVSMI LOG=====

Timestamp                : Sun Oct  8 13:10:40 2023
Driver Version           : 536.25
CUDA Version             : 12.2

Attached GPUs            : 1
GPU 00000000:00:06.0
  Product Name           : Tesla T4
  Product Brand          : Quadro RTX
  Product Architecture   : Turing
  Display Mode           : Enabled
  Display Active         : Disabled
  Persistence Mode       : N/A
  Addressing Mode        : N/A
  MIG Mode
    Current               : N/A
    Pending               : N/A
  Accounting Mode        : Disabled
  Accounting Mode Buffer Size : 4000
  Driver Model
    Current               : WDDM
    Pending               : WDDM
  Serial Number          : 1564920004377
  GPU UUID               : GPU-9083257e-0e9f-bf1d-fbad-ad15059e5fd7
  Minor Number           : N/A
  VBIOS Version          : 90.04.96.00.01
  MultiGPU Board         : No
  Board ID               : 0x6
  Board Part Number      : 900-2G183-0000-001
  GPU Part Number        : 1EB8-895-A1
  FRU Part Number        : N/A
  Module ID              : 1
  Inforom Version
    Image Version         : G183.0200.00.02
    OEM Object            : 1.1
    ECC Object            : 5.0
    Power Management Object : N/A
  GPU Operation Mode
    Current               : N/A
    Pending               : N/A
  GSP Firmware Version  : N/A
  GPU Virtualization Mode
  Virtualization Mode    : Pass-Through
  Host vGPU Mode         : N/A
  vGPU Software Licensed Product
    Product Name          : NVIDIA RTX Virtual Workstation
    License Status        : Licensed (Expiry: 2023-10-8 6:7:49 GMT)

```

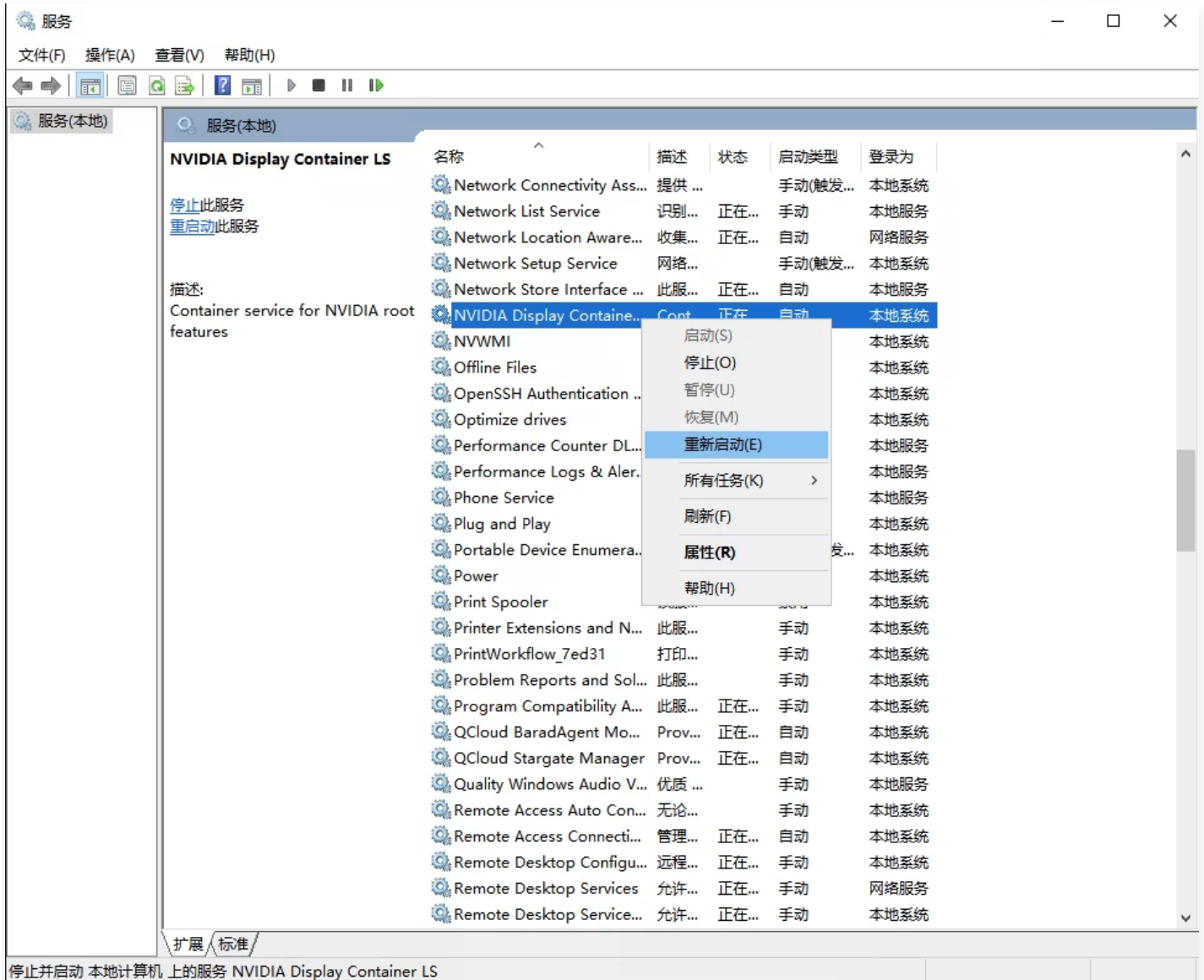
If the license is not successfully obtained, click Next. If it is obtained successfully, the upgrade is complete.

