



Cisco IoT FND Deployment on an Open Virtual Appliance

[Cisco IoT FND Deployment on an Open Virtual Appliance](#) 2

[Installing VMware ESXi 6.5 and above on a Server](#) 2

Revised: October 20, 2023

Cisco IoT FND Deployment on an Open Virtual Appliance

This chapter provides an overview of the steps required to install Cisco IoT Field Network Director (Cisco IoT FND) Release 4.10 or later within Open Virtual Appliance (OVA) software, VMware ESXi versions 6.5 and above.



Note For an overview of the features and functionality of the IoT FND application and details on how to configure features and manage the Cisco IoT Field Network Director after its installation, refer to [Cisco IoT Field Network Director User Guide, Release 4.9.x](#).

Installing VMware ESXi 6.5 and above on a Server

To deploy the FND 4.10.0-x OVA into ESXi server running version 6.5 and above:

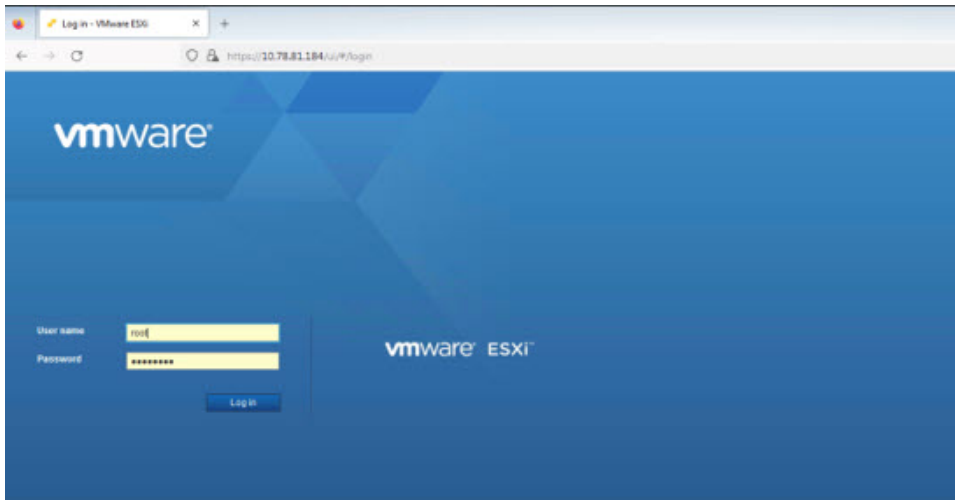
BEFORE YOU BEGIN

- Log in to the IP address of VMware ESXi server running 6.5 and above via a web browser with your user credentials (username and password).
- Ensure that you meet the VMware server machine (VM CPU and memory) requirements as listed below.
 - 24 GB memory
 - 4 vCPUs
 - Hard disk : 450 GB

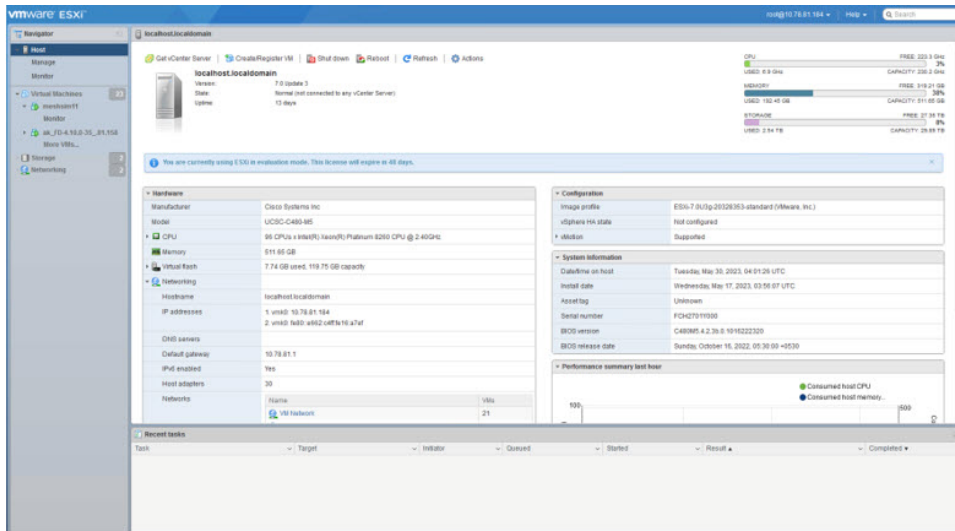
To import the IoT FND open virtual appliances (OVA) into ESXi 6.5 and above:

