H3C CB7000 Installation Guidance and Basic Configuration V1.0

Software version:R1501

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This installation guide is based on CB server deployment on openEuler 22.03 and on a virtual machine platform. For other operating systems or for bare metal deployment scenarios, refer to the complete H3C CB7000 V3 Deployment Guide. This document is for reference only.

1 Scope

This installation guide applies to deploying the CB server on a virtual machine. It is intended for CB7000 V3 software installation in a CAS or similar virtualization

environment by using openEuler 22.03 and the H3C CB7000 V3 software package.

2 Download openEuler ISO

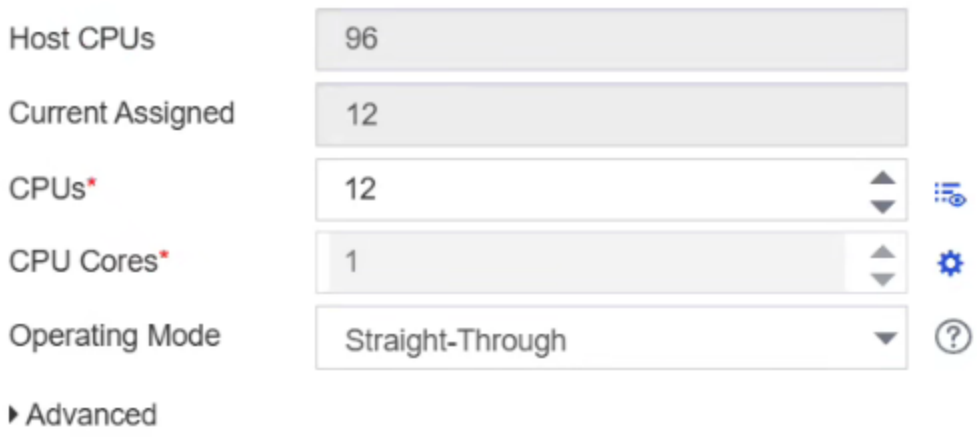
Download the openEuler 22.03 ISO image from the official openEuler repository, as referenced in the source document. Use the x86_64 ISO that matches the CB server deployment environment.

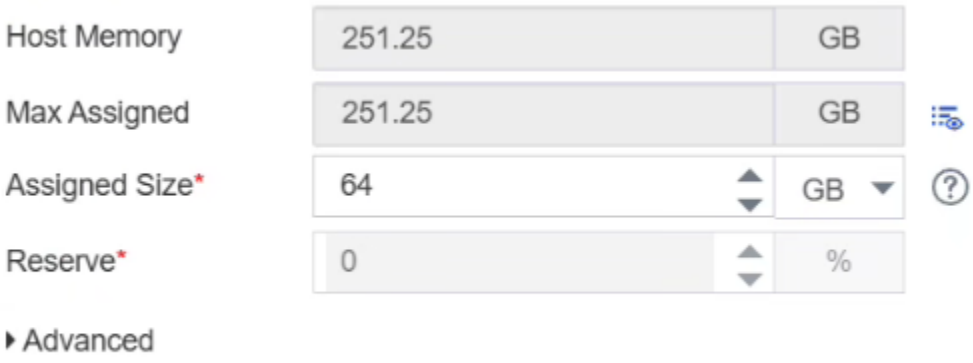
openEuler-22.03-LTS-everything-debug-x86_64-dvd.iso	17.9 GiB	2022-Apr-01 08:38
openEuler-22.03-LTS-everything-debug-x86_64-dvd.iso.sha256sum	118 B	2022-Apr-01 08:35
openEuler-22.03-LTS-everything-x86_64-dvd.iso	15.6 GiB	2022-Apr-01 08:41
openEuler-22.03-LTS-everything-x86_64-dvd.iso.sha256sum	112 B	2022-Apr-01 08:35
openEuler-22.03-LTS-netinst-x86_64-dvd.iso	721.0 MiB	2022-Apr-01 08:38
openEuler-22.03-LTS-netinst-x86_64-dvd.iso.sha256sum	109 B	2022-Apr-01 08:35
openEuler-22.03-LTS-x86_64-dvd.iso	3.4 GiB	2022-Apr-01 08:35
openEuler-22.03-LTS-x86_64-dvd.iso.sha256sum	101 B	2022-Apr-01 08:35
openEuler-22.03-LTS-x86_64.rpmlist	102.7 KiB	2022-Apr-01 08:34

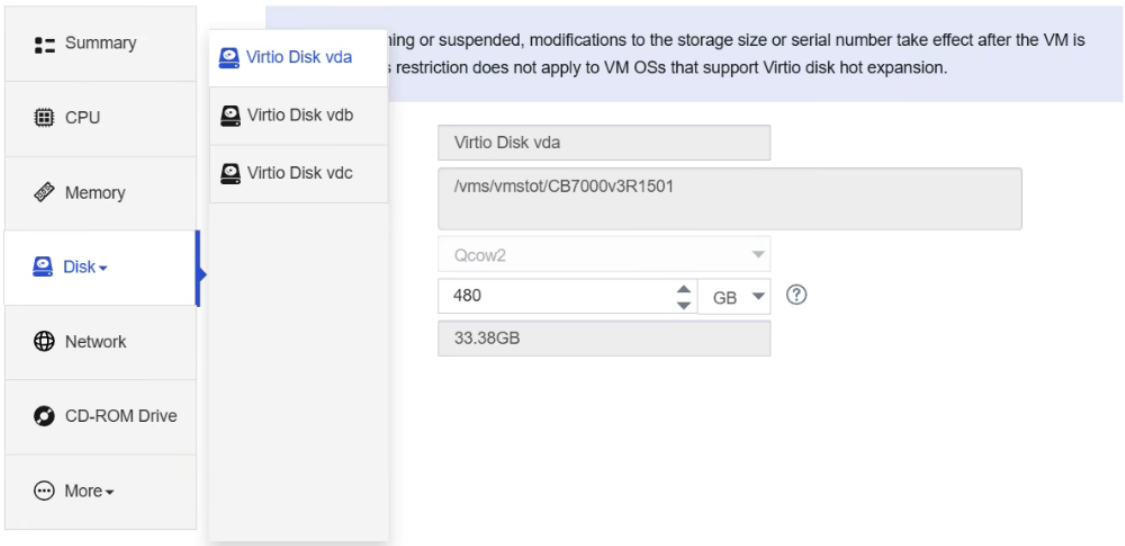
Place the ISO in the virtualization platform image repository before creating the virtual machine. Insert the screenshot from the original document here as shown in the figure.

3 Create the CB VM

Create a CB virtual machine on CAS or another supported virtualization platform. The VM must have at least 12 vCPUs, at least 64 GB memory, a system disk of at least 480 GB, and at least two additional data disks.


Host CPUs
96
Current Assigned
12
CPUs*
12
CPU Cores*
1
Operating Mode
Straight-Through
Advanced


Host Memory
251.25
GB
Max Assigned
251.25
GB
Assigned Size*
64
GB
Reserve*
0
%
Advanced


Summary
CPU
Memory
Disk
Network
CD-ROM Drive
More
Virtio Disk vda
Virtio Disk vdb
Virtio Disk vdc
ing or suspended, modifications to the storage size or serial number take effect after the VM is
restriction does not apply to VM OSs that support Virtio disk hot expansion.
Virtio Disk vda
/vms/vmstot/CB7000v3R1501
Qcow2
480
GB
33.38GB

These resources are the baseline for the virtual-machine-based CB server in your deployment scenario. Insert the screenshots from the original document here to show the VM creation page and the disk layout.

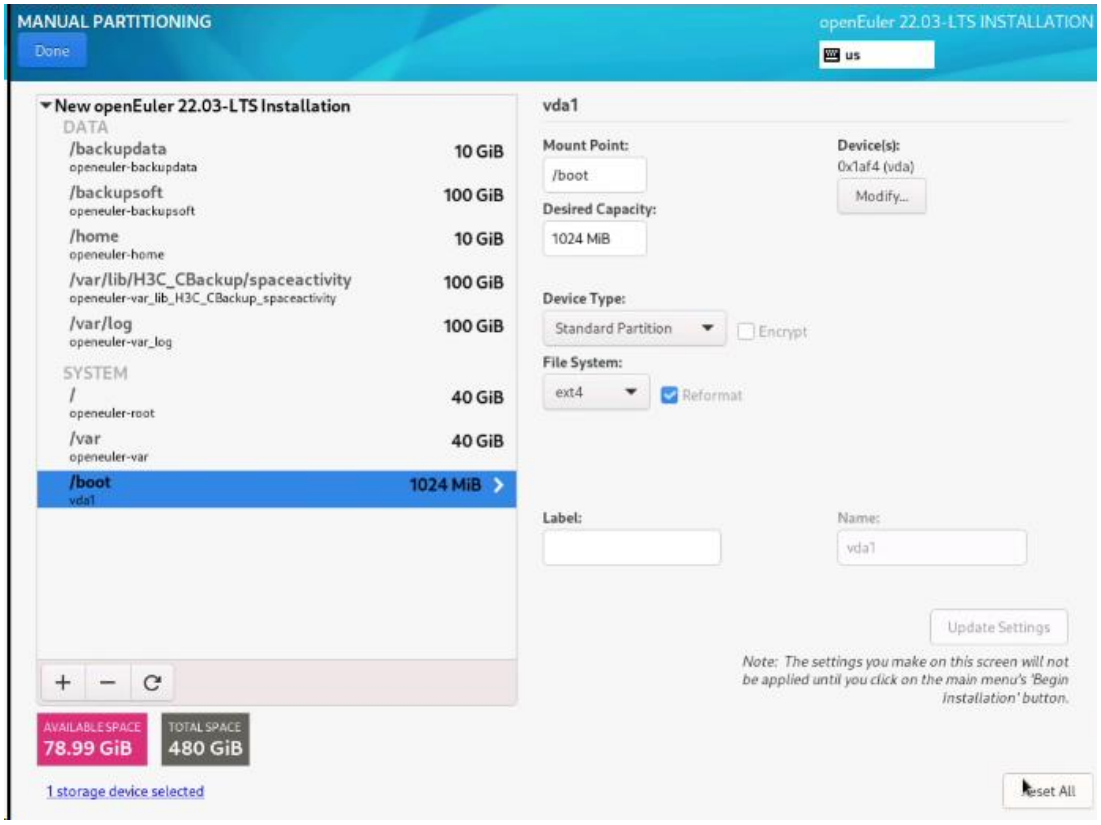
4 Install the Operating System

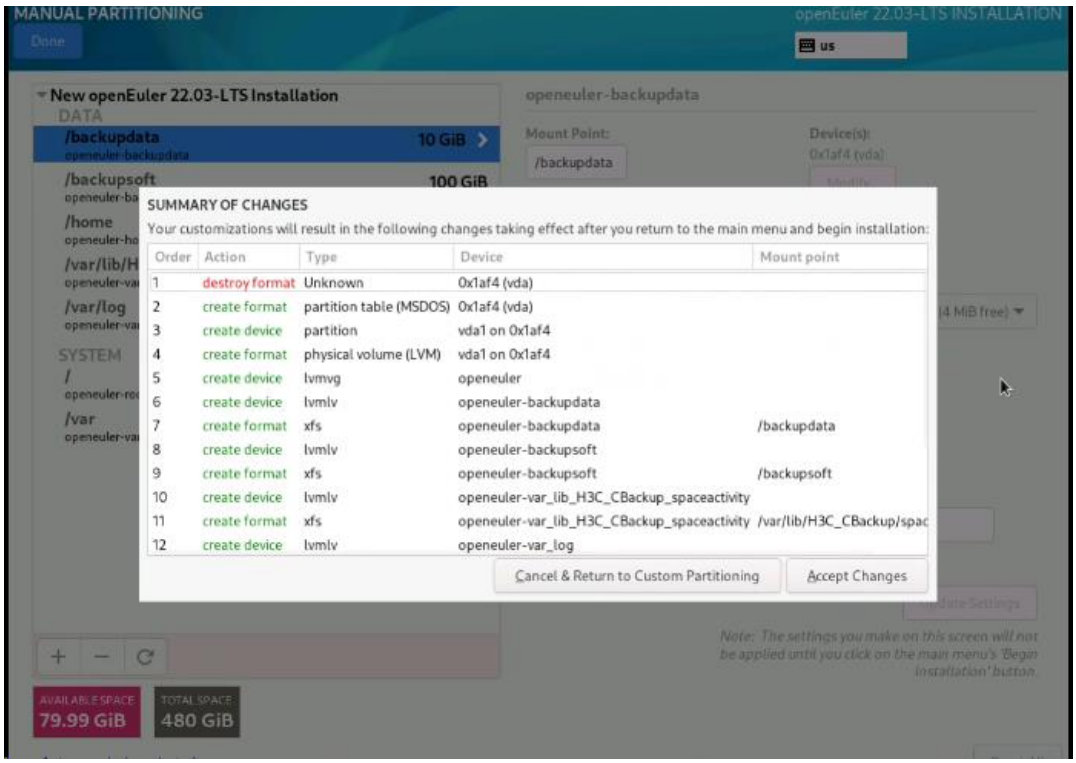
Install openEuler 22.03 on the CB virtual machine.

Use the partitioning layout shown in the figure and keep the main mount points and capacities aligned with the document, including /, /var, /home, /var/log, /var/lib/H3C_CBackup/spaceactivity, /backupsoft , and /backupdata. The attached note lists recommended sizes such as / 40 GiB, /var 40 GiB, /home 10 GiB, /var/log 100 GiB, /var/lib/H3C_CBackup/spaceactivity 100 GiB, /backupsoft 100 GiB, and /backupdata 10 GiB, with swap disabled or not created.