Restart the NvDisplayContainer service

If obtaining the license fails, you can restart this service.

Go to Control Panel > Services, find Nvidia Display Container LS, right-click, select **Restart**, then continue with Back to check the license status, ensuring the license is successfully obtained.

Search for the required CAM policy as needed, and click to complete policy association.



Technical Support

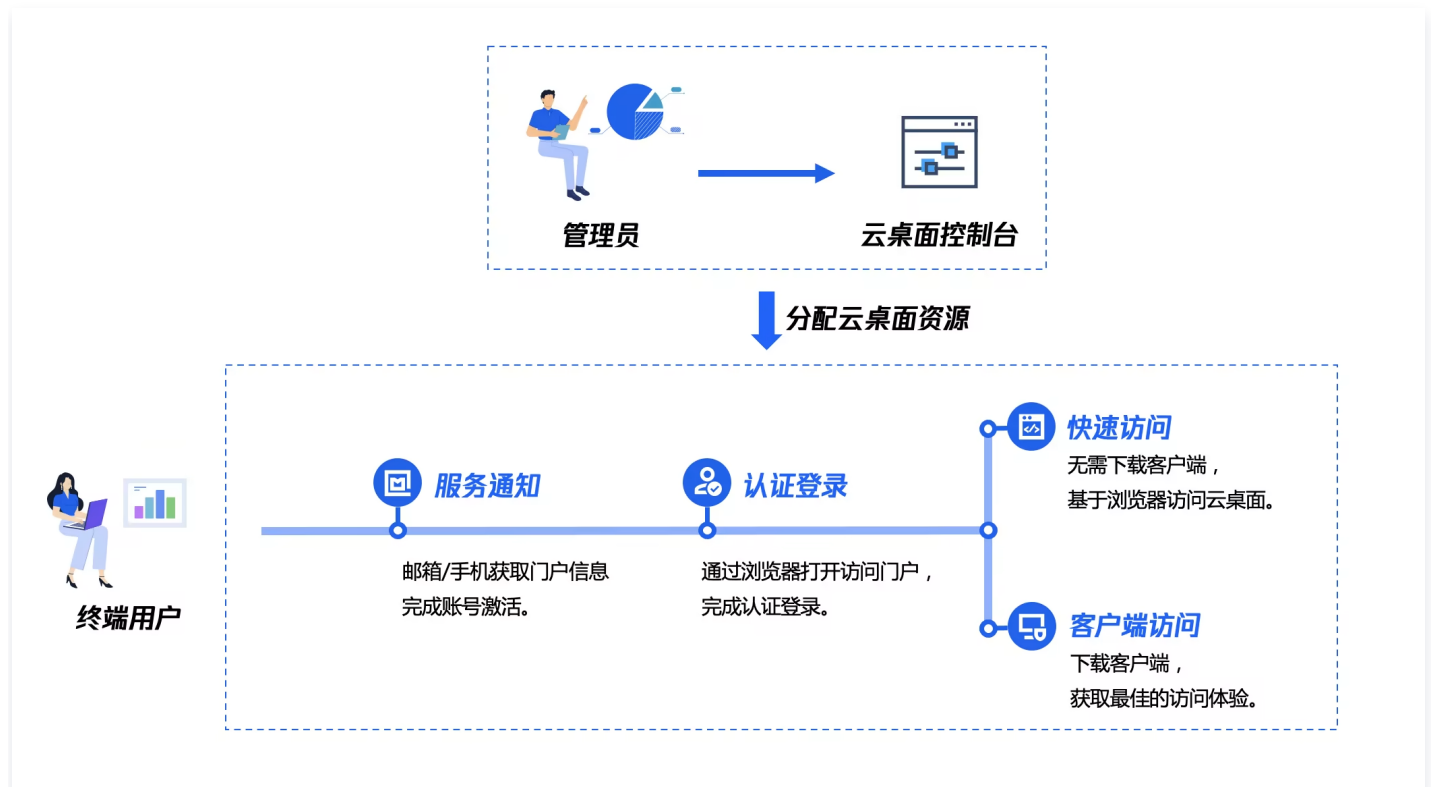
If you encounter any issues during the graphics card driver upgrade, you can contact the Tencent Cloud After-sales Service Hotline 4009-100-100 or use [Tencent Cloud Online Ticket](#) for feedback, and we will quickly resolve the issues you are facing.

