Silver Peak Systems

Installing EdgeConnect on Cisco ENCS

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Overview

This guide provides step-by-step instructions for installing EdgeConnect on a Cisco ENCS platform.

Assumptions and Prerequisites

- The EdgeConnect appliance has one LAN connection and two WAN connections.
- The LAN connection is connected to a virtual Cisco router within ENCS.

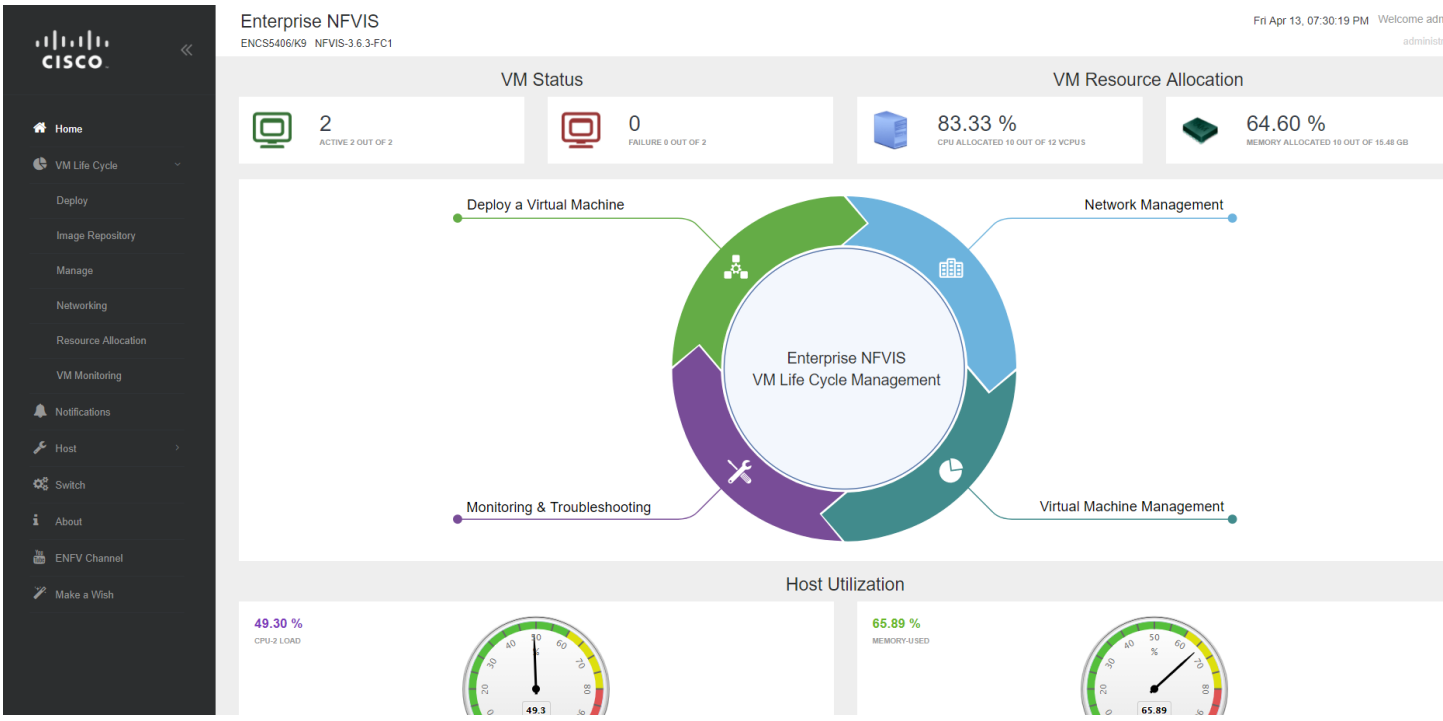
Procedure

Follow these steps to install an EdgeConnect with Cisco ENCS.