Partition	Suggested Capacity	File System Format	Description
/boot	1 GiB	Ext4	Boot partition. Designed for independent management of kernels and boot files.
/	40 GiB	xfs	Root partition. A minimum of 40GB is recommended for system stability.
/var	40 GiB	xfs	Recommended at least 40GB for device codes and system service files.
/home	10 GiB	xfs	Minimum 10GB recommended for user-specific data and configurations.

Partition	Suggested Capacity	File System Format	Description
/var/log	100 GiB	xfs	At least 100GB is required for long-term log storage and auditing.
/var/lib/H3C_CBackup/spaceactivity	100 GiB	xfs	Dedicated data partition. Requires 100GB; do not store other files here to ensure performance.
/backupsoft	100 GiB	xfs	Required 100GB for console software packages. Name may vary, but capacity is mandatory.
/backupdata	10 GiB	xfs	At least 10GB required for backup resource files and metadata.

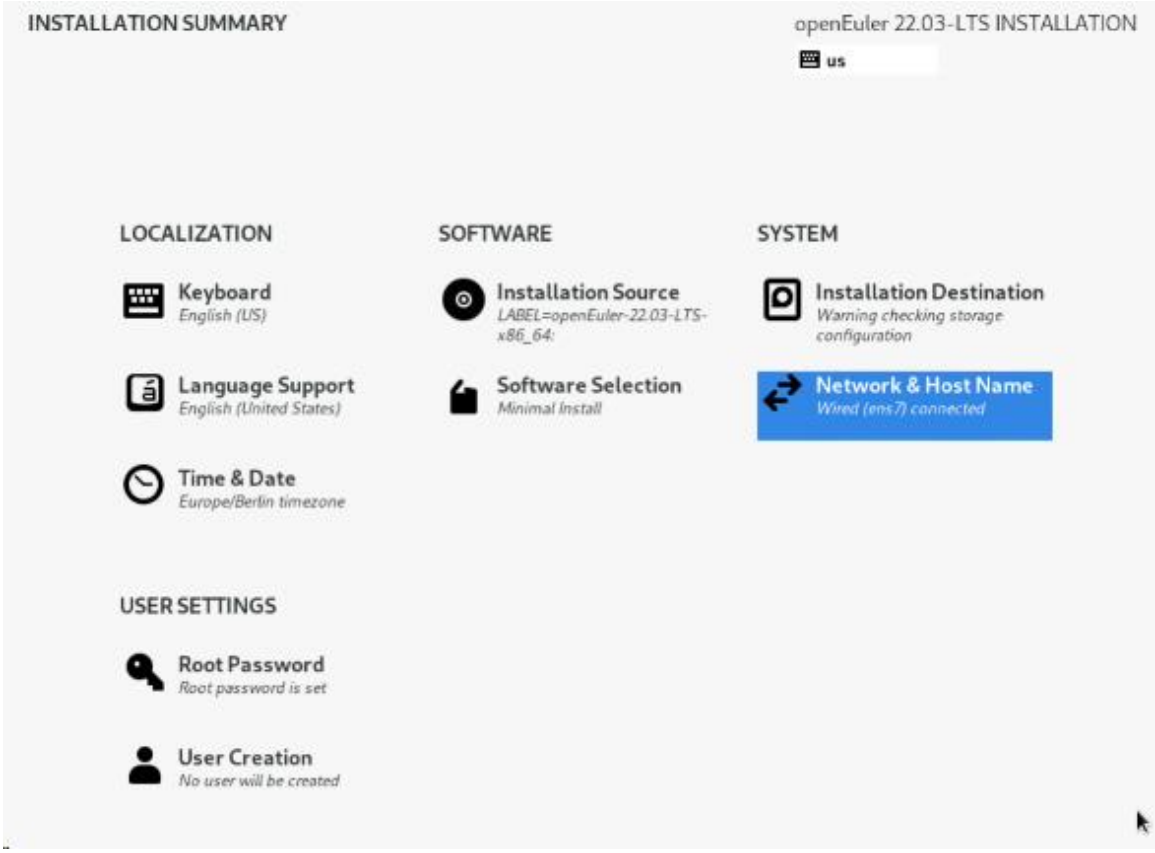

MANUAL PARTITIONING
Done
openEuler 22.03-LTS INSTALLATION
us
New openEuler 22.03-LTS Installation
DATA
/backupdata
openeuler-backupdata
10 GiB
/backupsoft
openeuler-backupsoft
100 GiB
/home
openeuler-home
10 GiB
/var/lib/H3C_CBackup/spaceactivity
openeuler-var_lib_H3C_CBackup_spaceactivity
100 GiB
/var/log
openeuler-var_log
100 GiB
SYSTEM
/
openeuler-root
40 GiB
/var
openeuler-var
40 GiB
/boot
vda1
1024 MiB
vda1
Mount Point:
/boot
Desired Capacity:
1024 MiB
Device(s):
0x1af4 (vda)
Modify...
Device Type:
Standard Partition
Encrypt
File System:
ext4
Reformat
Label:
Name:
vda1
Update Settings
Note: The settings you make on this screen will not be applied until you click on the main menu's 'Begin installation' button.
AVAILABLE SPACE
78.99 GiB
TOTAL SPACE
480 GiB
1 storage device selected
Reset All

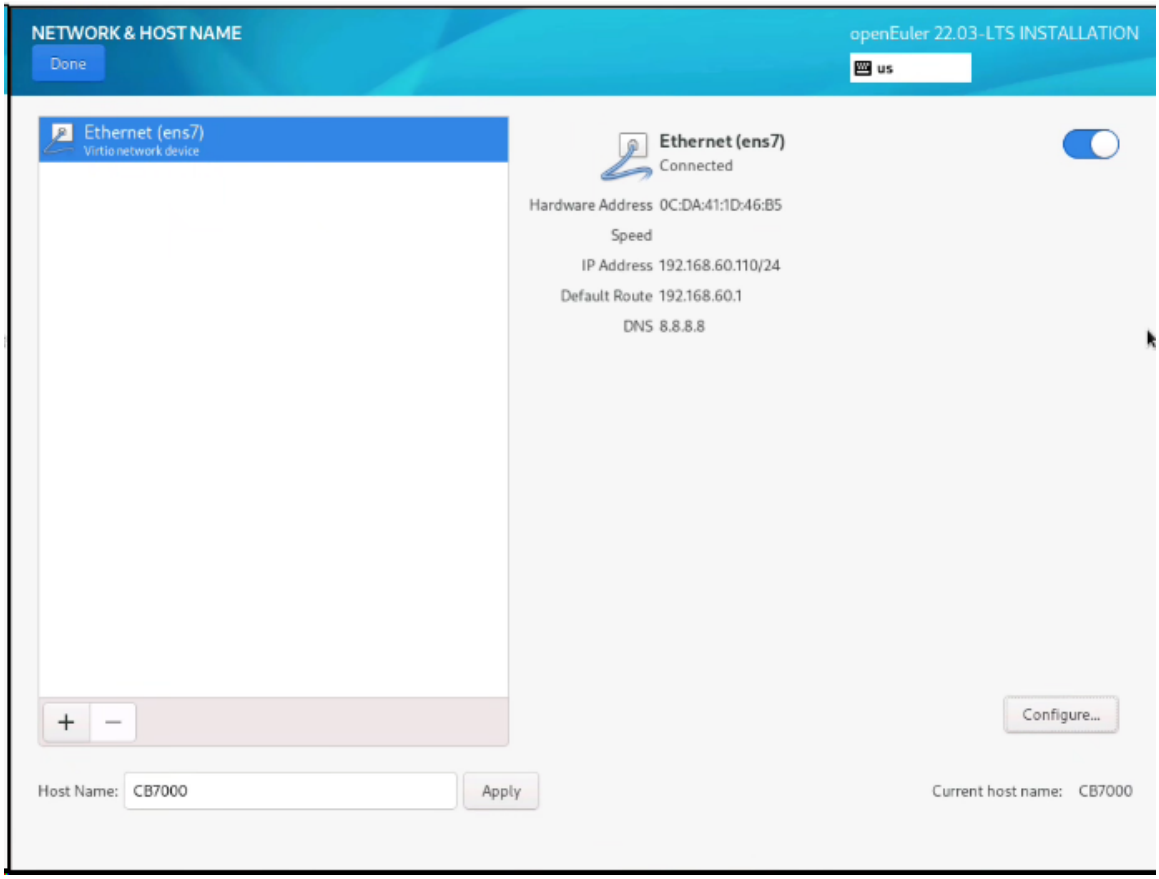

MANUAL PARTITIONING
Done
openEuler 22.03-LTS INSTALLATION
us
New openEuler 22.03-LTS Installation
DATA
/backupdata
openeuler-backupdata
10 GiB
/backupsoft
100 GiB
/home
/var/log
SYSTEM
/
/var
openeuler-backupdata
Mount Point:
/backupdata
Device(s):
0x1af4 (vda)
SUMMARY OF CHANGES
Your customizations will result in the following changes taking effect after you return to the main menu and begin installation:
Order Action Type Device Mount point
1 destroy format Unknown 0x1af4 (vda)
2 create format partition table (MSDOS) 0x1af4 (vda)
3 create device partition vda1 on 0x1af4
4 create format physical volume (LVM) vda1 on 0x1af4
5 create device lvmvg openeuler
6 create device lvmlv openeuler-backupdata
7 create format xfs openeuler-backupdata /backupdata
8 create device lvmlv openeuler-backupsoft
9 create format xfs openeuler-backupsoft /backupsoft
10 create device lvmlv openeuler-var_lib_H3C_CBackup_spaceactivity
11 create format xfs openeuler-var_lib_H3C_CBackup_spaceactivity /var/lib/H3C_CBackup/spac
12 create device lvmlv openeuler-var_log
Cancel & Return to Custom Partitioning
Accept Changes
Note: The settings you make on this screen will not be applied until you click on the main menu's 'Begin installation' button.
AVAILABLE SPACE
79.99 GiB
TOTAL SPACE
480 GiB

5 Configure Root and Network

During OS installation, configure the root account and set the management IP address for the virtual machine. Make sure the network configuration is correct and reachable from the CAS environment and from the future CB web access side.

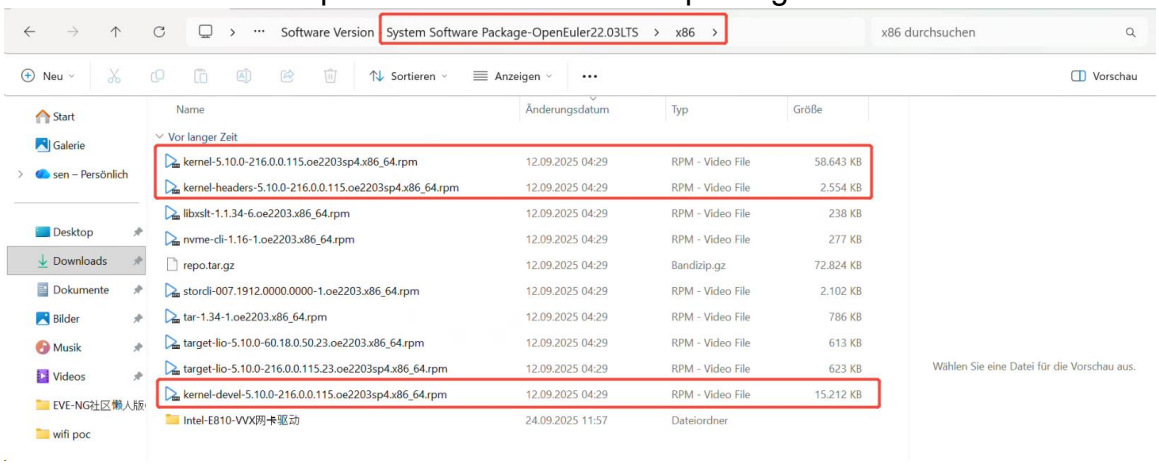
After the installation finishes, verify that the VM can log in with the root user and that the configured IP address is stable. Insert the screenshots from the original document here for the account and network configuration steps.





6 Install RPM Packages

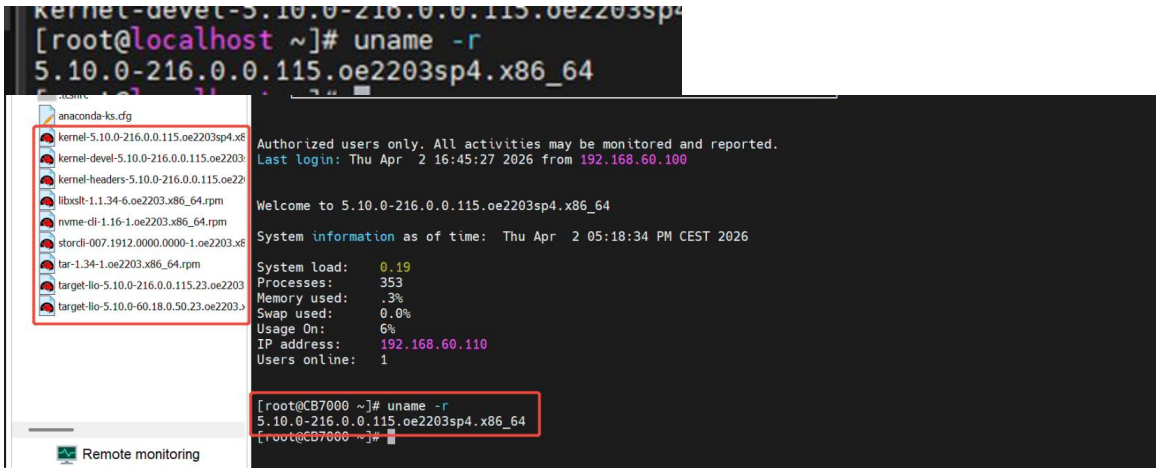
After the VM OS installation is complete, copy the RPM packages for the corresponding operating system from the CB7000 installation package to the server backend. According to your note, the workflow is to update the kernel first and then install the required driver-related RPM packages.