End user Operating Procedures

Last updated: 2024-10-18 17:19:55

This article primarily introduces the business process of using CVD as an End User. It helps you quickly understand the relevant procedures.

Search for the required CAM policy as needed, and click to complete policy association.



Process Description

1. As an end user, you will receive an Email or SMS reminder. Please follow the instructions to activate your account. For detailed operations, please refer to [Activate CVD Account](#).
2. You need to access the CVD Portal and log in to access CVD resources. For detailed operations, please refer to [Log in to the CVD Access Portal](#).
3. After obtaining the desktop list, you can select an appropriate CVD access method based on your needs. For detailed operations, please refer to [Open CVD](#).

Activate CVD Account

Last updated: 2024-10-18 17:20:07

1. After the CVD admin adds you as an end user, you will receive an activation email or SMS message.

Search for the required CAM policy as needed, and click to complete policy association.



2. Click **Activate now** in the email or SMS message to go to the activation page, where you need to set your CVD password and security question.

Note:

In order to ensure the security of your CVD account, the password must meet the rules; otherwise, it cannot be set successfully.

3. After setting the password, you will be redirected to the CVD login page. We recommend you use Chrome for access.

Search for the required CAM policy as needed, and click to complete policy association.



4. Enter your username and password to access CVD resources.

Search for the required CAM policy as needed, and click to complete policy association.



Log in to the CVD Portal

Last updated: 2024-10-18 17:20:18

1. You can open the CVD Portal in the following ways:

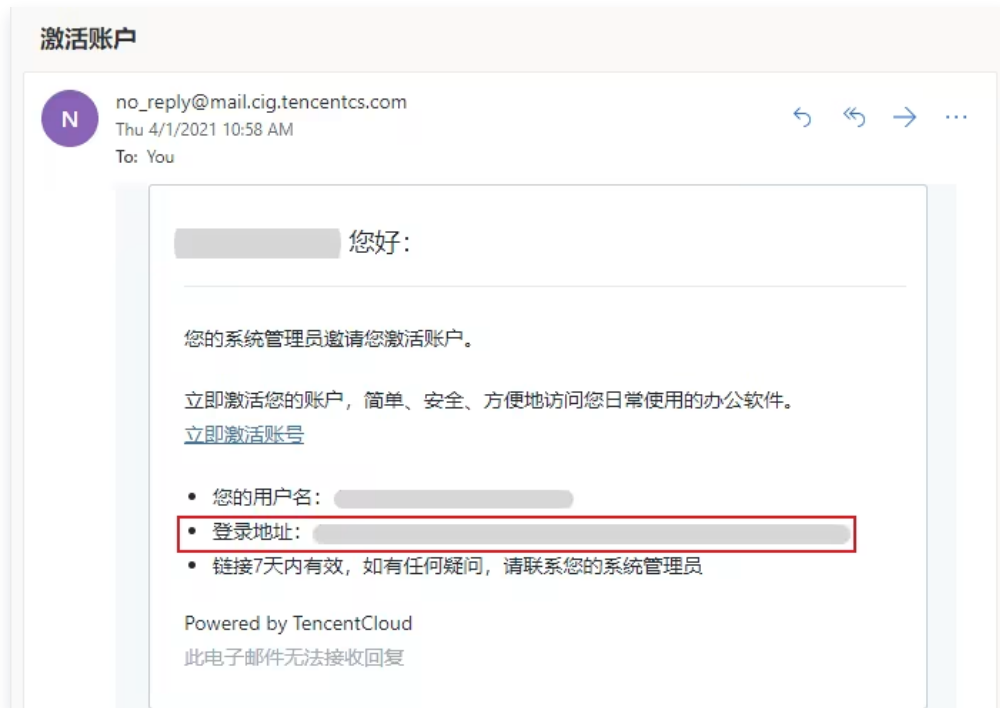
- After setting the password, you will be redirected to the CVD login page.