Upload the EdgeConnect KVM image to ENCS

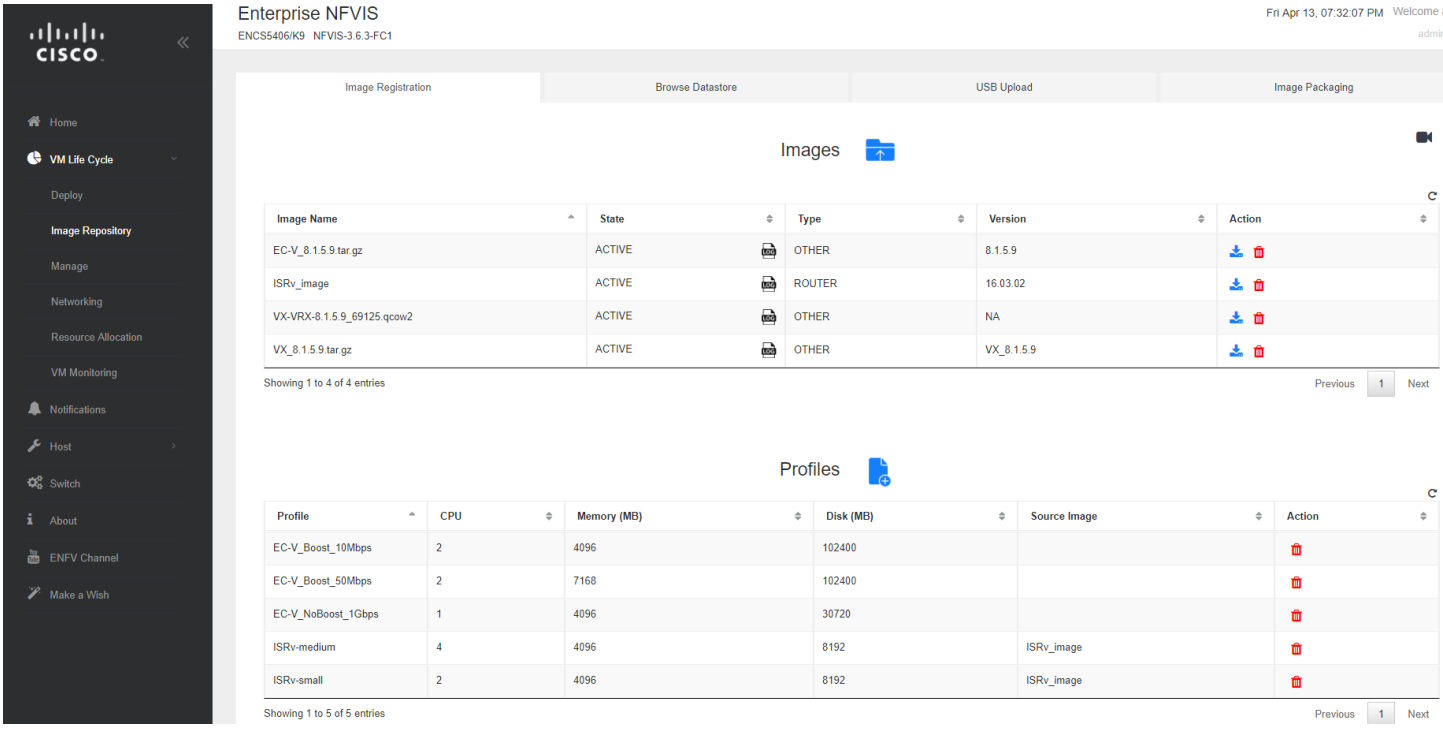
1. Log into the Cisco ENCS appliance web console with your **username** and **password**.

The Enterprise NFVIS screen opens.



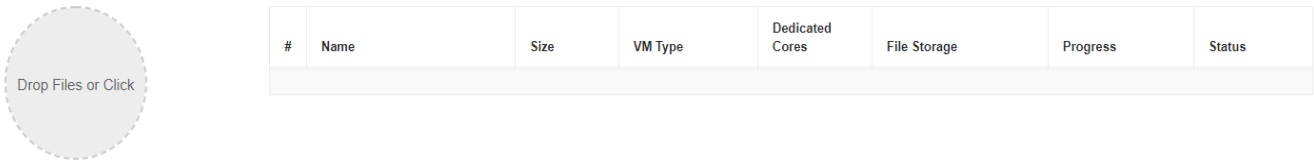
2. From the menu bar on the left pane, click **VM Life Cycle** and scroll down to select **Image Repository**.

   The Image Registration page opens.



3. Click the Images icon that appears towards the center of the screen.

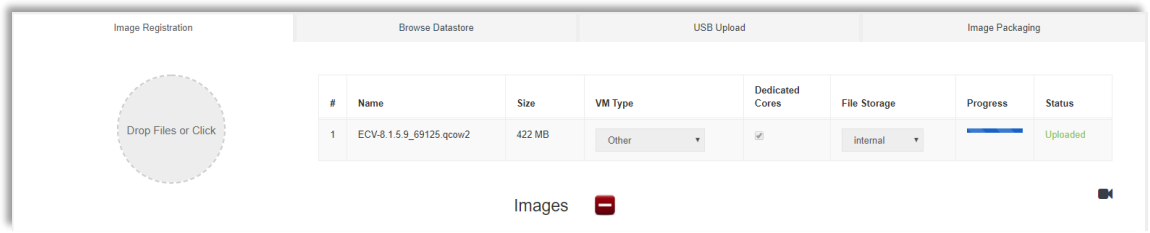
   The Drop Files or Click circular icon slides open.



4. From the Image Registration page, configure the following settings.

Field	Selection
VM Type	Other
CPU Cores	Check this box to dedicate the CPU cores.
File Storage	Internal