1. Firstly, you need to update the kernel with commands:

rpm -ivh kernel-5.10.0-216.0.0.115.oe2203sp4.x86_64.rpm
rpm -ivh kernel-headers-5.10.0-216.0.0.115.oe2203sp4.x86_64.rpm
rpm -ivh kernel-devel-5.10.0-216.0.0.115.oe2203sp4.x86_64.rpm

after installation, reboot the system, use “uname -r” to double check the kernel version



2. The attached document lists the following example RPM commands:
   rpm -ivh storcli-007.1912.0000.0000-1.oe2203.x86_64.rpm

   rpm -ivh target-lio-5.10.0-216.0.0.115.23.oe2203sp4.x86_64.rpm

   rpm -ivh nvme-cli-1.16-1.oe2203.x86_64.rpm

   rpm -ivh libxslt-1.1.34-6.oe2203.x86_64.rpm

   rpm -ivh tar-1.34-1.oe2203.x86_64.rpm

```
[root@CB7000 ~]# rpm -ivh storcli-007.1912.0000.0000-1.oe2203.x86_64.rpm
Verifying...                          ################################# [100%]
Preparing...                          ################################# [100%]
Updating / installing...
   1:storcli-007.1912.0000.0000-1.oe22################################# [100%]
[root@CB7000 ~]# rpm -ivh libxslt-1.1.34-6.oe2203.x86_64.rpm
warning: libxslt-1.1.34-6.oe2203.x86_64.rpm: Header V3 RSA/SHA1 Signature, key ID b25e7f66: NOKEY
Verifying...                          ################################# [100%]
Preparing...                          ################################# [100%]
Updating / installing...
   1:libxslt-1.1.34-6.oe2203          ################################# [100%]
[root@CB7000 ~]# rpm -ivh tar-1.34-1.oe2203.x86_64.rpm
warning: tar-1.34-1.oe2203.x86_64.rpm: Header V3 RSA/SHA1 Signature, key ID b25e7f66: NOKEY
Verifying...                          ################################# [100%]
Preparing...                          ################################# [100%]
Updating / installing...
   1:tar-2:1.34-1.oe2203              ################################# [100%]
[root@CB7000 ~]# rpm -ivh nvme-cli-1.16-1.oe2203.x86_64.rpm
warning: nvme-cli-1.16-1.oe2203.x86_64.rpm: Header V3 RSA/SHA1 Signature, key ID b25e7f66: NOKEY
Verifying...                          ################################# [100%]
Preparing...                          ################################# [100%]
Updating / installing...
   1:nvme-cli-1.16-1.oe2203           ################################# [100%]
```

After the installation, verify the target package by running the following command:

rpm -qa | grep 5.10.0-216.0.0.115.23.oe2203sp4

If the output contains target-lio-5.10.0-216.0.0.115.23.oe2203sp4.x86_64, the package installation is correct. For the kernel update command itself, follow the CB7000 manual bundled with the release package, as your source note explicitly says the kernel update command should reference the CB7000 handbook.

7 Pre-check Before CB Server Installation

Before installing the CB server, complete all pre-check items. It is required checks and the H3C deployment guide also emphasizes that installation preparation and environment checks must be completed before server installation.

Use the following checklist:

1. Check whether the package permissions meet the requirement and confirm the relevant directory permission is 755 as required in your note by using : ls -ld /backupsoft

```
[root@CB7000 ~]# ls -ld /backupsoft
drwxr-xr-x. 2 root root 6 Apr  2 16:41 /backupsoft
[root@CB7000 ~]# ls -l /bin/systemctl
-rwxr-xr-x. 1 root root 252456 Mar 23  2022 /bin/systemctl
```

2. Check whether the time zone and system time are correct and consistent by using: timedatectl

```
[root@CB7000 ~]# timedatectl
               Local time: Thu 2026-04-02 17:28:33 CEST
           Universal time: Thu 2026-04-02 15:28:33 UTC
                 RTC time: Thu 2026-04-02 15:28:33
                Time zone: Europe/Berlin (CEST, +0200)
System clock synchronized: no
              NTP service: n/a
          RTC in local TZ: no
```

3. Check whether the firewall is enabled.

```
[root@CB7000 ~]# systemctl status firewalld
● firewalld.service - firewalld - dynamic firewall daemon
     Loaded: loaded (/usr/lib/systemd/system/firewalld.service; enabled; vendor preset: enabled)
     Active: active (running) since Thu 2026-04-02 17:18:13 CEST; 11min ago
       Docs: man:firewalld(1)
   Main PID: 1176 (firewalld)
      Tasks: 2 (limit: 407927)
     Memory: 45.8M
     CGroup: /system.slice/firewalld.service
             └─1176 /usr/bin/python3 -s /usr/sbin/firewalld --nofork --nopid

Apr 02 17:18:13 CB7000 systemd[1]: Starting firewalld - dynamic firewall daemon...
Apr 02 17:18:13 CB7000 systemd[1]: Started firewalld - dynamic firewall daemon.
```

4. Check whether UID 2048 is free.

```
[root@CB7000 ~]# id 2048
id: '2048': no such user
```

5. Check whether SELinux is disabled. Use the following commands:

   [root@CB7000 ~]# getenforce
   cat /etc/selinux/config | grep '^SELINUX='
   Enforcing
   SELINUX=enforcing
   [root@CB7000 ~]# vi /etc/selinux/config

   Change SELINUX to disabled

```
# This file controls the state of SELinux on the system.
# SELINUX= can take one of these three values:
#     enforcing - SELinux security policy is enforced.
#     permissive - SELinux prints warnings instead of enforcing.
#     disabled - No SELinux policy is loaded.
SELINUX=disabled
# SELINUXTYPE= can take one of these three values:
#     targeted - Targeted processes are protected,
#     minimum - Modification of targeted policy. Only selected processes are protected.
#     mls - Multi Level Security protection.
SELINUXTYPE=targeted


~
```

```
[root@CB7000 ~]# getenforce
cat /etc/selinux/config | grep '^SELINUX='
Enforcing
SELINUX=enforcing
[root@CB7000 ~]# vi /etc/selinux/config
[root@CB7000 ~]# ^C
[root@CB7000 ~]# cat /etc/selinux/config | grep '^SELINUX='
SELINUX=disabled
[root@CB7000 ~]#
```

6. Check the bzip2 version:
   bzip2 –version

```
[root@CB7000 ~]# bzip2 --version
bzip2, a block-sorting file compressor.  Version 1.0.8, 13-Jul-2019.

   Copyright (C) 1996-2019 by Julian Seward.

   This program is free software; you can redistribute it and/or modify
   it under the terms set out in the LICENSE file, which is included
   in the bzip2 source distribution.

   This program is distributed in the hope that it will be useful,
   but WITHOUT ANY WARRANTY; without even the implied warranty of
   MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.  See the
   LICENSE file for more details.

bzip2: I won't write compressed data to a terminal.
bzip2: For help, type: `bzip2 --help'.
```

- Check the NetworkManager service status:

  systemctl status NetworkManager

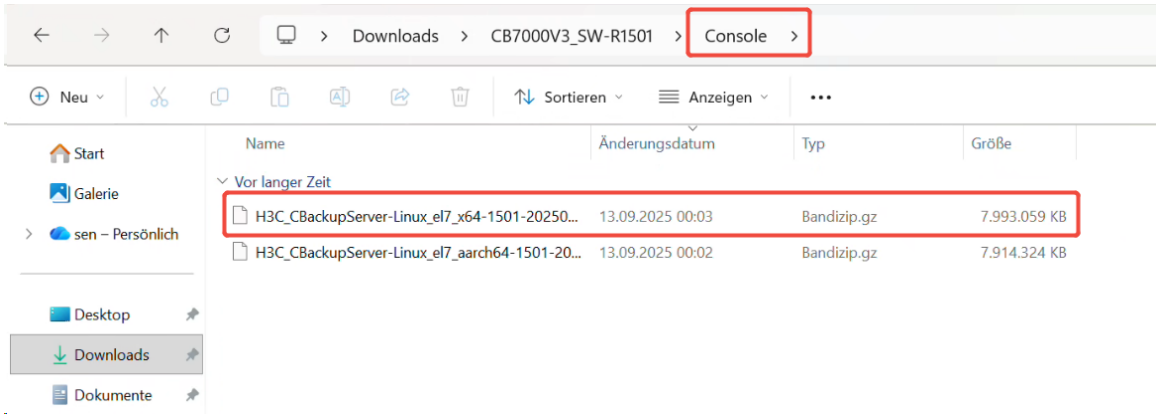
```
[root@CB7000 ~]# systemctl status NetworkManager
● NetworkManager.service - Network Manager
     Loaded: loaded (/usr/lib/systemd/system/NetworkManager.service; enabled; vendor preset: enabled)
     Active: active (running) since Thu 2026-04-02 17:44:58 CEST; 1min 25s ago
       Docs: man:NetworkManager(8)
   Main PID: 1176 (NetworkManager)
      Tasks: 3 (limit: 407927)
     Memory: 9.8M
     CGroup: /system.slice/NetworkManager.service
             └─1176 /usr/sbin/NetworkManager --no-daemon

Apr 02 17:44:58 CB7000 NetworkManager[1176]: <info>  [1775144698.6317] device (ens7): state change: config -> ip-config >
Apr 02 17:44:58 CB7000 NetworkManager[1176]: <info>  [1775144698.6327] device (ens7): state change: ip-config -> ip-chec>
Apr 02 17:44:58 CB7000 NetworkManager[1176]: <info>  [1775144698.6348] device (ens7): state change: ip-check -> secondar>
Apr 02 17:44:58 CB7000 NetworkManager[1176]: <info>  [1775144698.6349] device (ens7): state change: secondaries -> activ>
Apr 02 17:44:58 CB7000 NetworkManager[1176]: <info>  [1775144698.6351] manager: NetworkManager state is now CONNECTED_LO>
Apr 02 17:44:58 CB7000 NetworkManager[1176]: <info>  [1775144698.6352] manager: NetworkManager state is now CONNECTED_SI>
Apr 02 17:44:58 CB7000 NetworkManager[1176]: <info>  [1775144698.6353] policy: set 'ens7' (ens7) as default for IPv4 rou>
Apr 02 17:44:58 CB7000 NetworkManager[1176]: <info>  [1775144698.6360] device (ens7): Activation: successful, device act>
Apr 02 17:44:58 CB7000 NetworkManager[1176]: <info>  [1775144698.6363] manager: NetworkManager state is now CONNECTED_GL>
Apr 02 17:44:58 CB7000 NetworkManager[1176]: <info>  [1775144698.6365] manager: startup complete
lines 1-20/20 (END)
```

In addition, the H3C deployment guide states that the software package permissions and groups must not be modified after extraction, because permission changes can cause installation failure. It also recommends uploading packages to /backupsoft and checking the package integrity with sha256sum before installation.

8 Install the CB Server

After all pre-check items are confirmed, the formal server installation begins. Copy the server software package to /backupsoft and extract it in that directory..



Example commands:

```
cd /backupsoft

tar -zxvf H3CCBackupServer-Linuxel7x64-1501-20250912-release-zhCN-225.tar.gz

cd /backupsoft/H3CCBackupServer
```

Do not add the -o option when extracting the package, because the H3C guide states that this can change file permissions.