Procedure

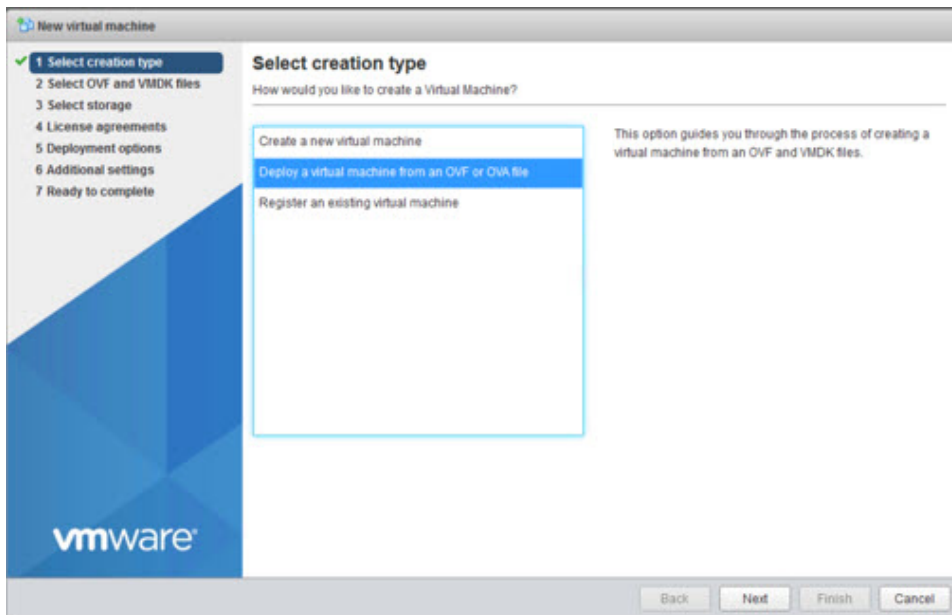
- Step 1** Enter the ESXi IP address in the URL.
- Step 2** Provide the ESXi root login credentials and click **Log In**.



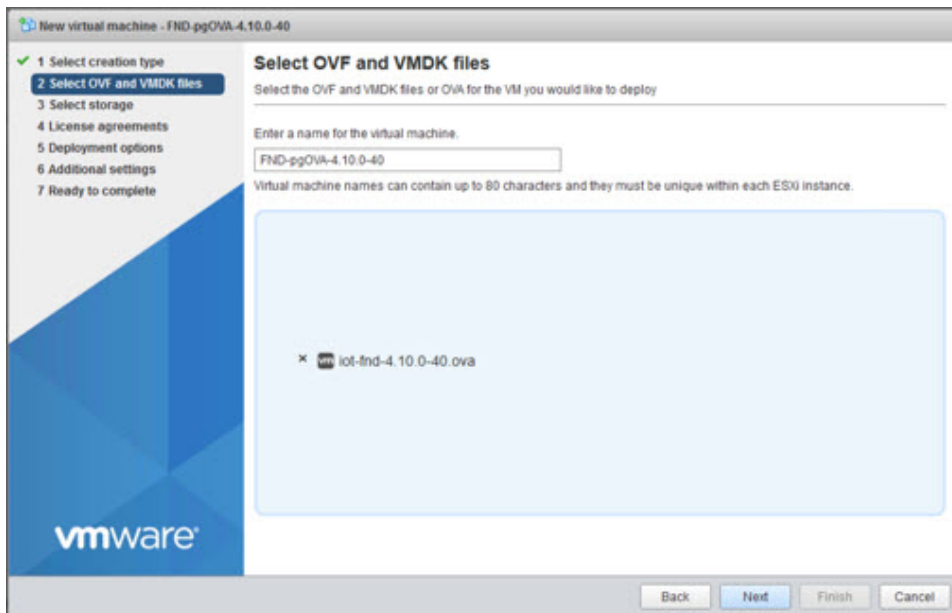
Step 3 In the Host page, select **Create/ Register VM**.