Search for the required CAM policy as needed, and click to complete policy association.



- click the CVD log in address in the email.

Search for the required CAM policy as needed, and click to complete policy association.



- Contact your CVD Administrator. The CVD Administrator will share the CVD Access Portal link with you.

2. After opening the CVD Portal, enter your CVD account and password to log in to the CVD Access Portal.

Search for the required CAM policy as needed, and click to complete policy association.



Note:

If log in is successful but there are no available CVD resources in the CVD access portal, it means your administrator has not assigned CVD to you. Please contact your administrator.

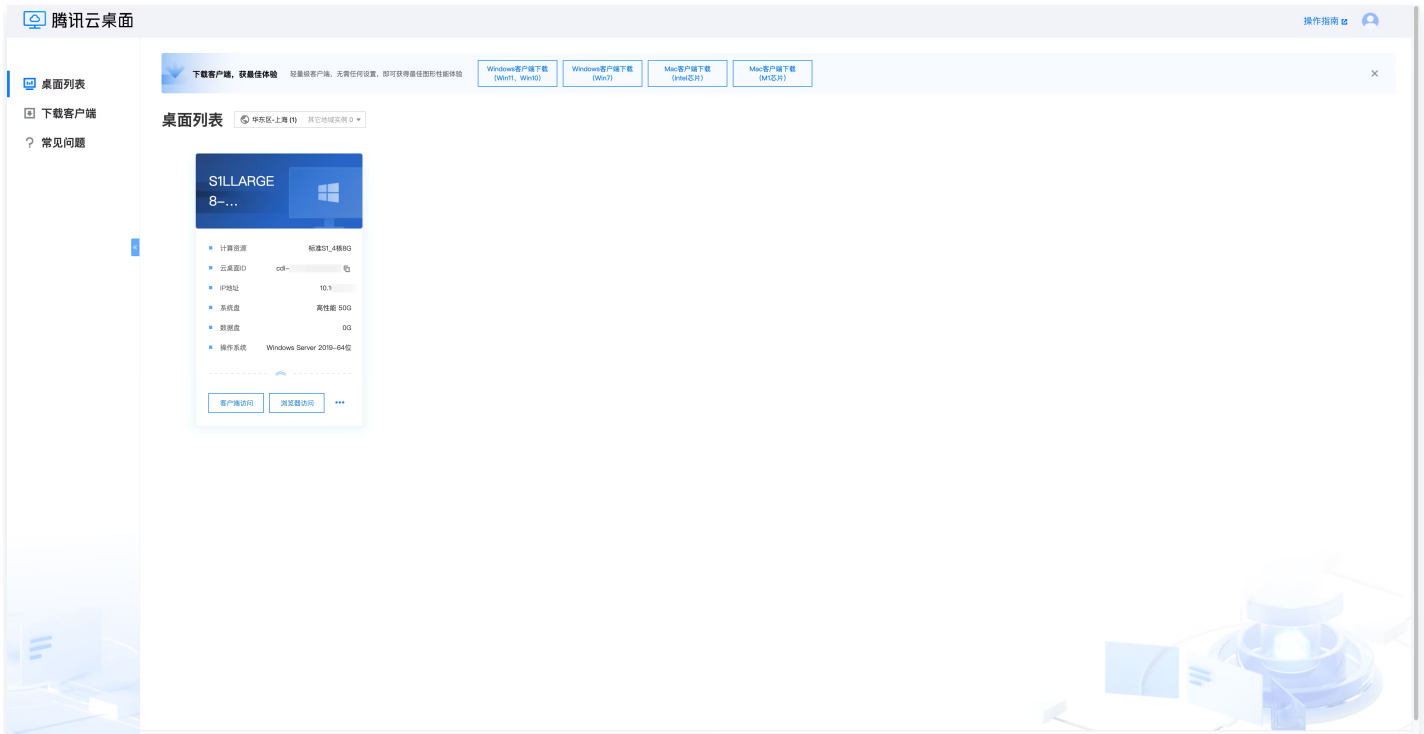
Opening a Desktop

Last updated: 2024-10-18 17:20:30

Accessing a Desktop

In the CVD portal, select the CVD you want to access. You can access it via [client](#) or [browser](#).