8.1 Server installation command

For this single-node converged deployment scenario, use the following command:

```
./install.sh \

--product=Enterprise \

--server-type=MASTER \

--clustertype=single \

--server-mode=All \

--self-ip=192.168.60.110 \

--storage-ip=192.168.60.110 \

--fusedcluster-id=253 \

--fusedcluster-vip=192.168.60.111 \

--mgm-type=ControlNode \

--ntp-server=192.168.60.111 \

--language=English
```

```
[root@CB7000 backupsoft]# ls
H3C_CBackupServer  H3C_CBackupServer-Linux_el7_x64-1501-20250912-release-zh_CN-225.tar.gz
[root@CB7000 backupsoft]# cd H3C_CBackupServer
[root@CB7000 H3C_CBackupServer]# ls
AgentDiscoveryService        DBService                      HyperRCMService              ProtocolTcmuService
AntivirusService             DeploymentService              HyperSLAMgmService           ProxyMgrService
ApprovalFlowService          doc                            HyperSLAWorkerService        ProxyService
Apps                         DrillResourceMgmService        install.sh                   RPCGatewayService
AuthService                  DrmBusinessService             KADService                   SAService
BackupRunnerService          DrmReportService               KeyService                   script
BackupService                etc                            KMCService                   SelfBackupService
CapacityMgmService           EtcdService                    KMSService                   SLAService
ChronyService                FileDistService                LinkMgmService               SNMPService
CloudShiftDRRunnerService    func.sh                        LocatesMgmService            StorageResMgmService
CloudShiftDRService          HCDEService                    logs                         SvrMgmService
ClusterMgmService            HSMDomainMgrService            LogService                   SWANService
ClusterService               HSMNBUAdapterService           MirrorMgrService             TemplateMgrService
CNResourceManagementService  HyperBackupMgmService          MultiStorageSvcMgmService    ThirdPartyService
CommonResourceMgmService     HyperBackupMountWorkerService  NATSService                  TimerService
CommonService                HyperBackupSyncWorkerService   NETKADService                TimeSeriesDataService
ConsulService                HyperBackupWorkerService       NFSService                   uninstall.sh
data                         HyperCDMService                OpenSearchService            VersionDetails
DataMaskingService           HyperJobMgmService             OSRecoveryCabinetMgmService  virtualenv3
DataMgmCenterService         HyperJobWorkerService          os.sh                        WebService
DataSyncService              HyperManagedResourceService    PLogMgmService               WorkflowMgmService
DBDRService                  HyperRCEService                ProtocolMgmService           WorkflowOrchService
[root@CB7000 H3C_CBackupServer]#
```

```
[root@CB7000 H3C_CBackupServer]# ./install.sh \
--product=Enterprise \
--server-type=MASTER \
--clustertype=single \
--server-mode=All \
--self-ip=192.168.60.110 \
--storage-ip=192.168.60.110 \
--fusedcluster-id=253 \
--fusedcluster-vip=192.168.60.111 \
--mgm-type=ControlNode \
--ntp-server=192.168.60.111 \
--language=English
 ***********************************************************
       Welcome to Install H3C_CBackup 1501 Server
 ***********************************************************

 Install KMCService success.
 Install KeyService success.
 Install DBService success.
 Install KADService success.
 Install WebService success.
 Install RPCGatewayService success.
 Install EtcdService success.
 Install NATSService success.
```

8.2 Parameter description

- --product=Enterprise: Specifies the software type as Enterprise.
- --server-type=MASTER: Specifies the first installation node as MASTER; expansion nodes use SLAVE.
- --clustertype=single: Specifies single-node deployment.

- --server-mode=All: Specifies converged mode, in which the management console and storage service are installed on the same server.
- --self-ip=192.168.60.110: Specifies the management IP address of the current node.
- --storage-ip=192.168.60.110: Specifies the storage-side IP address used on the current node.
- --fusedcluster-id=253: Specifies the VRID used for cluster synchronization, with a value range from 1 to 255.
- --fusedcluster-vip=192.168.60.111: Specifies the shared cluster VIP and DB VIP, and this IP must be available in the current LAN.
- --mgm-type=ControlNode: Specifies the node role type as ControlNode.
- --ntp-server=192.168.60.111: Specifies the NTP server IP address. In this example, it is the same as the fused cluster VIP.
- --language=English: Specifies the console language as English.

8.3 Client installation behavior

If --install-client=no is not specified, server and client components are deployed together in this scenario. The H3C deployment guide states that omitting the parameter means that the client is installed on the console environment by default.

This means the CB server OS can also function as a client after deployment.

8.4 Post-installation verification

After the installation is complete, verify the service status with the following command:

```
systemctl -a | grep H3C
```

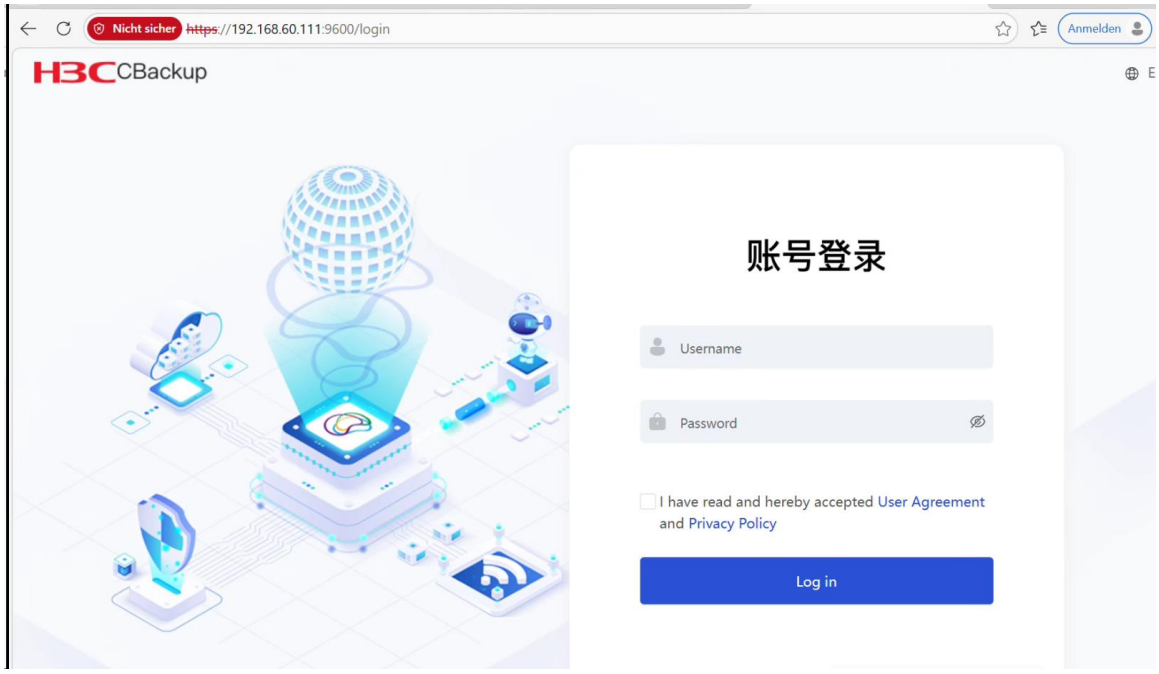
If all services except SvrMgm are running, and the status of SvrMgm is dead, the deployment is successful.

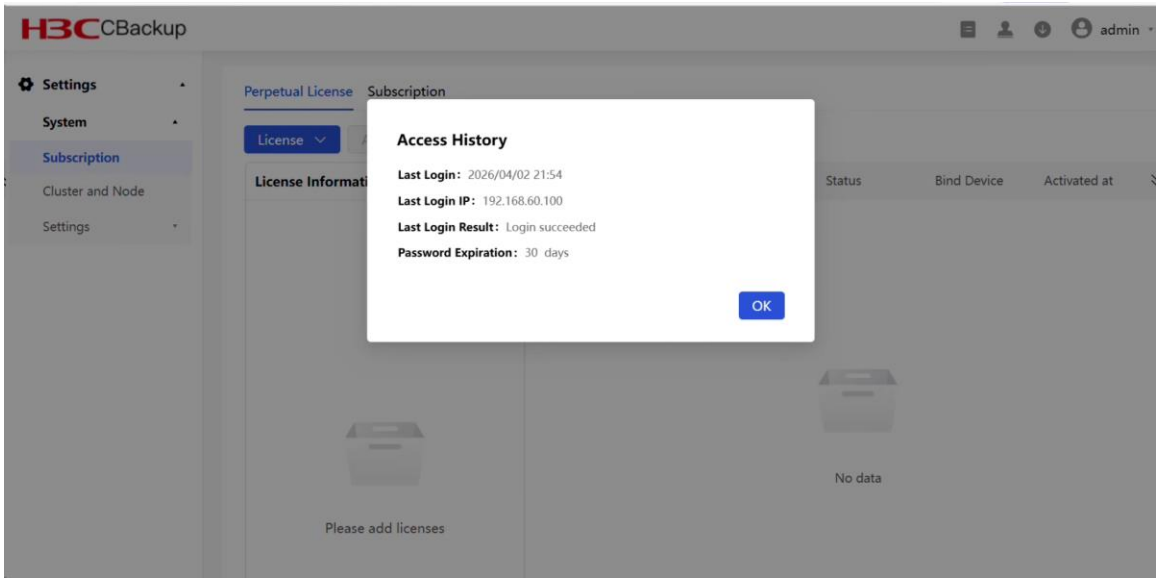
```
********************************** Install success. **********************************
[root@CB7000 H3C_CBackupServer]# systemctl -a | grep H3C
  dev-disk-by\x2did-dm\x2dname\x2dopeneuler\x2dvar_lib_H3C_CBackup_spaceactivity.device
  active   plugged   /dev/disk/by-id/dm-name-openeuler-var_lib_H3C_CBackup_spaceactivity
  dev-mapper-openeuler\x2dvar_lib_H3C_CBackup_spaceactivity.device
  active   plugged   /dev/mapper/openeuler-var_lib_H3C_CBackup_spaceactivity
  dev-openeuler-var_lib_H3C_CBackup_spaceactivity.device
  active   plugged   /dev/openeuler/var_lib_H3C_CBackup_spaceactivity
  var-lib-H3C_CBackup-spaceactivity.mount
  active   mounted   /var/lib/H3C_CBackup/spaceactivity
  H3CAgentDiscoveryService.service
  active   running   H3C_CBackup AgentDiscoveryService
  H3CAntivirusService.service
  active   running   H3C_CBackup AntivirusService
```

9 Log In to the CB Web Console

After deployment is complete, access the CB web console through a browser. The default login account is admin, and the default password is P@ssword123

At the first login, a password change is required before further use of the system. Insert the login and password change screenshots in this section.



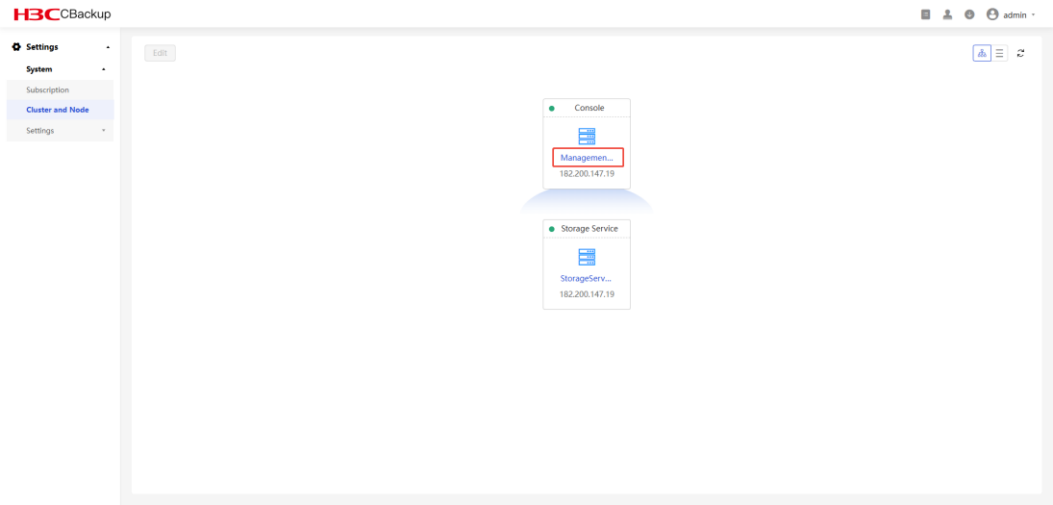


10 License application and import

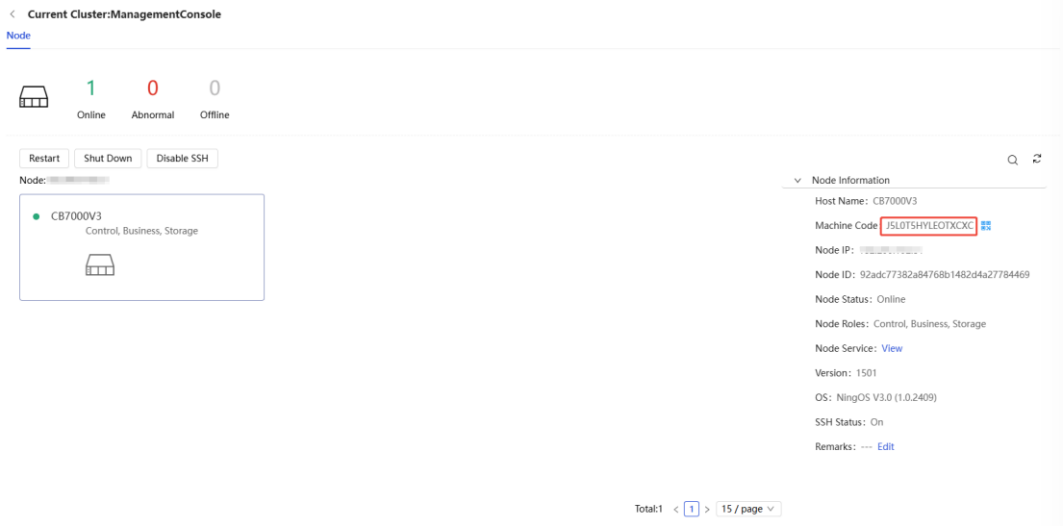
Only permanent licensing mode is provided. Subscription services are not supported. The following example demonstrates test license application and import in permanent licensing mode.