5. From the **Drop Files or Click** area, either drag or select the file you want to upload.

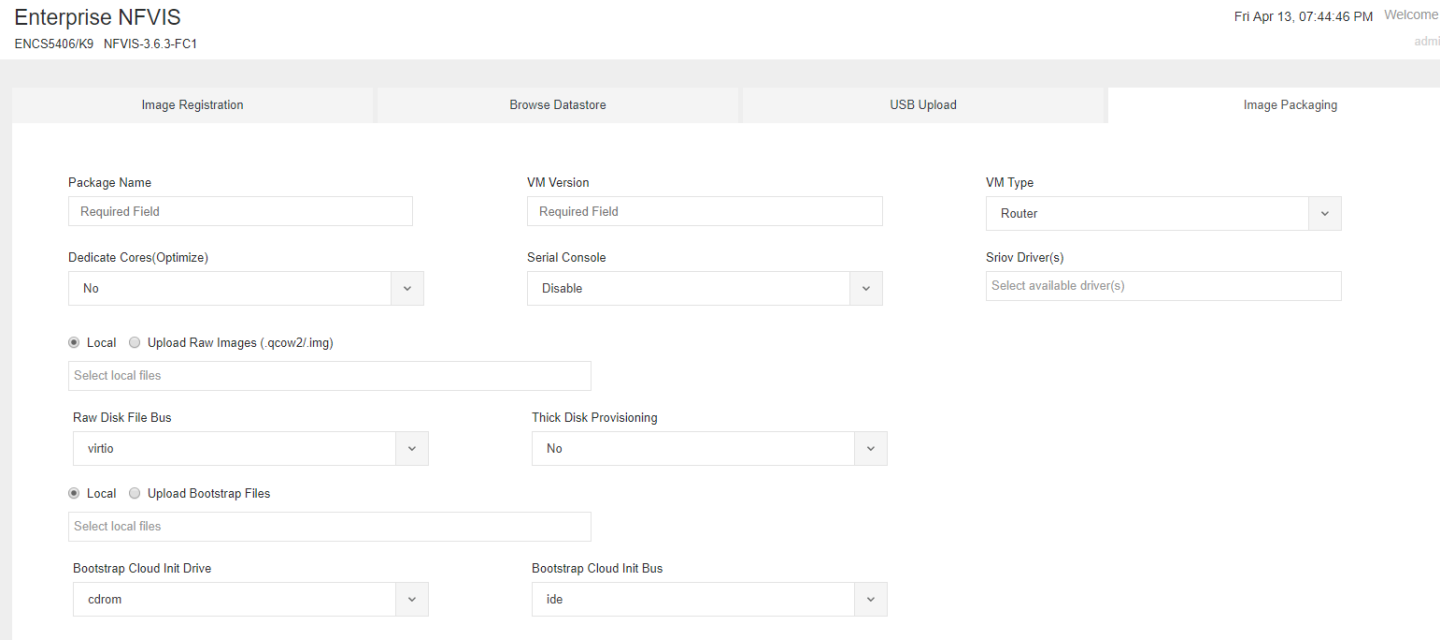


6. Once you have configured your settings, click **Submit**.

Create the EdgeConnect Image Package

1. From the Enterprise NFVIS screen, click **VM Life Cycle** and scroll down to select **Image Repository**.
2. Select the Imaging Packing tab, and click the file icon labeled **VM Packages**.

   The Imaging Packaging page opens.

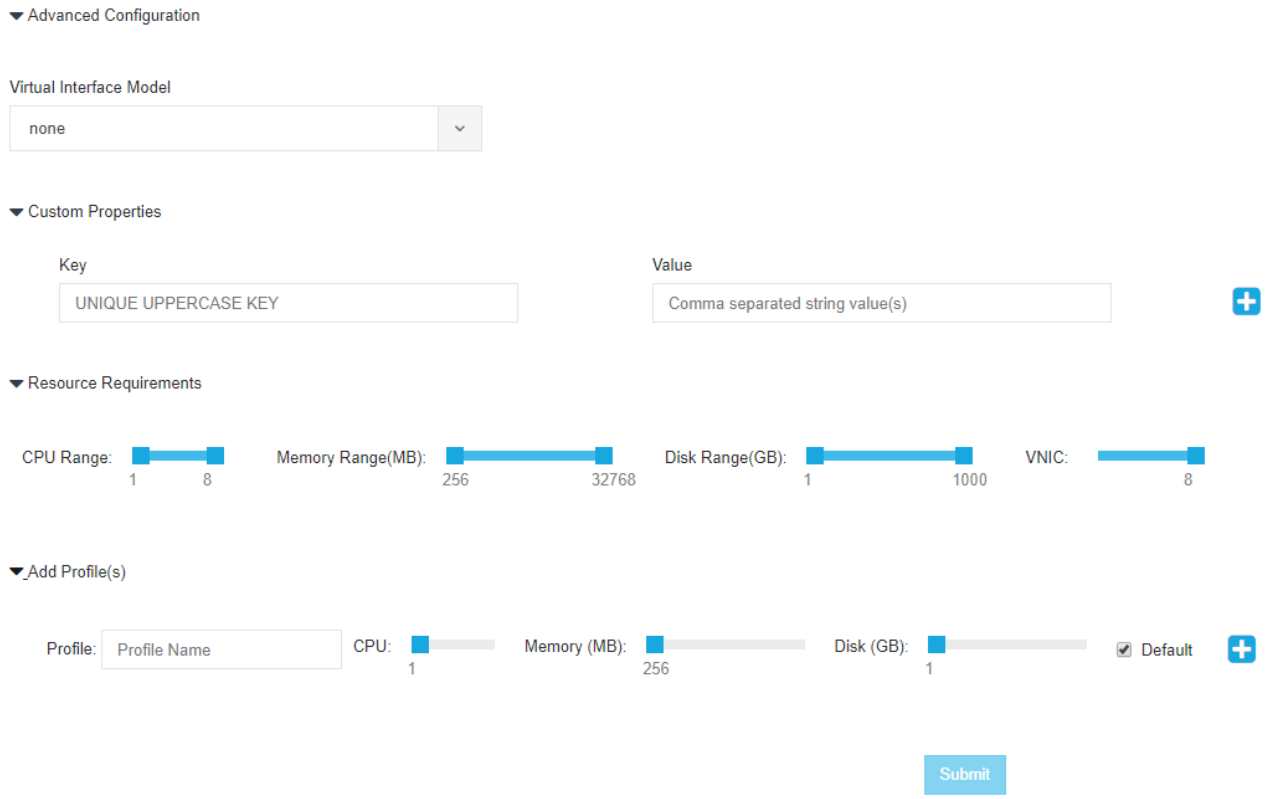


3. Configure the following settings.

Field	Selection
Package Name	There are no restrictions. You can give it any name.
VM Version	There are no restrictions. You can give it any value.
VM Type	Other.
Dedicate Core (Optimize)	Yes.
Serial Console	Enable.
Sriov Driver(s)	Enable all driver (i.e., igb, igbvf, i40evf).
Raw Image File	Select the **Local** radio button and in the text field, select the image file that was previously uploaded.
Raw Disk File Bus	Virtio.
Thick Disk Provisioning	Yes.
Upload Bootstrap Files	This is optional. If you are unsure, leave it blank.
Bootstrap Cloud Init Drive	CDROM.