Search for the required CAM policy as needed, and click to complete policy association.



Note:

For a better CVD access experience, it is recommended to use the client for access.

Client Access

Launch the client to open CVD. This method provides the best graphical performance experience and allows for an immersive CVD experience.

Note:

Make sure that the client has been installed. If the client prompts you to set up an account or enter a username, just close the prompt.

1. Download the CVD client plugin and install it. If your computer already has this client installed, you do not need to download and install it again. Please ignore this step.

- [Windows client \(Win11, Win10\) Download](#)
- [Windows client \(Win7\) Download](#)
- [Mac client \(Intel Chip\) Download](#)
- [Mac client \(M Chip\) Download](#)

2. After confirming the installation is complete, please click **Client access** again. The CVD portal will automatically call the client plugin to open the CVD.

Search for the required CAM policy as needed, and click to complete policy association.



! Note:

If you click **Download Client** but nothing happens, it is because the browser's pop-up blocker is preventing the client download. You will receive a message from the browser indicating that the pop-up has been blocked. Allowing pop-ups depends on the browser settings you are using.

Note: Citrix Workspace is a lightweight client that enhances the CVD access experience, providing optimal CVD access performance.

Browser Access

You can quickly open and use a CVD instance through a web browser that has HTML5 capability, with no need to download and install the client. However, there are some restrictions in this mode; for example, local files uploaded to the CVD are limited to 2 GB, files

downloaded from the CVD to your local device are limited to 250 MB, and not all peripheral drivers can be mapped to the CVD.

 **Note:**

Quick Access Mode requires your browser to support HTML5 Web Browser.

1. Select the CVD you need to access.
2. Click **Browser Access**. The browser mode will automatically pop up a browser tab and open the CVD, allowing you to access CVD resources.


 **Note:**

If you cannot access the CVD through the browser, check your local network connection and make sure that your browser supports the HTML5 feature. If the problem persists, it may be because the browser has blocked pop-ups. If this is the case, allow pop-ups and try again.

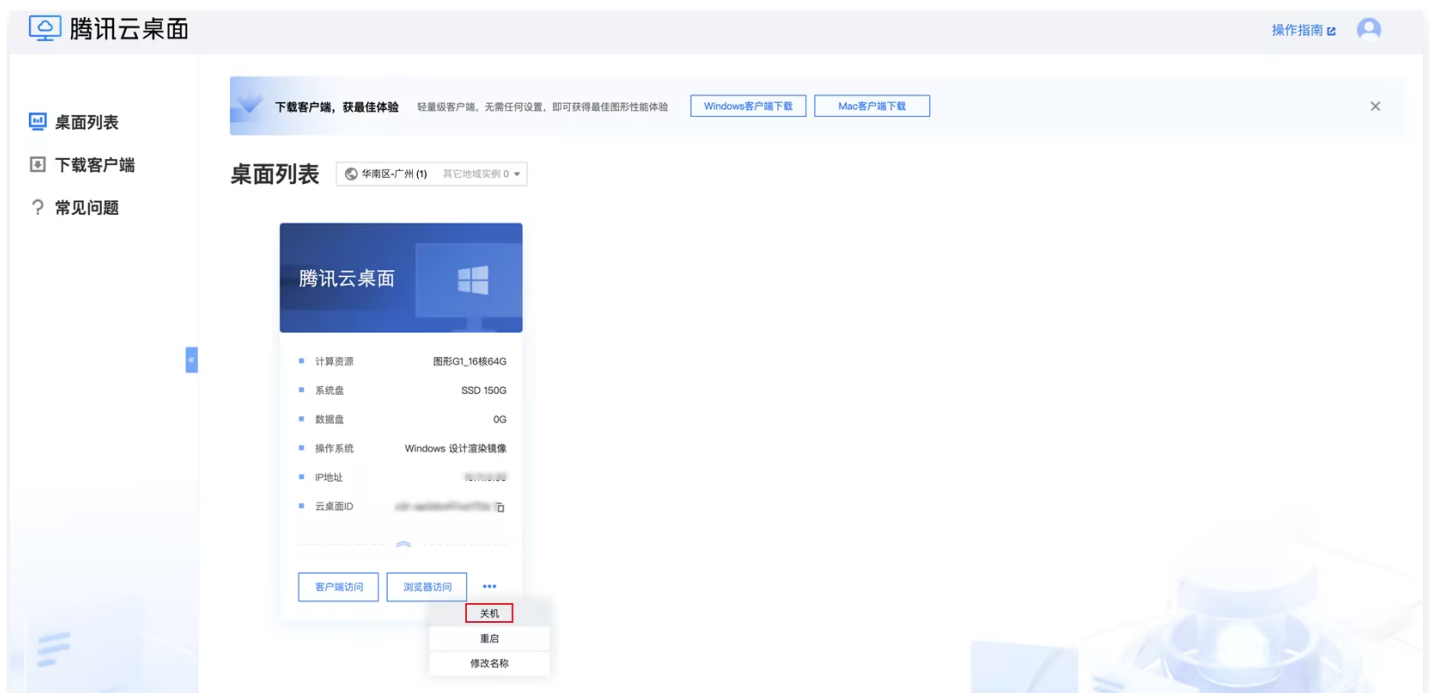
Shutdown, Restart, Rename CVD

Last updated: 2024-10-18 17:20:42

Shutting down CVD Instance

In the CVD portal, perform the CVD shutdown operation. Click on the CVD card , and select **Shutdown**.


Search for the required CAM policy as needed, and click to complete policy association.



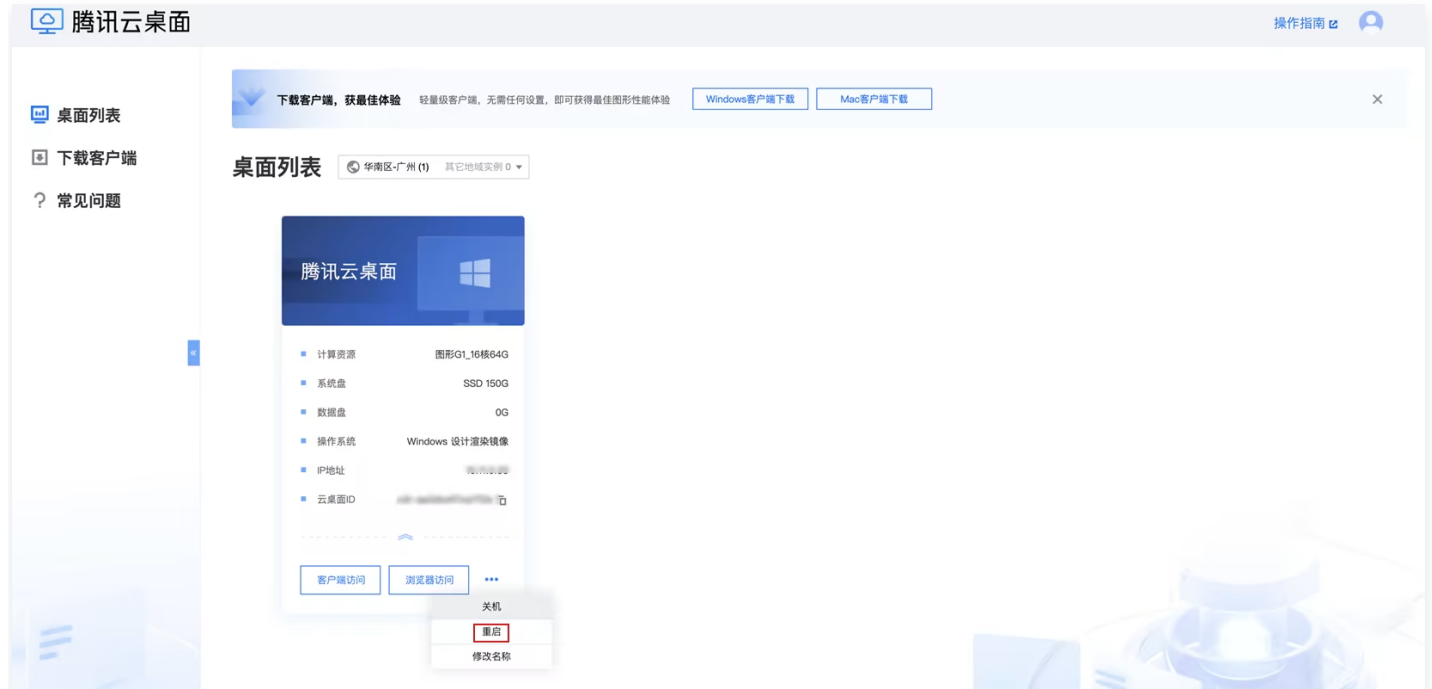
Note:

Shutting down the instance may lead to loss of unsaved data. Make sure that your data has been saved.