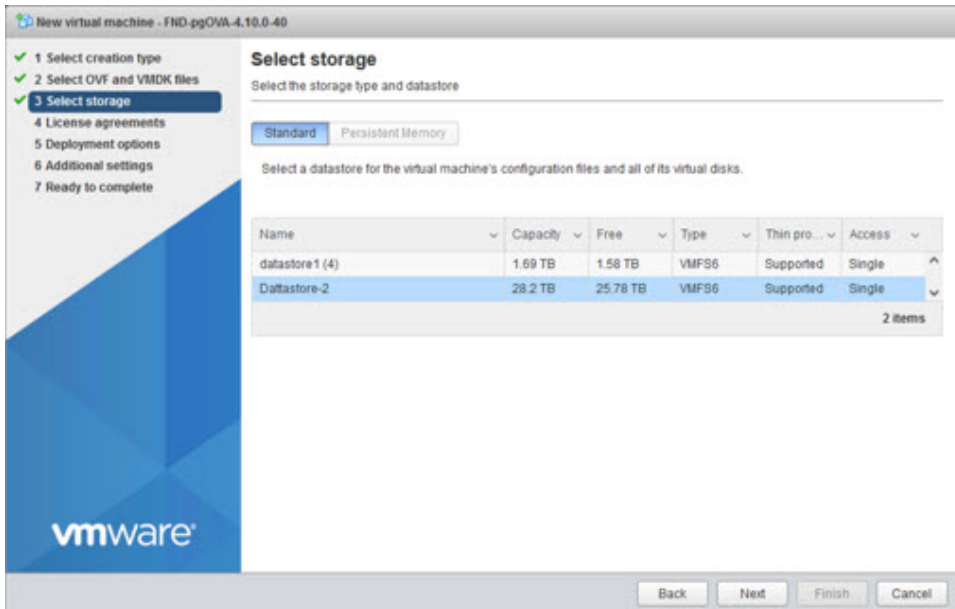
Step 4 In the New virtual machine window, select **Deploy a virtual machine from an OVF or OVA file** in Select creation type tab and click **Next**.



Step 5 In the Select OVF and VMDK files tab, provide a name for the virtual machine and browse to an OVF package from the internet or a file accessible from your computer (for example, `iot-fnd-4.10.0-40.ovf`). Click **Next**.



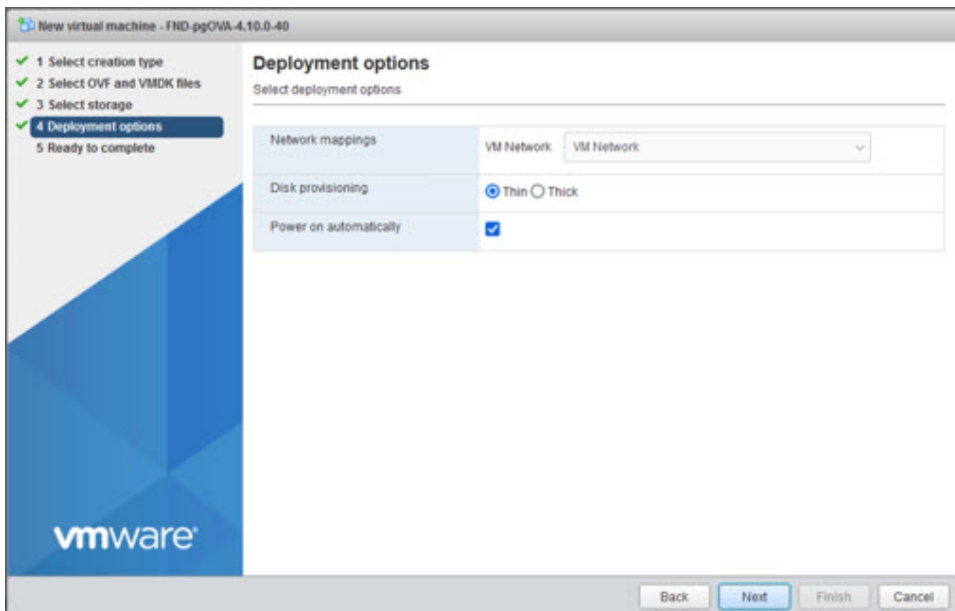
Step 6 Select a storage location for the virtual machines from the listed options (example - Datastore-2).