4. Click **Advanced Configuration**.

   The Advanced Configuration screen opens.



5. For Virtual Interface Model, select **None**.
6. Click **Resource Requirements** and configure the following settings.

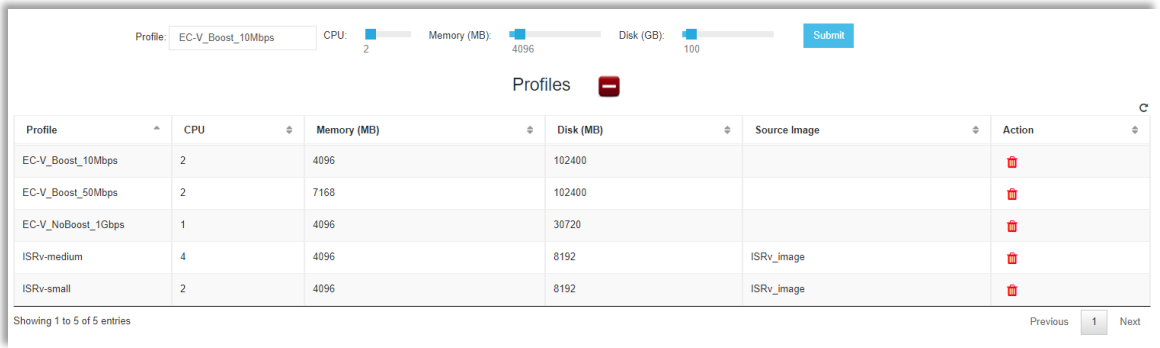
Field	Selection
CPU Range	Min 2 | Max highest value.
Memory Range (MB)	Min 4096. Max highest value.
VNIC	Highest value.

7. Click **Submit**.

Create Image Profiles

1. From the Enterprise NFVIS screen, click **VM Life Cycle** and scroll down to select **Image Repository**.
2. Select the Image Registration tab, and click the file icon labeled **Image Registration**.

   The Profiles screen opens.



3. On the Profiles screen, click the Profiles icon to add a profile and configure the following settings.

Field	Selection
Profile	There are no restrictions. This can by any value (i.e., EC-V_Boost_10Mbps).
CPU	Match the specification based on the Table 1.1
Memory (MB)	Match the specification based on the Table 1.1.
Disk (GB)	Match the specification based on the Table 1.1.

Table 1-1. Specifications

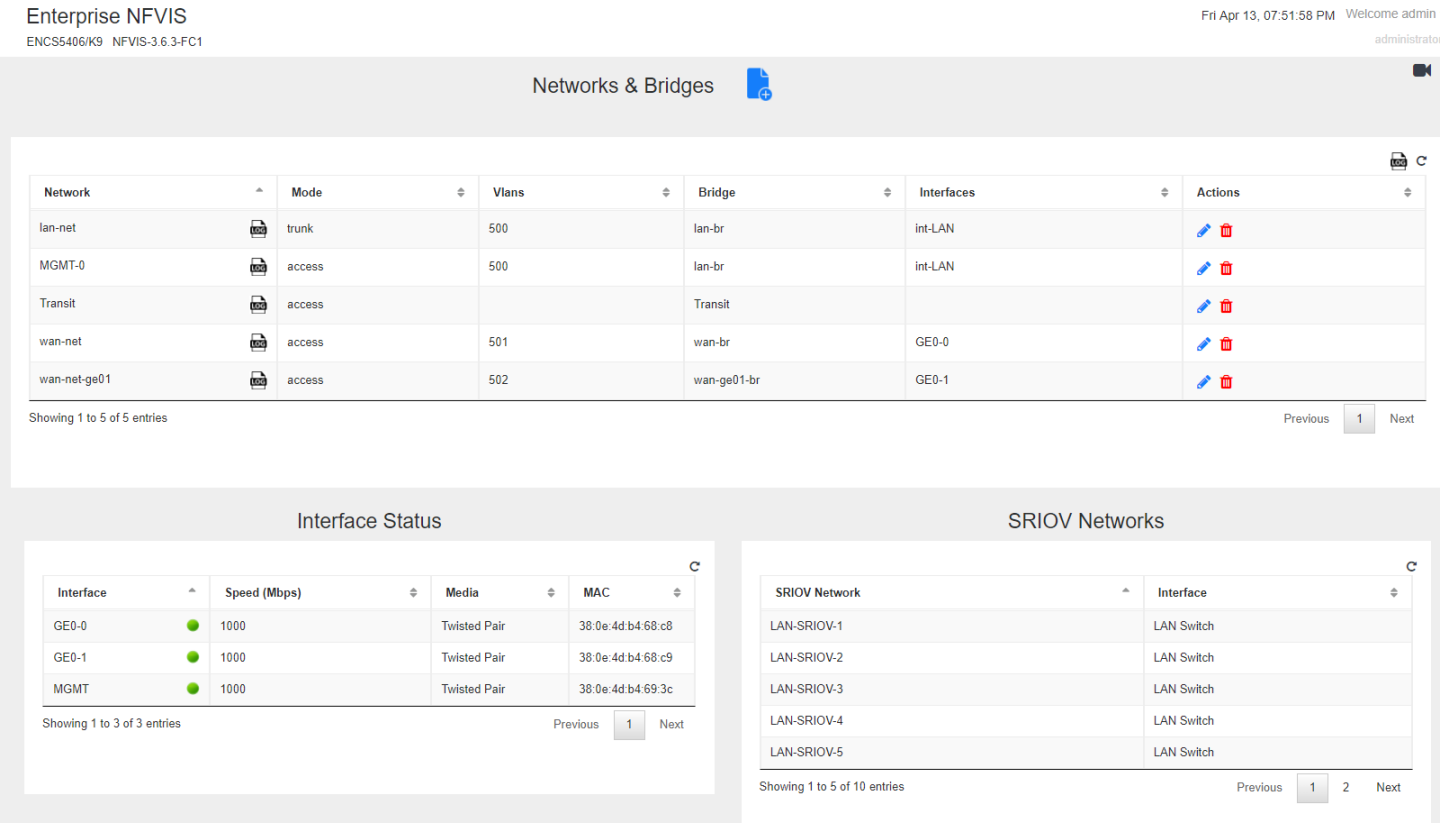
SD-WAN Bandwidth	Processor Cores (>2 GHz)	Memory	Minimum Storage	Storage IOPs	Storage Bandwidth
Up to 1 Gbps	2	4 GB	30 GB	n/a	n/a
1 to 4 Gbps	4	4 GB	30 GB	n/a	n/a
4 to 5 Gbps	8	4 GB	30 GB	n/a	n/a
Added Boost Bandwidth	**Processor Cores (>2 GHz)**	**Memory**	**Minimum Storage**	**Storage IOPs**	**Storage Bandwidth**
Up to 10 Mbps	4	4 GB	100 GB	100	25 MB/s
10 to 50 Mbps	4	7 GB	100 GB	200	50 MB/s
50 to 200 Mbps	8	14 GB	250 GB	1000	250 MB/s
200 to 1000 Mbps	24	30 GB	250 GB	5000	1250 MB/s