Product license category	Remarks
Test license	After adding and activating the test license, all features are fully accessible.
Formal license	Backup backend capacity package + single tape library authorization + replica data management backend capacity package

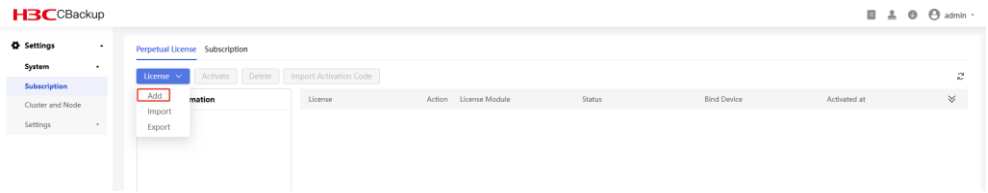
1. After accessing the Web console, access the system > cluster and node page, click the management console to enter the management console information page:

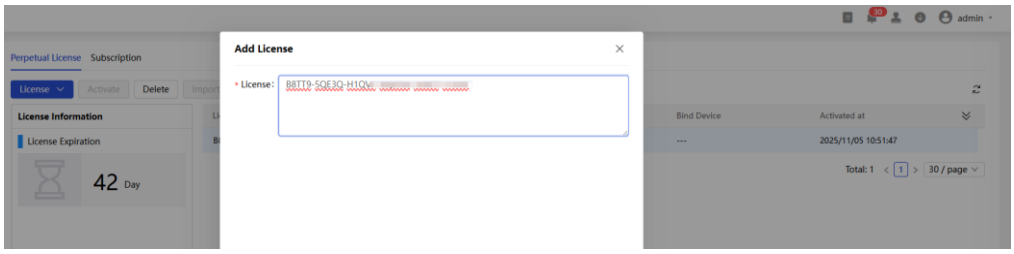


2. Obtain the device code information from the red box below. Follow the company's license application process to obtain the license code and activation key corresponding to the device code of the current application environment.

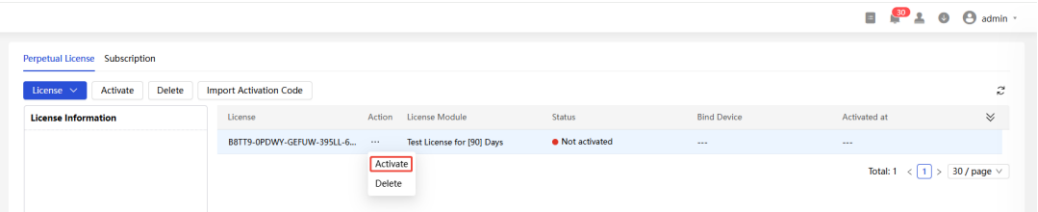


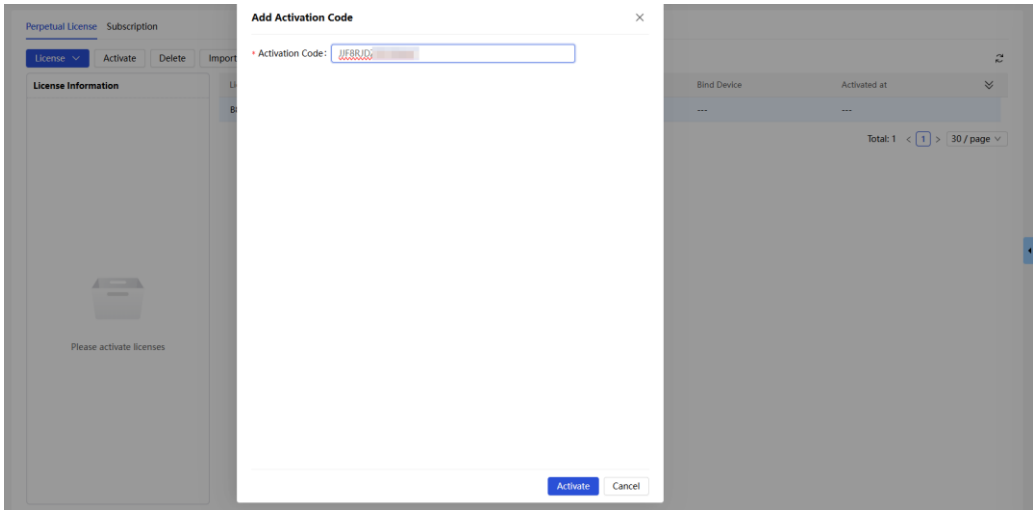
3. On the system > subscription page, click Add in the license code dropdown:



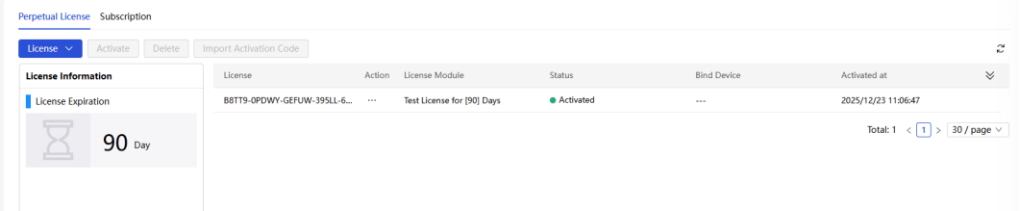


4. After adding the license code, activate it:



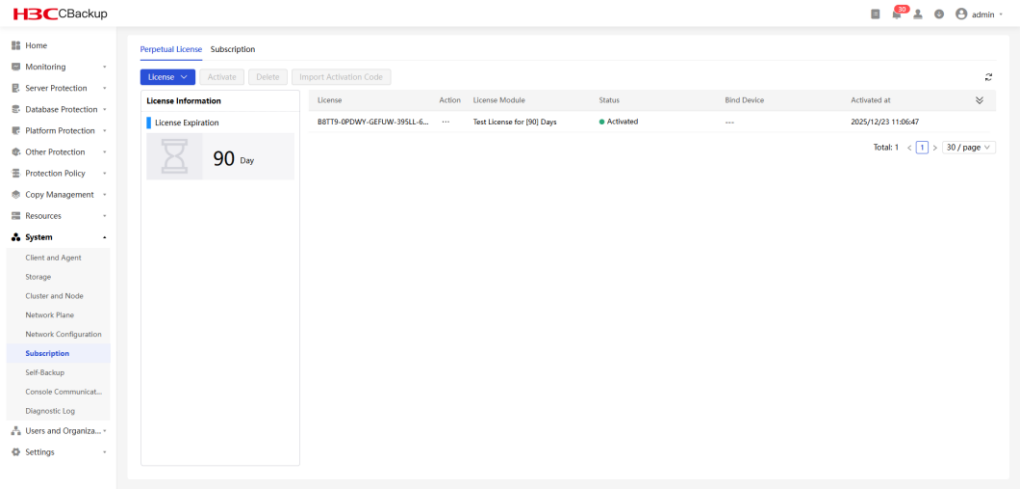


5. The test license is successfully imported.



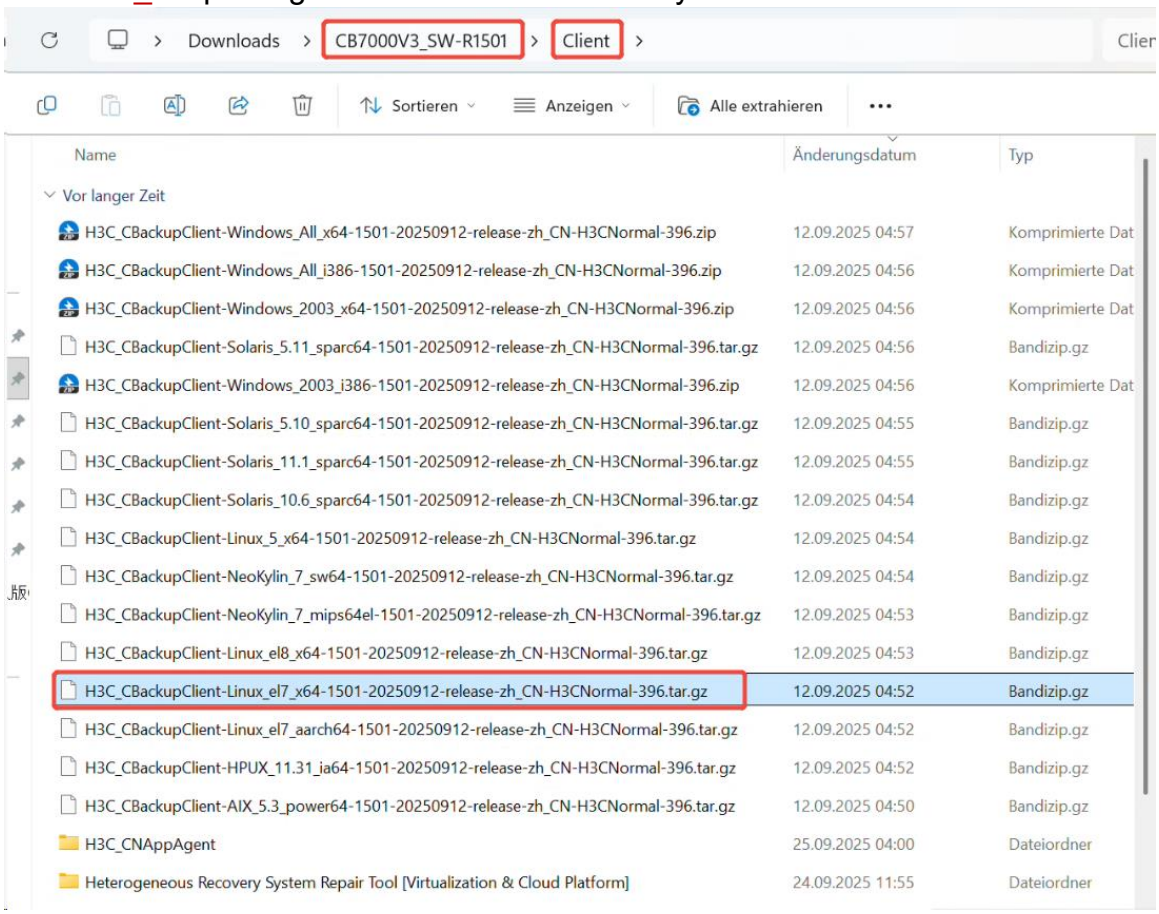
The steps for formal license operations are basically the same as above. Formal licenses are configured in the form of a main authorization module + backend capacity package. When adding the license, first add and activate the main module, then add the backend capacity package authorization.

6. After importing the license, refresh the Web page. The page will display each functional module, and the backup system can now be configured.



11 Install the CB Client on CAS

The CB server OS can already include a client, but the CAS environment still requires separate client installation so that CAS can be managed by CB. Use the Linux_el7 package under the Client directory for CAS.



Perform the following steps on the CAS host:

```
mkdir -p /backupsoft

cd /backupsoft

tar -zvxf H3CCBackupClient-Linuxel7x64-1501-20250912-release-zhCN-H3CNormal-396.tar.gz

cd /backupsoft/H3CCBackupClient/ClientService

./install.sh --silent=y --selfip=192.168.60.4 --serverip=192.168.60.111 --serverport=9614 --addrunner=File
```

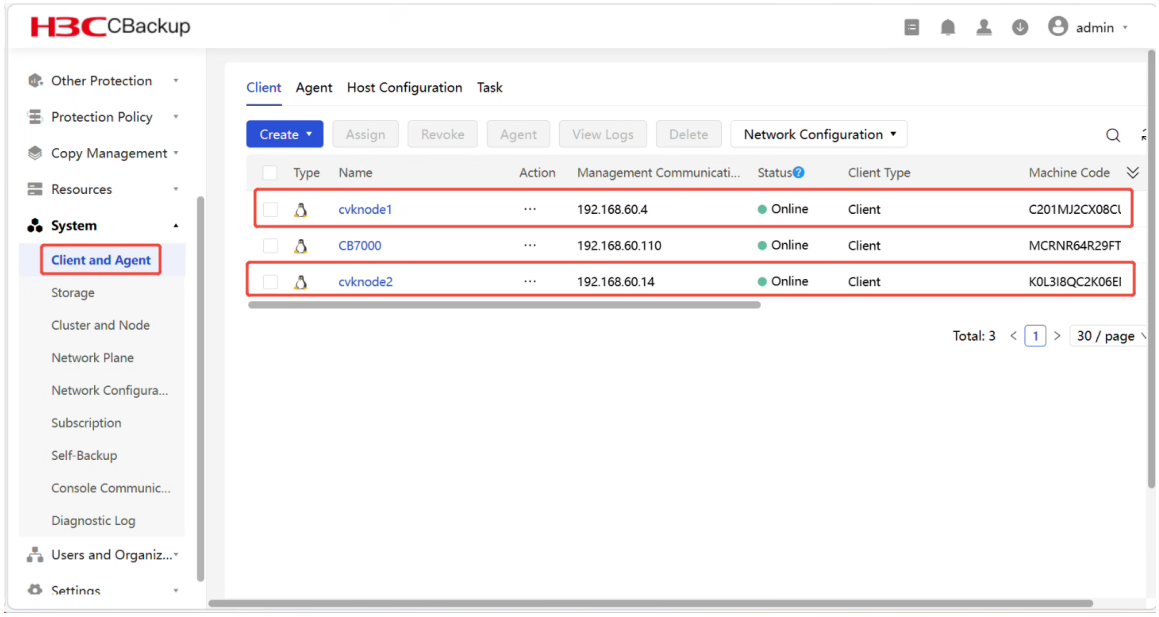
For another CAS host, use the same command with the corresponding host IP address, for example:

