Cloud Computing 厉梦如 2020-03-30 Published

## **Network Topology**

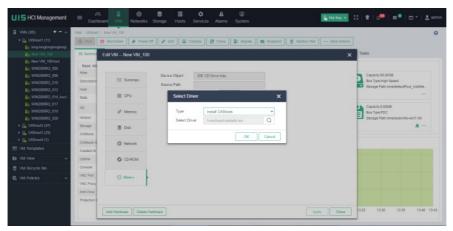
After installing an operating system for the VM, you must also install CAStools for the VM for the follo wing purposes:

- Obtain CPU usage, memory usage, and process monitoring information about the VM.
- Provide the drivers that are required for the VM to use high-speed disks and NICs.

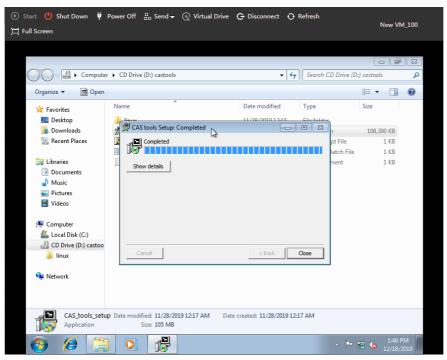
For the compatibility of CAStools and operating systems, seeH3C[ge1] UIS Server Virtualization Sof tware and Hardware Compatibility.

- 1. Installing CAStools for a Linux or Windows operating system
- (1) Log in to UIS, select the VM, and then click Edit.
- (2) Click the CD-ROM tab, and then click Connect.
- (3) Select Install CAStools from the Type list, and then click OK.

Figure 1 Installing CAStools



(4) If the operating system type is Windows, log in to the VM from the console, double-click the CAS\_ tools\_setup installation program, and then follow the installation wizard to finish CAStools installation. Figure 2 Finishing CAStools installation



(5) If the operating system type is Linux, log in to the operating system as a root user, and then execu te the following commands:

The root password is what you specified during operating system installation. [root@localhost~]# mount /dev/cdrom /media

```
mount: /dev/sr0 is write-protected, mounting read-only
```

[root@localhost~]# cd /media

[root@localhost media]# Is

CAS\_tools\_setup.exe CAS\_tools\_upgrade,js linux query.bat readme.txt

[root@localhost media]# cd linux

[root@localhost linux]# sh ./CAS tools install.sh

Preparing... ###############[100%]

Updating / installing...

1:qemu-ga-6.0.2.0-1 ################[100%]

Non-SUSE

 $\label{lem:condition} Created symlink from /etc/system/system/multi-user.target.wants/qemu-ga.service \ to /usr/lib/system/demu-ga.service.$ 

(6) Restart the VM after CAStools installation is finished.

## 2. Installing CAStools for a FreeBSD operating system

(1) Log in to the operating system as a root user.

The root password is what you specified during operating system installation.

(2) Based on the FreeBSD ISO image file, execute the following commands to installpkg and python:

root@:~ # mkdir /dist

root@:~ # mount -t cd9660 /dev/cd0/dist

root@:~ # setenv REPOS\_DIR /dist/packages/repos

root@:~ # pkg bootstrap

The package management tool is not yet installed on your system.

Do you want to fetch and install it now? [y/n]:y

Bootstrapping pkg from file:///dist/packages/FreeBSD:11:amd64, please wait...

Installing pkg-1.8.7\_1...

Extracting pkg-1.8.7\_1:100%

root@:~ # pkg install python

Updating FreeBSD\_install\_cdrom repository catalogue...

Fetching meta.tzx:100% 260 B 0.3KB/s 00:01

Fetching packagesite.txz:100% 244 KiB 249.9Kb/s 00:01

Processing entries:100%

FreeBSD\_install\_cdrom repository update completed.1075 packages processed.

Updating database digests format:100%

Checking intergrity...done(0 conflicting)

The following 7 package(s) will be affected (of 0 checked):

New packages to be INSTALLED:

python:2.7\_2,2

python27:2.7.12

libffi:3.2.1

indexinfo:0.2.4

readline:6.3.8

gettext-runtime:0.19.8.1

python2:2\_3

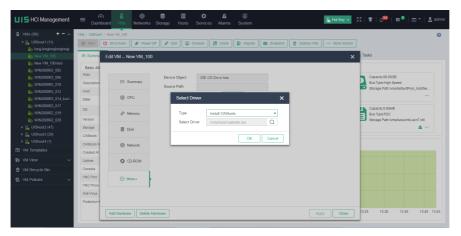
Number of packages to be installed:7

The process will require 69 MiB more space.

Proceed with this action?[y/n]:y

- (3) Log in to UIS, select the VM, and then click Edit.
- (4) Click the CD-ROM tab, and then click Connect.
- (5) Select Install CAStools from the Type list, and then click  $\ensuremath{\mathsf{OK}}.$

Figure 3 Installing CAStools



(6) Open the VM"s console, and then execute the following commands:

root@:~ # mount -t cd9660 /dev/cd0 /media/

root@:~ # cd /media/linux/

root@:~ # ./CAS\_tools\_install.sh

Installing qemu-ga-6.0.2.0-amd64...

Extracting qemu-ga-6.0.2.0-amd64: 100%

Message from qemu-ga-6.0.2.0-amd64:

Qemu-ga has been installed successfully, Use "service qemu-ga start" to start!

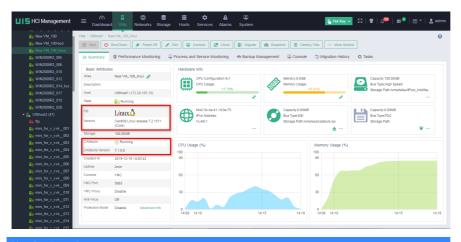
## 3. Verifying the installation

This section uses a VM installed with a CentOS7.2 operating system as an example.

To verify the installation:

- (1) Enter the summary information page of the VM.
- (2) Verify that the operating system type of the VM is Linux, the operating system version isCentOS Linux release 7.2.1511 (Core), the CAStools state is running, and the CAStools version is7.1.0.0[ge1].

Figure 4 Verifying the installation



Key Configuration