4. Click **Submit**.

Create Virtual Networks

1. From the Enterprise NFVIS screen, click **VM Life Cycle** and scroll down to select **Networking.**

   The Networks & Bridges screen opens.



2. Towards the middle of the screen, click the file icon labeled **Network and Bridges**.

   Additional fields appear.

3. Configure these settings to create the new virtual network.

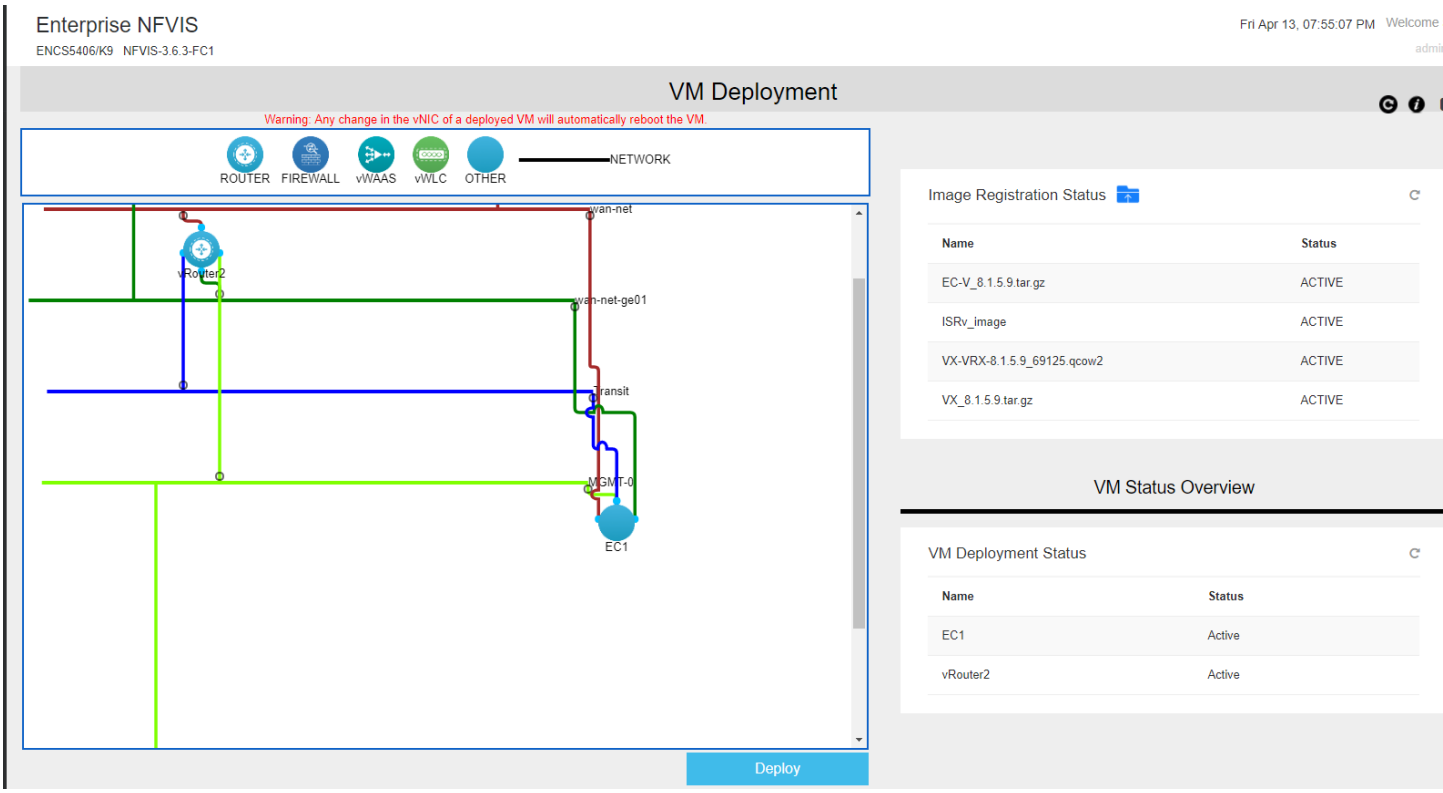
Field	Selection
Network	There are no restrictions. This can be any value.
Mode	Trunk
VLAN	Leave this blank.
Bridge	Select the **Create New** radio button and type a name for the new bridge.