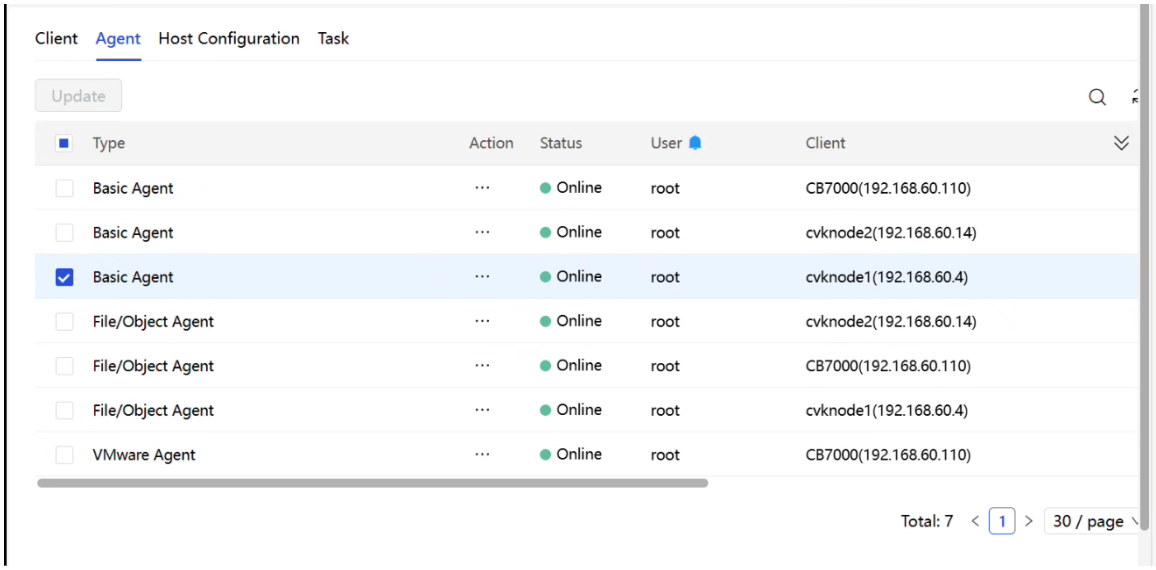
./install.sh --silent=y --selfip=192.168.60.14 --serverip=192.168.60.111 --serverport=9614 --addrunner=File

```
[root@cvknode1 backupsoft]# ls
H3C_CBackupClient  H3C_CBackupClient-Linux_el7_x64-1501-20250912-release-zh_CN-H3CNormal-396.tar.gz
[root@cvknode1 backupsoft]# cd H3C_CBackupClient
[root@cvknode1 H3C_CBackupClient]# ls
ClientService  etc
[root@cvknode1 H3C_CBackupClient]# cd ClientService
[root@cvknode1 ClientService]# ls
BasicRunner  client_cli  ClientService  install.sh  uninstall.sh
[root@cvknode1 ClientService]# ./install.sh --silent=y --selfip=192.168.60.4 --serverip=192.168.60.111 --serverport=9614
--addrunner=File
 Begin install BasicRunner
 Install BasicRunner success
 Begin install File Runner
[INFO] Start downloading the installation package[File]
[INFO] Download the installation package complete
[INFO] Start unzipping the installation package[File]
[INFO] Unzip the installation package is complete
[INFO] Start installation[File]
cd /backupsoft/H3C_CBackupClient/ClientService/BasicRunner/unpack/File && bash install.sh  --silent=y --installpath=/back
upsoft/H3C_CBackupClient
 Main installation succeeded.
[INFO] The installation is complete, the result is success
 List of currently installed apps:
runner_type              osuser                  status
Basic                    root                    alived
File                     root                    alived
[root@cvknode1 ClientService]#
```

According to the H3C guide, --selfip is the local host IP, --serverip is the backup server VIP for internal network onboarding, --serverport defaults to 9614, and --addrunner=File installs the file agent.

After successful installation, the managed CAS client can be viewed in **System > Clients and Agents** on the CB front end.





12 Install the CAS Agent on the Client

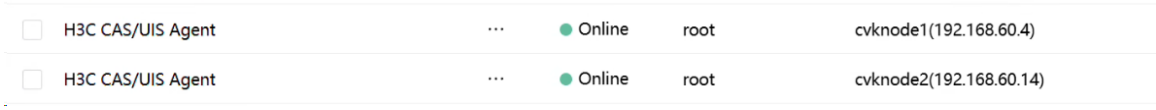
To perform CAS backup, replication, and related operations, install the CAS agent on the client side. Execute the CAS agent installation command from the client_cli path, which is usually under /backupsoft/H3CCBackupClient/ClientService.

Use the following command:

./client_cli install H3CCAS --run_user=root --run_group=root --silent=y

```
[root@cvknode2 ClientService]# ./client_cli install H3CCAS --run_user=root --run_group=root --silent=y
[INFO] Start downloading the installation package[H3CCAS]
[INFO] Download the installation package complete
[INFO] Start unzipping the installation package[H3CCAS]
[INFO] Unzip the installation package is complete
[INFO] Start installation[H3CCAS]
cd /backupsoft/H3C_CBackupClient/ClientService/BasicRunner/unpack/H3CCAS && bash install.sh --run_user=root --run_group=roo
t --silent=y --installpath=/backupsoft/H3C_CBackupClient
 Main installation succeeded.
[INFO] The installation is complete, the result is success
```

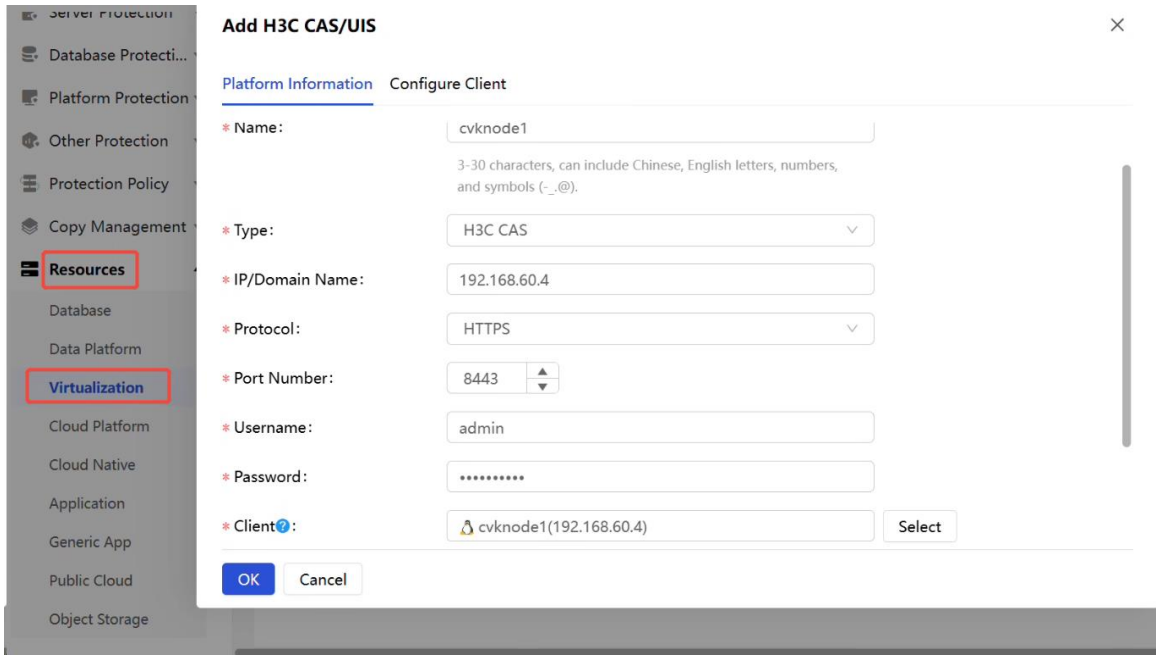
After successful installation, the corresponding CAS agent can be viewed on the CB front end.



13 Add the CAS Platform to CB

Add the CAS platform in **Resources > Virtualization** by entering the CVM IP address and selecting the corresponding client.

After the configuration is complete, the CAS platform is brought under CB management. Insert the corresponding screenshot in this section.



14 Add Local Storage to CB

Creating RAID

1. In any directory on the backup server, execute the command storcli /c0 show to view the drives managed by the current RAID card and check that the drive status is Ugood.

```
Virtual Drives = 1

VD LIST :
=======

-------------------------------------------------------------
DG/VD TYPE  State Access Consist Cache Cac sCC       Size Name
-------------------------------------------------------------
0/0   RAID1 Optl  RW     No      RWBD  -   ON  893.750 GB
-------------------------------------------------------------

VD=Virtual Drive| DG=Drive Group|Rec=Recovery
Cac=CacheCade|OfLn=OffLine|Pdgd=Partially Degraded|Dgrd=Degraded
Optl=Optimal|dflt=Default|RO=Read Only|RW=Read Write|HD=Hidden|TRANS=TransportReady
B=Blocked|Consist=Consistent|R=Read Ahead Always|NR=No Read Ahead|WB=WriteBack
AWB=Always WriteBack|WT=WriteThrough|C=Cached IO|D=Direct IO|sCC=Scheduled
Check Consistency

Physical Drives = 22

PD LIST :
=======

-----------------------------------------------------------------------------------------
EID:Slt DID State DG       Size Intf Med SED PI SeSz Model                       Sp Type
-----------------------------------------------------------------------------------------
67:14     1 Onln   0 893.750 GB SATA SSD Y   N  512B SAMSUNG MZ7L3960HCJR-00B7C U  -
67:15     0 Onln   0 893.750 GB SATA SSD Y   N  512B SAMSUNG MZ7L3960HCJR-00B7C U  -
68:0      3 UGood  -   7.276 TB SATA HDD N   N  512B HGST HUS728T8TALE6L4       D  -
68:1      2 UGood  -   7.276 TB SATA HDD N   N  512B HGST HUS728T8TALE6L4       D  -
68:2     14 UGood  -   7.276 TB SATA HDD N   N  512B ST8000NM017B-2TJ103        D  -
68:3     11 UGood  -   7.276 TB SATA HDD N   N  512B ST8000NM017B-2TJ103        D  -
68:4     17 UGood  -   7.276 TB SATA HDD N   N  512B ST8000NM017B-2TJ103        D  -
68:5     21 UGood  -   7.276 TB SATA HDD N   N  512B ST8000NM017B-2TJ103        D  -
68:6     23 UGood  -   7.276 TB SATA HDD N   N  512B ST8000NM017B-2TJ103        D  -
68:7     19 UGood  -   7.276 TB SATA HDD N   N  512B ST8000NM017B-2TJ103        D  -
68:8     25 UGood  -   7.276 TB SATA HDD N   N  512B ST8000NM017B-2TJ103        D  -
68:9     16 UGood  -   7.276 TB SATA HDD N   N  512B ST8000NM017B-2TJ103        D  -
68:10    24 UGood  -   7.276 TB SATA HDD N   N  512B ST8000NM017B-2TJ103        D  -
68:11    36 UGood  -   7.276 TB SATA HDD N   N  512B ST8000NM017B-2TJ103        D  -
68:12    31 UGood  -   7.276 TB SATA HDD N   N  512B ST8000NM017B-2TJ103        D  -
68:13    34 UGood  -   7.276 TB SATA HDD N   N  512B ST8000NM017B-2TJ103        D  -
68:14    39 UGood  -   7.276 TB SATA HDD N   N  512B ST8000NM017B-2TJ103        D  -
68:15    40 UGood  -   7.276 TB SATA HDD N   N  512B ST8000NM017B-2TJ103        D  -
68:16    41 UGood  -   7.276 TB SATA HDD N   N  512B ST8000NM017B-2TJ103        D  -
68:17    35 UGood  -   7.276 TB SATA HDD N   N  512B ST8000NM017B-2TJ103        D  -
68:18    15 UGood  -   7.276 TB SATA HDD N   N  512B ST8000NM017B-2TJ103        D  -
68:19    38 UGood  -   7.276 TB SATA HDD N   N  512B ST8000NM017B-2TJ103        D  -
-----------------------------------------------------------------------------------------
```

2. Execute the command to create storcli /c0 add vd r6 size=all drives=68:0-19, where 67 is the EID and 0-19 are the Slts, which can be obtained from the above figure:

```
[root@CB7000V3 ~]# storcli /c0 add vd r6 size=all drives=68:0-19
CLI Version = 007.2612.0000.0000 June 13, 2023
Operating system = Linux 5.10.0-136.12.0.86.4.nos1.x86_64
Controller = 0
Status = Success
Description = Add VD Succeeded.


[root@CB7000V3 ~]#
```