Restarting CVD Instance

In the CVD portal, perform a CVD restart operation. Click the  on the CVD card, and select **Restart**.

Search for the required CAM policy as needed, and click to complete policy association.



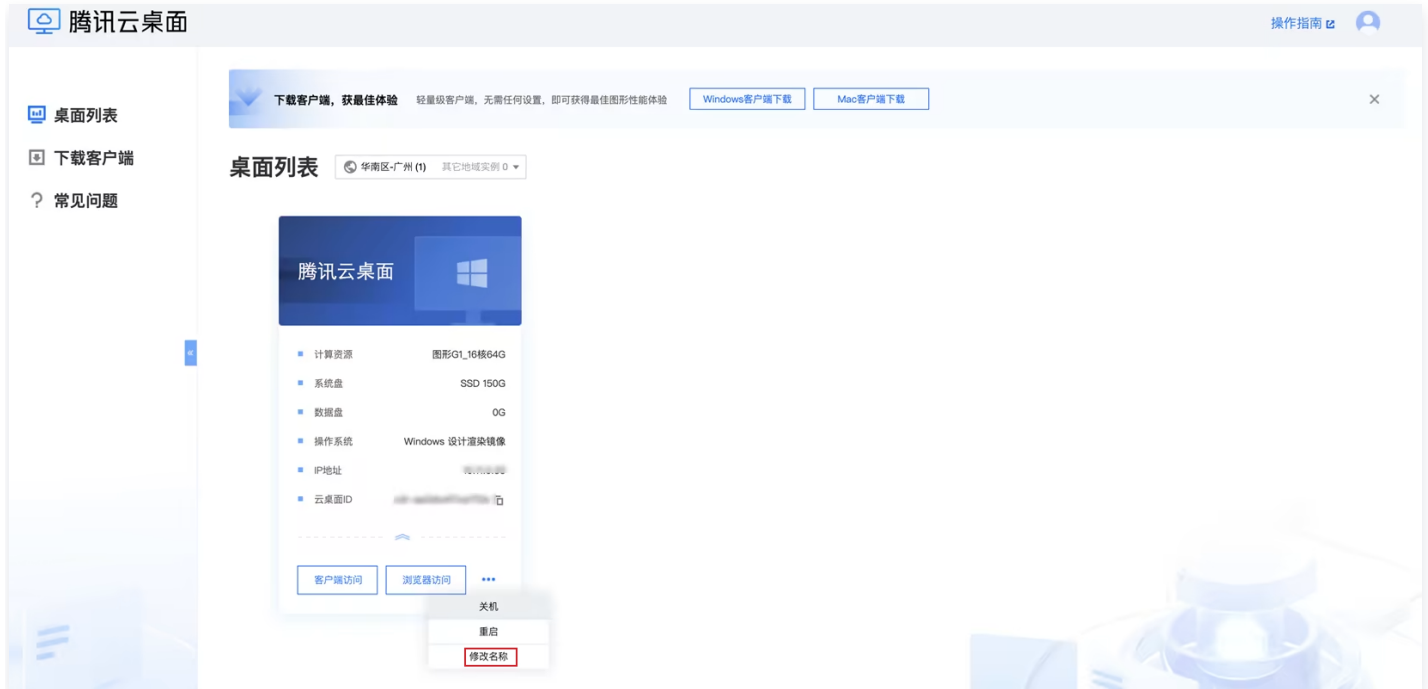
Note:

Restarting the instance may lead to loss of unsaved data. Make sure that your data has been saved.

Renaming

In the CVD portal, rename a CVD by clicking the  on the CVD card, then select **Rename**.

Search for the required CAM policy as needed, and click to complete policy association.



In the pop-up rename window, enter the new CVD name and click **OK** to complete the renaming.

Search for the required CAM policy as needed, and click to complete policy association.