4. Click **Submit**.

Deploy the EdgeConnect Virtual Machine

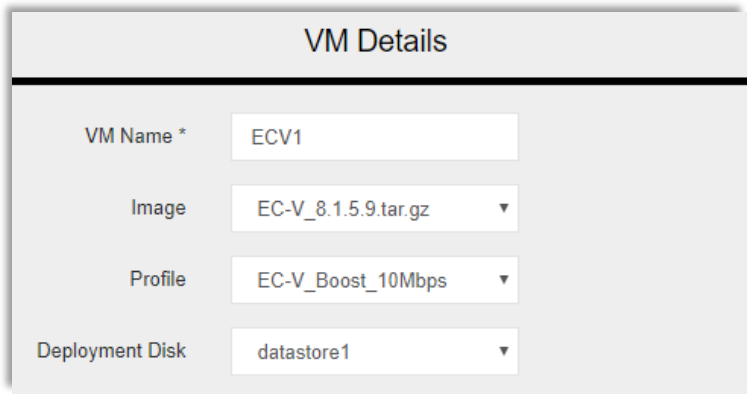
1. From the Enterprise NFVIS screen, click **VM Life Cycle** and scroll down to select **Deploy.**

   The Deploy screen opens.



2. At the top of the page, click and drag the circle icon labeled **Other** into the VM deployment section.

   The VM Details screen opens.



3. Configure these settings.

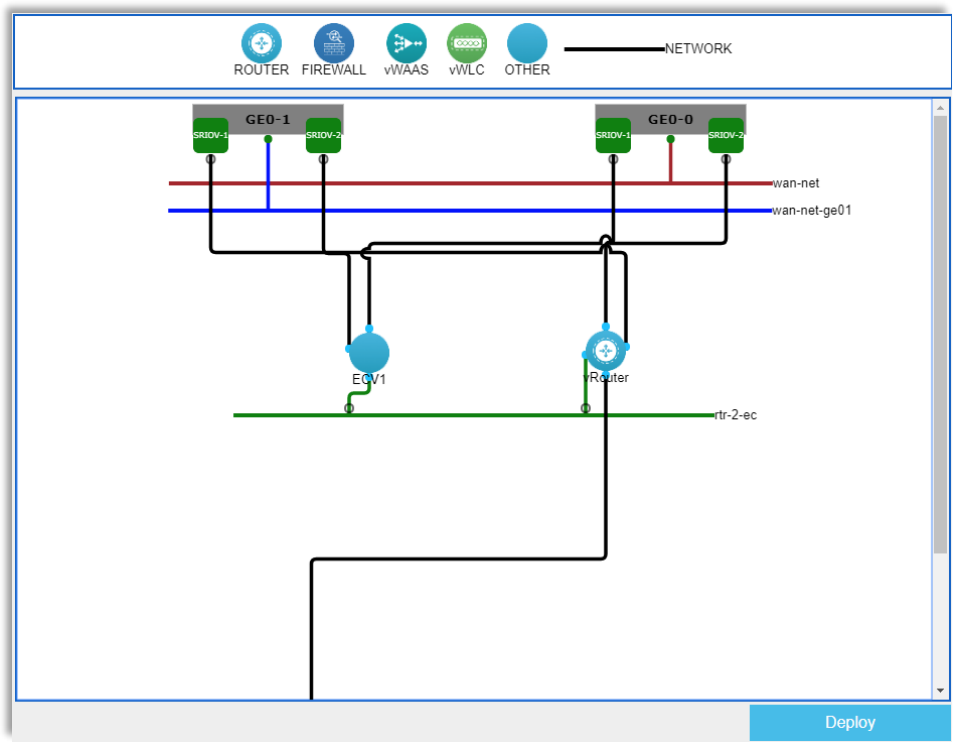
Field	Selection
VN Name	There are no restrictions. Enter a name of the VN.
Image	Select the image package that you created in the previous section (i.e., EC-V_8.1.5.9.tar.gz).
Profile	Select one of the profiles created in the previous screen (i.e., EC-V_Boost_10Mbps).
Deployment Disk	datastore 1.

Note: From the Deployment screen, you can also add vNICs by clicking the VM icon and dragging the mouse/arrow to the external interface or virtual network you want to associate it with.

Recommendations:

We recommend that you deploy EdgeConnect in Inline Router Mode (ILRM) as this will provide a separate and instinct LAN and WAN interfaces. We also recommend connecting WAN side interfaces to the SRIOV interface slots for best results.