3. After creation is complete, use the storcli /c0 show command to view the created RAID and the status of the drives:

```
---------------------------------------------------------------
DG/VD TYPE  State Access Consist Cache Cac sCC       Size Name
---------------------------------------------------------------
0/0   RAID1 Optl  RW     No      RWBD  -   ON  893.750 GB
1/1   RAID6 Optl  RW     No      RWBD  -   ON  130.983 TB
---------------------------------------------------------------

VD=Virtual Drive| DG=Drive Group|Rec=Recovery
Cac=CacheCade|OfLn=OffLine|Pdgd=Partially Degraded|Dgrd=Degraded
Optl=Optimal|dflt=Default|RO=Read Only|RW=Read Write|HD=Hidden|TRANS=TransportReady
B=Blocked|Consist=Consistent|R=Read Ahead Always|NR=No Read Ahead|WB=WriteBack
AWB=Always WriteBack|WT=WriteThrough|C=Cached IO|D=Direct IO|sCC=Scheduled
Check Consistency

Physical Drives = 22

PD LIST :
=======

-------------------------------------------------------------------------------------
EID:Slt DID State DG       Size Intf Med SED PI SeSz Model                      Sp Type
-------------------------------------------------------------------------------------
67:14     1 Onln   0 893.750 GB SATA SSD Y   N  512B SAMSUNG MZ7L3960HCJR-00B7C U  -
67:15     0 Onln   0 893.750 GB SATA SSD Y   N  512B SAMSUNG MZ7L3960HCJR-00B7C U  -
68:0      3 Onln   1   7.276 TB SATA HDD N   N  512B HGST HUS728T8TALE6L4       U  -
68:1      2 Onln   1   7.276 TB SATA HDD N   N  512B HGST HUS728T8TALE6L4       U  -
68:2     14 Onln   1   7.276 TB SATA HDD N   N  512B ST8000NM017B-2TJ103        U  -
68:3     11 Onln   1   7.276 TB SATA HDD N   N  512B ST8000NM017B-2TJ103        U  -
68:4     17 Onln   1   7.276 TB SATA HDD N   N  512B ST8000NM017B-2TJ103        U  -
68:5     21 Onln   1   7.276 TB SATA HDD N   N  512B ST8000NM017B-2TJ103        U  -
68:6     23 Onln   1   7.276 TB SATA HDD N   N  512B ST8000NM017B-2TJ103        U  -
68:7     19 Onln   1   7.276 TB SATA HDD N   N  512B ST8000NM017B-2TJ103        U  -
68:8     25 Onln   1   7.276 TB SATA HDD N   N  512B ST8000NM017B-2TJ103        U  -
68:9     16 Onln   1   7.276 TB SATA HDD N   N  512B ST8000NM017B-2TJ103        U  -
68:10    24 Onln   1   7.276 TB SATA HDD N   N  512B ST8000NM017B-2TJ103        U  -
68:11    36 Onln   1   7.276 TB SATA HDD N   N  512B ST8000NM017B-2TJ103        U  -
68:12    31 Onln   1   7.276 TB SATA HDD N   N  512B ST8000NM017B-2TJ103        U  -
68:13    34 Onln   1   7.276 TB SATA HDD N   N  512B ST8000NM017B-2TJ103        U  -
68:14    39 Onln   1   7.276 TB SATA HDD N   N  512B ST8000NM017B-2TJ103        U  -
68:15    40 Onln   1   7.276 TB SATA HDD N   N  512B ST8000NM017B-2TJ103        U  -
68:16    41 Onln   1   7.276 TB SATA HDD N   N  512B ST8000NM017B-2TJ103        U  -
68:17    35 Onln   1   7.276 TB SATA HDD N   N  512B ST8000NM017B-2TJ103        U  -
68:18    15 Onln   1   7.276 TB SATA HDD N   N  512B ST8000NM017B-2TJ103        U  -
68:19    38 Onln   1   7.276 TB SATA HDD N   N  512B ST8000NM017B-2TJ103        U  -
-------------------------------------------------------------------------------------
```

4. Check the disks in the operating system using lsblk to see the created logical drive:

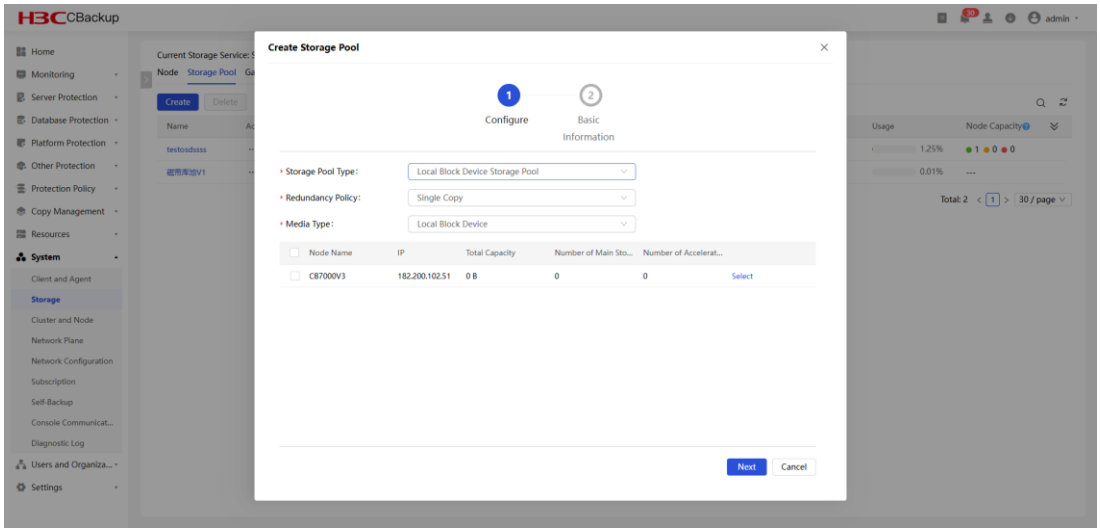
```
[root@CB7000V3 ~]# lsblk
NAME                        MAJ:MIN RM   SIZE RO TYPE MOUNTPOINTS
sda                           8:0    0 893.8G  0 disk
├─sda1                        8:1    0   600M  0 part /boot/efi
├─sda2                        8:2    0     1G  0 part /boot
└─sda3                        8:3    0 892.2G  0 part
  ├─cb7000v3-root           253:0    0 638.2G  0 lvm  /
  ├─cb7000v3-swap           253:1    0     4G  0 lvm
  ├─cb7000v3-backupdata     253:2    0    10G  0 lvm  /backupdata
  ├─cb7000v3-spaceactivity 253:3    0   100G  0 lvm  /var/lib/H3C_CBackup/spaceactivity
  ├─cb7000v3-var_log        253:4    0   100G  0 lvm  /var/log
  └─cb7000v3-var            253:5    0    40G  0 lvm  /var
sdb                           8:16   0   131T  0 disk
sr0                          11:0    1  1024M  0 rom
sr1                          11:1    1  1024M  0 rom
nvme0n1                     259:0    0   2.9T  0 disk
nvme1n1                     259:1    0   2.9T  0 disk
[root@CB7000V3 ~]#
```

Create a storage pool

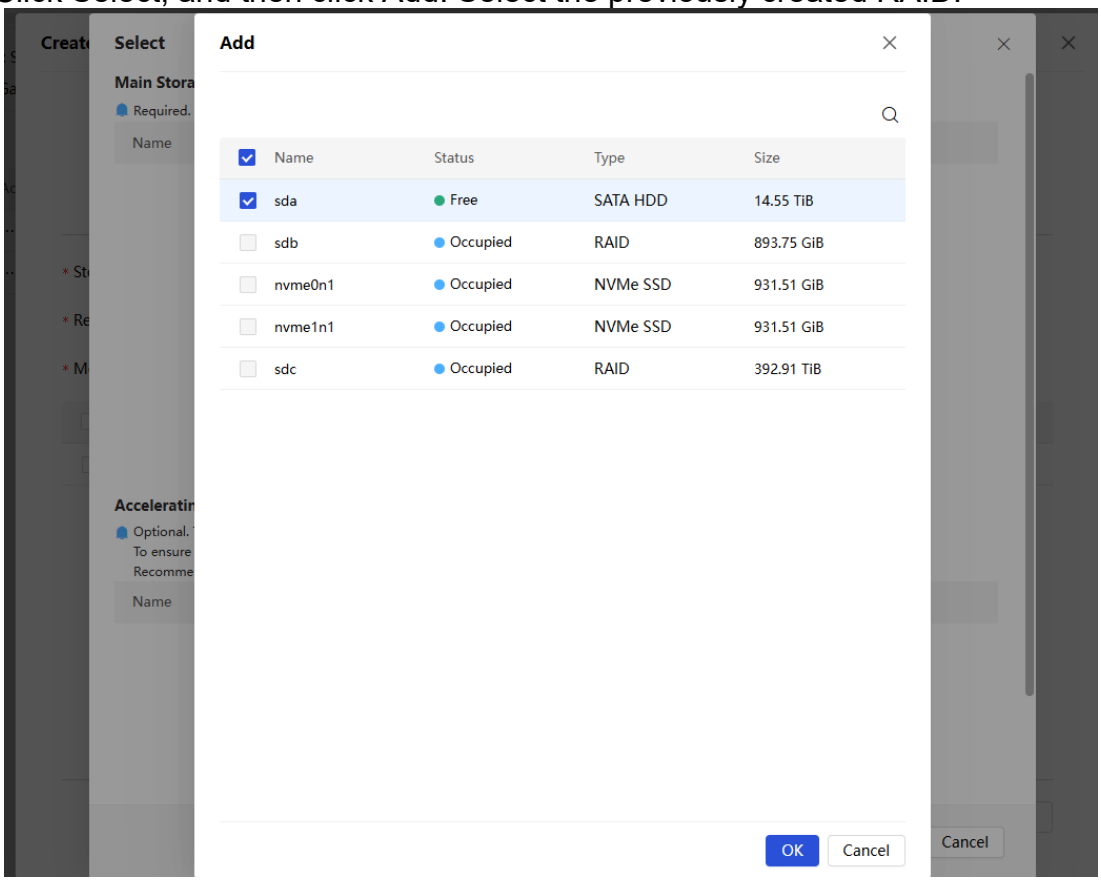
This section describes how to create a local block device storage pool. For other storage pools and third-party storage creation requirements, see *H3C UniStor CB7000V3 R1501 User Guide*.

1. After the RAID configuration is completed, on the system settings > storage > storage pool page, click Create. On the create storage pool page, set the storage pool type to local block device storage pool, the

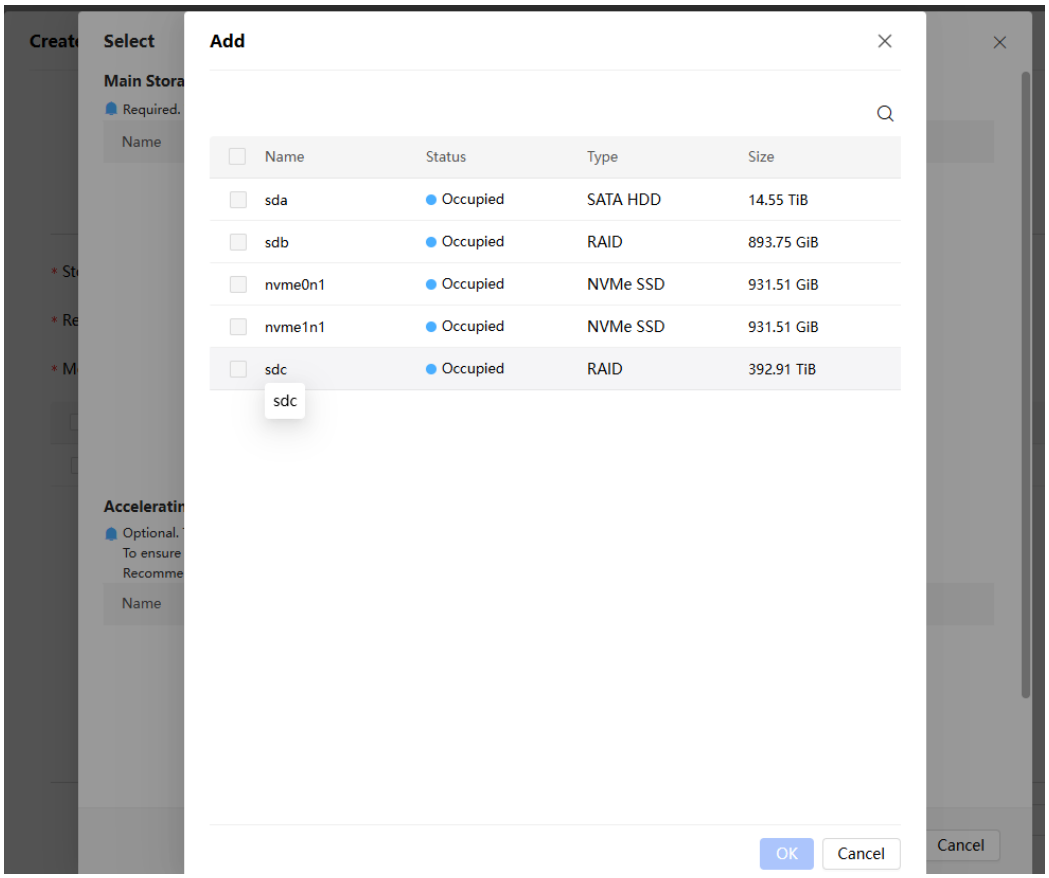
redundancy policy to single replica, and the media type to local block device.



