Install Cisco NFVIS

Install NFVIS on BEx7K/CE1400V appliances based out of UCS-C series servers

This task installs Cisco NFVIS on BEx7K/CE1400V appliances based out of UCS-C series servers by configuring boot order, mapping virtual media, and completing the installation process through CIMC.

UCS-C series devices has to configure RAID disk group before installing NFVIS. UCS-C supports only single RAID disk group for fresh installation.

Procedure

Step 1 Log in to CIMC.

The recommended CIMC version for UCS-C Series Servers and Cisco CSP platforms is 3.0(3c) or later version.

The recommended CIMC version for Cisco UCS-C Series Rack Servers is 4.3(2) or later versions.

Step 2 To launch KVM Console, Select **Launch KVM** from the CIMC homepage.

You can choose Java or HTML based KVM. It is recommnded to use HTML based KVM. Ensure that the pop-up blocker is disabled as KVM Console will open in a separate window.

Step 3 To map virtual devices from the KVM Console:

a) To know if a downloaded file is safe to install, it is essential to compare the file's checksum before using it. Verifying the checksum helps ensure that the file was not corrupted during network transmission, or modified by a malicious third party before you downloaded it. For more information see, Virtual Machine Security.

b) Select **Virtual Media** and then **Activate Virtual Devices**.

c) Select **Virtual Media** again and then **Map CD/DVD**. Browse and select the Cisco NFVIS ISO image. Click **Open** and Map Drive to mount the image.

d) Select **Virtual Media** again to ensure the NFVIS ISO image is now mapped to CD/DVD.

Step 4 To configure boot order:

a) From the **CIMC Compute**, select **BIOS**.

b) Select **Configure Boot Order** and the **Configure Boot Order** dialog box appears.
c) Select **Advanced**.
d) The **Add Boot Device** page appears. Select **Add Virtual Media**, and the **Add Virtual Media** dialog box appears.
e) Enter a name and select **KVM Mapped DVD**. Set state to **Enabled** and order as 1, and **Save Changes**.
f) The **Add Boot Device** page appears again, select **Add Local HDD**, and **Add Virtual Media** dialog box appears.
g) Enter a name, set state to **Enabled** and order as 2, and **Save Changes**.
h) Click **Close**.

Step 5 Power cycle server to start the installation:

From CIMC homepage, select **Host Power**. Reboot the server by selecting the **Power Off** option. After the server is down, select the **Power On** option.

When the server reboots, the KVM console automatically installs Cisco NFVIS from the virtual CD/DVD drive. The entire installation might take 30 minutes to one hour to complete.

Step 6 After the installation is complete, the system automatically reboots from the hard drive. Log into the system when the command prompt **NFVIS login** is displayed after the reboot.

Use **admin** as the login name and **Admin123#** as the default password.

Note
The system prompts you to change the default password at the first login attempt. You must set a strong password as per the on-screen instructions to proceed with the application. You cannot run API commands or proceed with any tasks unless you change the default password at the first login. The API commands will return 401 unauthorized error if the default password is not reset.

Step 7 Verify the installation using the System API, CLI, or by viewing the system information from the Cisco NFVIS portal.

Step	Phase	Description
1	Pre-install	Preparing installation, verifying packages, and detecting hardware.
2	Partitioning	Partitioning disks and preparing storage layout
3	Package Install	Installing packages with live package counter and progress tracking
4	Configuration	Configuring system during %post --nochroot stage
5	Finalization	Preparing reboot during %post --chroot stage
6	First Boot	Rebooting system and starting NFVIS services

Cisco NFVIS is successfully installed on the BEx7K/CE1400V appliances based out of UCS-C series servers and ready for configuration and virtual machine deployment.

Default system configuration

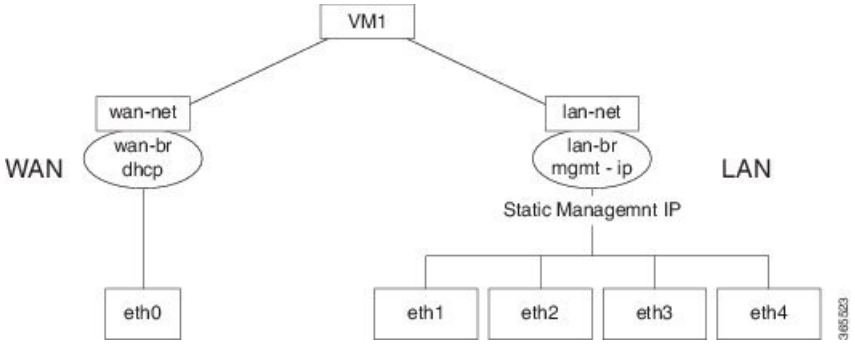
Default system configuration on the Cisco BEx7K/CE1400V appliances based out of UCS-C series servers is a network setup that

- configures networks in Cisco NFVIS to allow inbound and outbound traffic
- enables VMs to be service chained, and
- creates default networks and bridges that cannot be deleted.

Network configuration details

This diagram illustrates the default network configuration:

Figure 1: Default network configuration



These networks and bridges are created by default and cannot be deleted. You can configure more as required:

- A LAN network (LAN-net) and a LAN bridge (LAN-br)—The default static management IP address (192.168.1.1) for the NFVIS host is configured on the LAN bridge. One of the ports for inbound and outbound traffic are associated with the LAN bridge. Any LAN port can be used to access the default static IP address. By default, the hostname is set to "NFVIS".
- A WAN network (WAN-net) and a WAN bridge (WAN-br)—This is created with the "eth0" port, and is configured to enable the DHCP connection.

By default, the first port on the device is associated with the WAN bridge. One of the other ports on the device are associated with the LAN bridge.