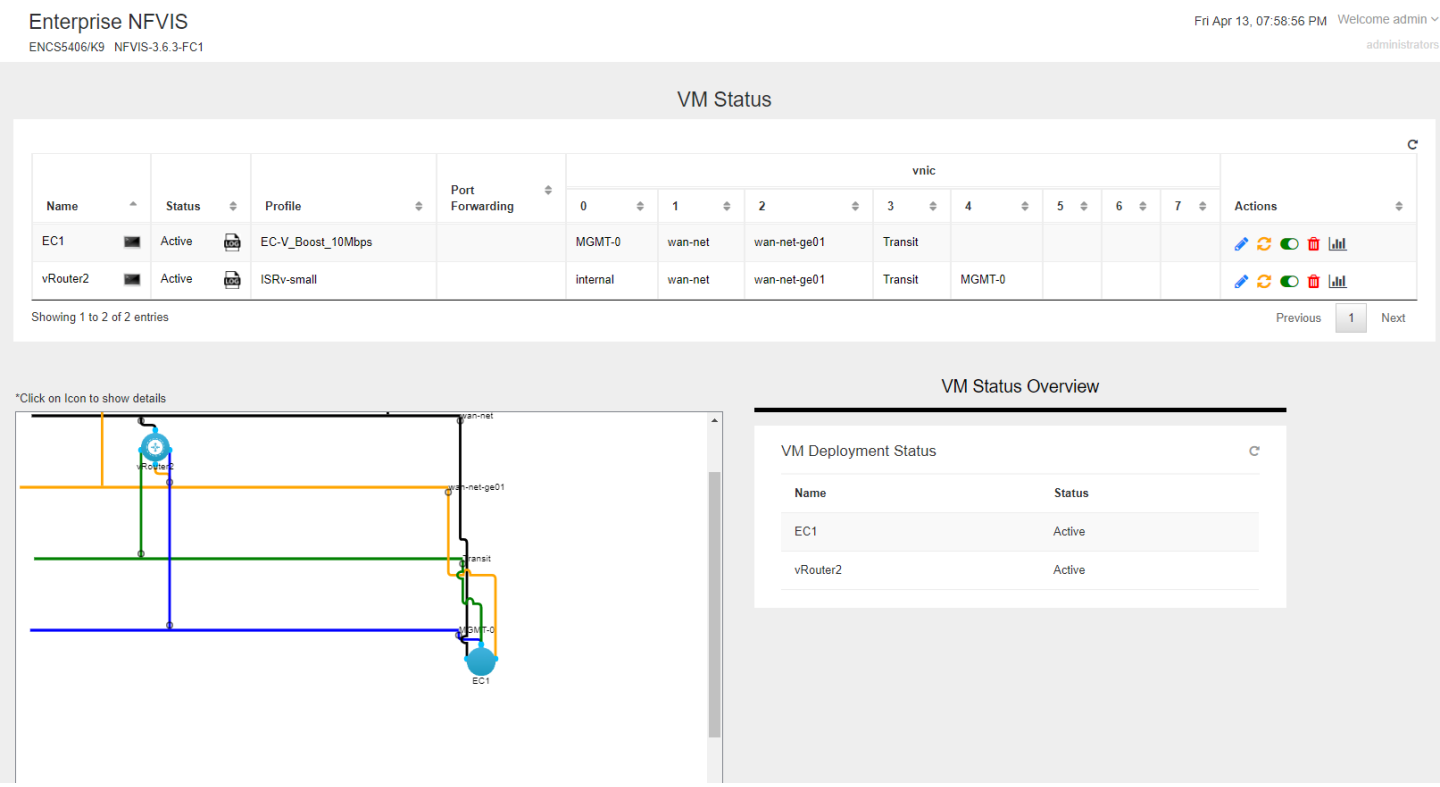
4. Click **Deploy**.



Configure the EdgeConnect Management IP

1. From the Enterprise NFVIS screen, click **VM Life Cycle** and scroll down to select **Manage.**

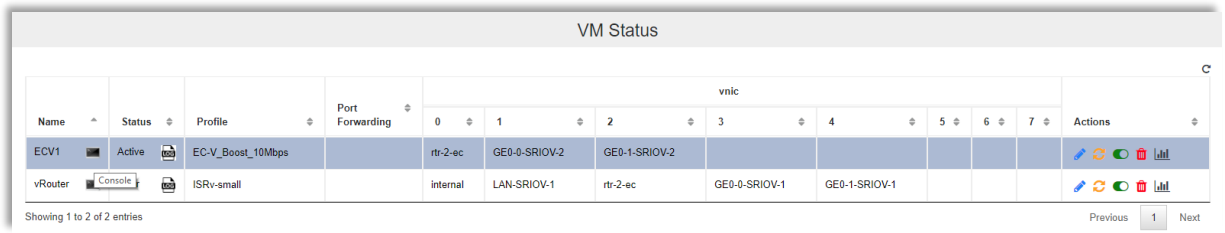
   The Manage screen opens. At the top of the page under VM Status, a view of all the virtual machines and their associated status are displayed.