2. Click Select, and then click Add. Select the previously created RAID.



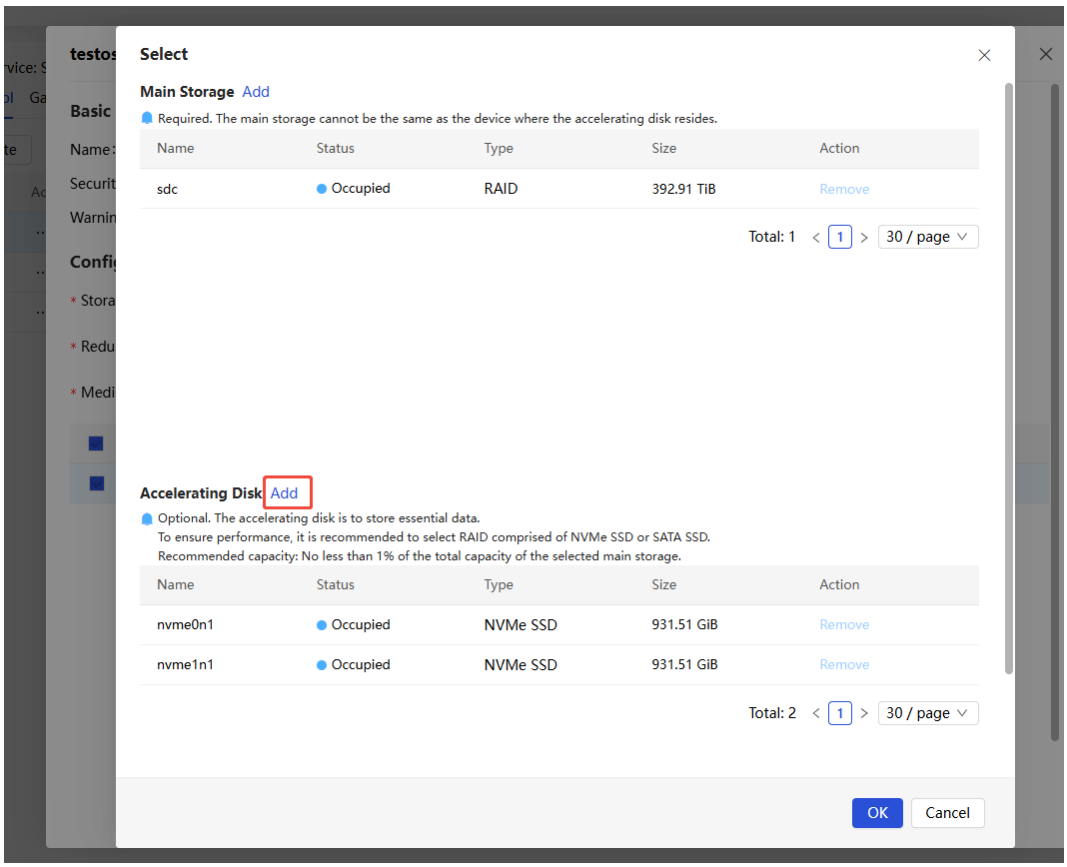
If you cannot select RAID, execute the dd if=/dev/zero of=/dev/sdc bs=10M count=1 command in the backend OS of the backup server, wait for three to five minutes, and then select RAID again.



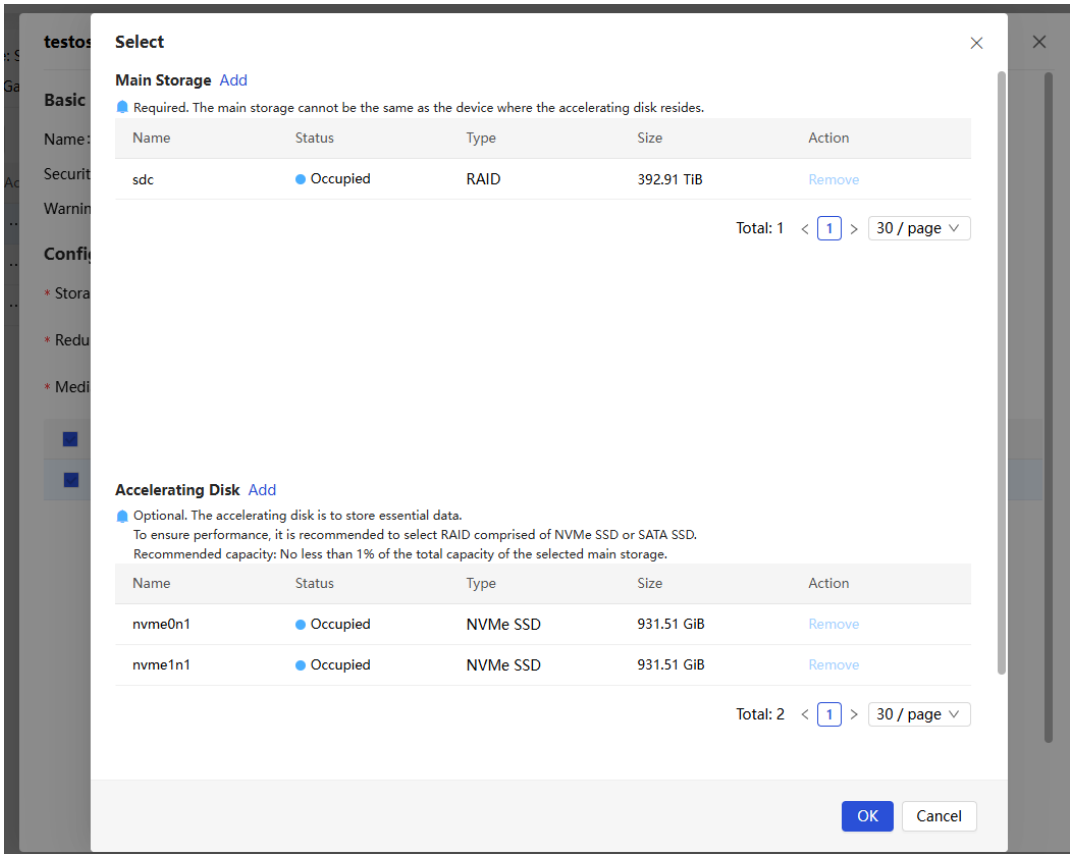
3. If the server is configured with NVMe drives as acceleration disks, it is necessary to set up a software RAID for the NVMe SSD group in the server backend. The command to configure the software RAID is: sudo mdadm --create /dev/md0 --level=1 --raid-devices=2 /dev/nvme0n1 /dev/nvme1n1. Here, the level uses RAID1 for redundancy, and the two drives, nvme0n1 and nvme1n1, are the actual NVMe drive identifiers found in the environment using the lsblk command.

```
[root@CB7000V3 ~]# sudo mdadm --create /dev/md0 --level=1 --raid-devices=2 /dev/nvme0n1 /dev/nvme1n1
mdadm: Note: this array has metadata at the start and
    may not be suitable as a boot device.  If you plan to
    store '/boot' on this device please ensure that
    your boot-loader understands md/v1.x metadata, or use
    --metadata=0.90
Continue creating array? y
mdadm: Defaulting to version 1.2 metadata
mdadm: array /dev/md0 started.
[root@CB7000V3 ~]# lsblk
NAME                      MAJ:MIN RM   SIZE RO TYPE  MOUNTPOINTS
sda                         8:0    0 893.8G  0 disk
├─sda1                      8:1    0   600M  0 part  /boot/efi
├─sda2                      8:2    0     1G  0 part  /boot
└─sda3                      8:3    0 892.2G  0 part
  ├─cb7000v3-root         253:0    0 638.2G  0 lvm   /
  ├─cb7000v3-swap         253:1    0     4G  0 lvm
  ├─cb7000v3-backupdata   253:2    0    10G  0 lvm   /backupdata
  ├─cb7000v3-spaceactivity 253:3   0   100G  0 lvm   /var/lib/H3C_CBackup/spaceactivity
  ├─cb7000v3-var_log      253:4    0   100G  0 lvm   /var/log
  └─cb7000v3-var          253:5    0    40G  0 lvm   /var
sdb                         8:16   1  57.7G  0 disk
sdc                         8:32   0  50.9T  0 disk
nvme0n1                   259:0    0   2.9T  0 disk
└─md0                       9:0    0   2.9T  0 raid1
nvme1n1                   259:1    0   2.9T  0 disk
└─md0                       9:0    0   2.9T  0 raid1
[root@CB7000V3 ~]#
```

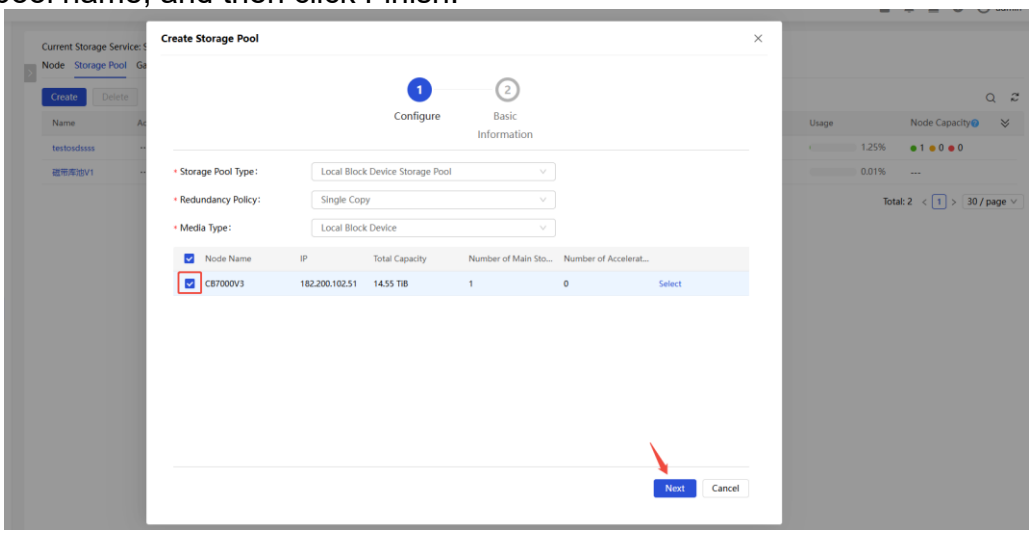
4. At the acceleration disk, click add and select the configured NVMe disk to create a software RAID:

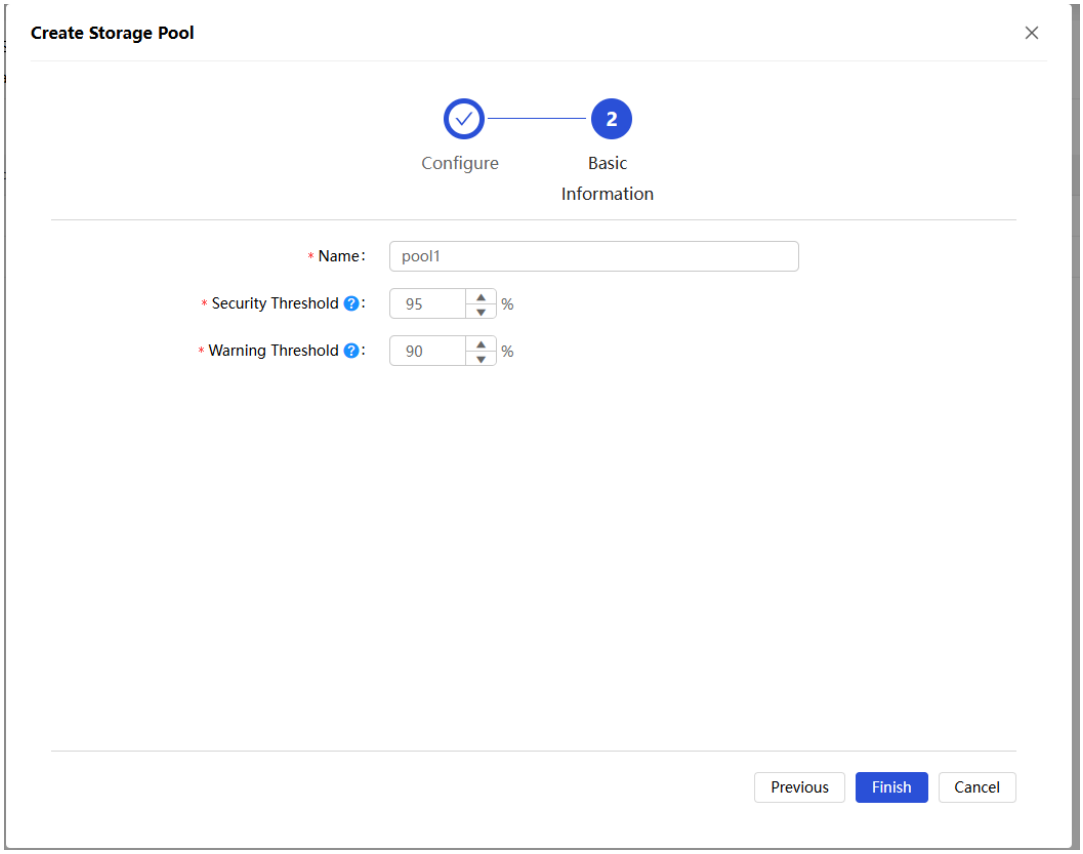


Click OK.

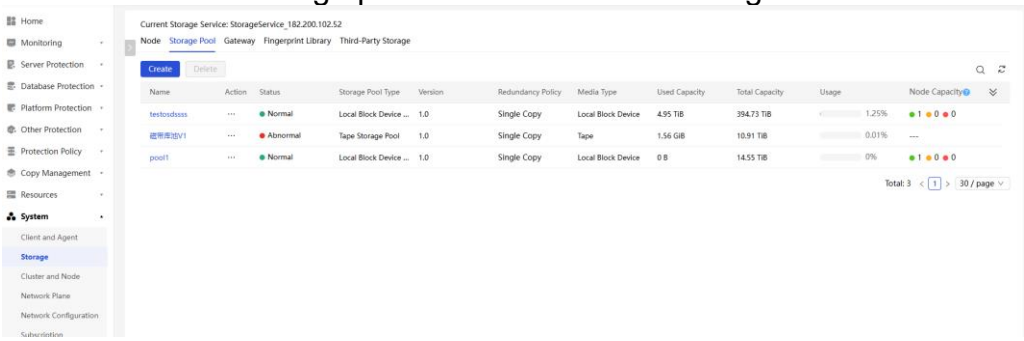


5. Select the configured storage node, click Next, configure the storage pool name, and then click Finish.





6. After configuration is complete, wait about 30 seconds and refresh the page. As shown in the figure below, the configuration is complete. You can click the storage pool name to view the configuration details.



The document is continuously being updated. If you have any questions or concerns, please contact:
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