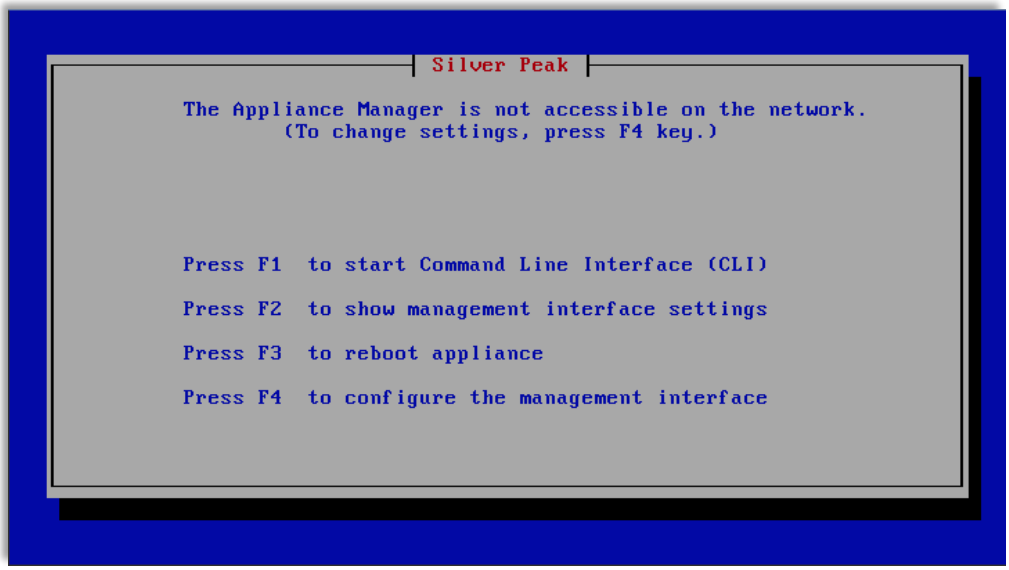
2. Under the **Name** column, click the console icon next to the EdgeConnect virtual machine that you created.

   A new tab opens providing console access to the appliance.

   Note: Ensure that your pop-up blocker is disabled or configured to allow pop-ups from the ENCS web console.

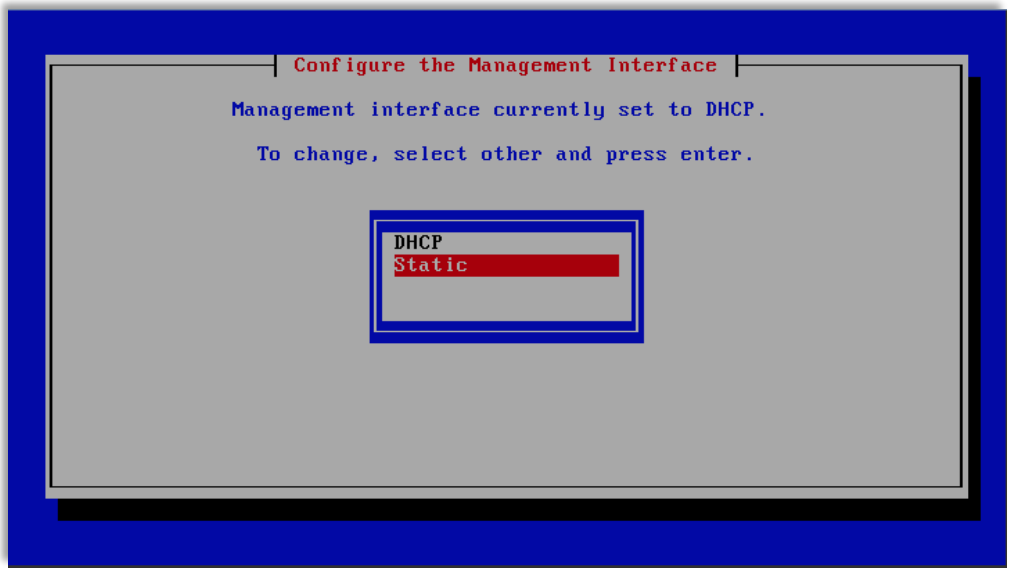


3. From the Console View/Tab, press F4 to configure the management interface.

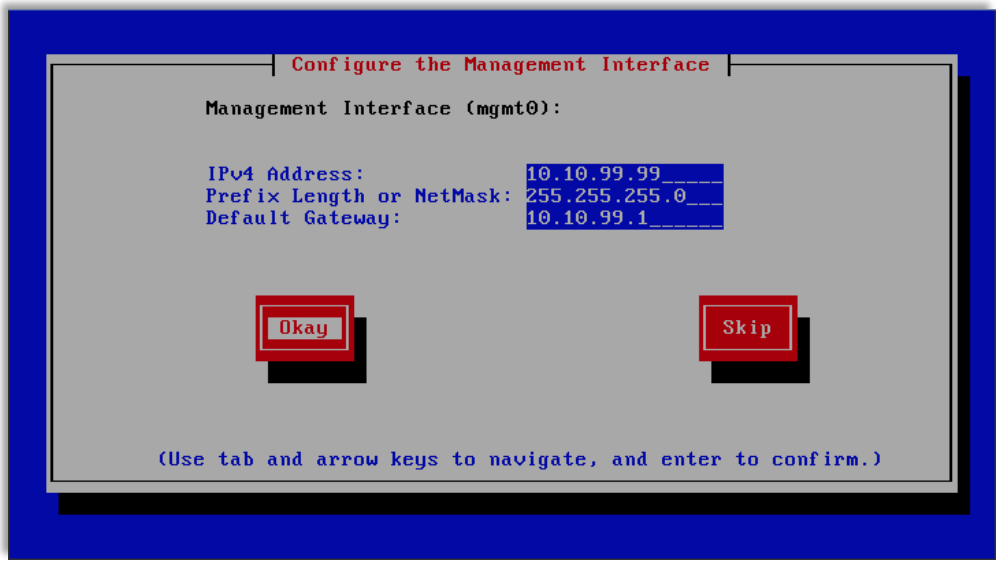


The Configure the Management Interface screen opens.

4. Select **Static**.



5. Proceed to configure the IP address, subnet mask, and default gateway, and click **OK**.



6. After you have verified that all the configuration details are correct, click **Apply**.
   The EdgeConnect appliance should now be accessible via HTTP using the IP address you provided.