Step 7 After selecting the data store, select the provisioning type and enable the **Power on automatically** option. This ensures to power on the virtual machine once the deployment process is complete. Click **Next**.

Note Thin Provisioning allows the VM disk to grow as needed.

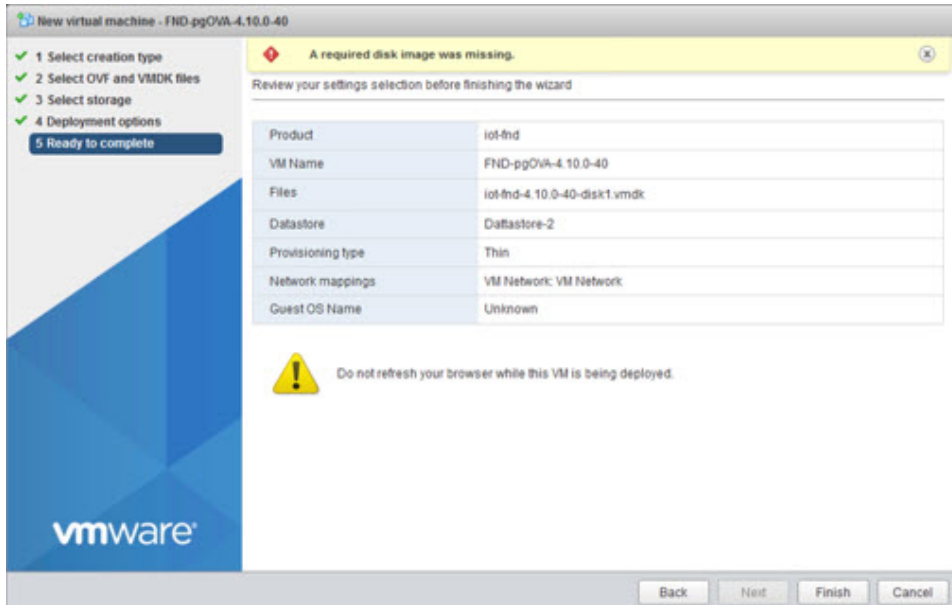
Note If the selected storage location does not have sufficient storage for the largest file installation option, a message displays noting insufficient storage. If the warning message appears, select another storage resource with greater capacity and click **Next**.



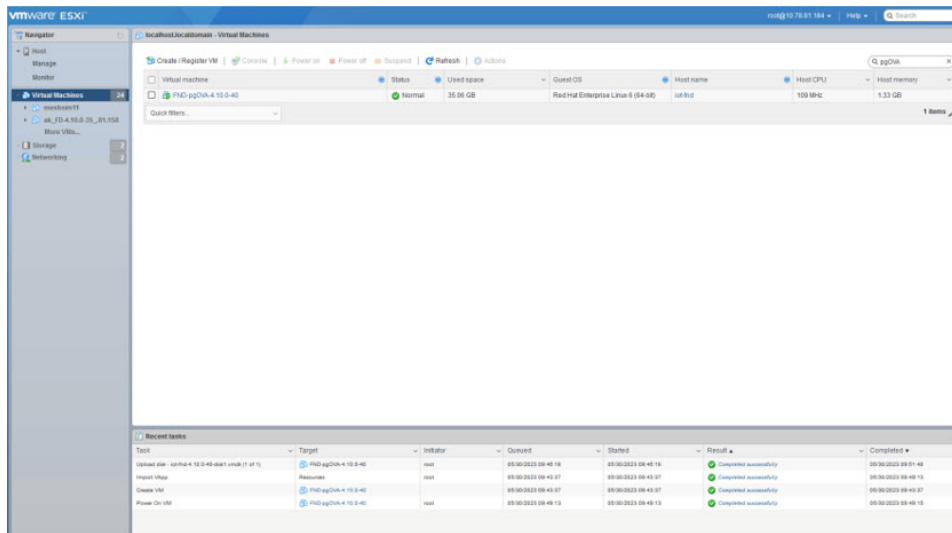
Step 8 Do a final review of the **Ready to Complete** window. If you do not want to change any settings, click **Finish**.

Note If you see the following warning message while deployment, then cancel the upload, disconnect the Esxi from vCenter Server (**Actions > Disconnect from vCenter Server**) and then re-upload OVA. The upload will be successful.

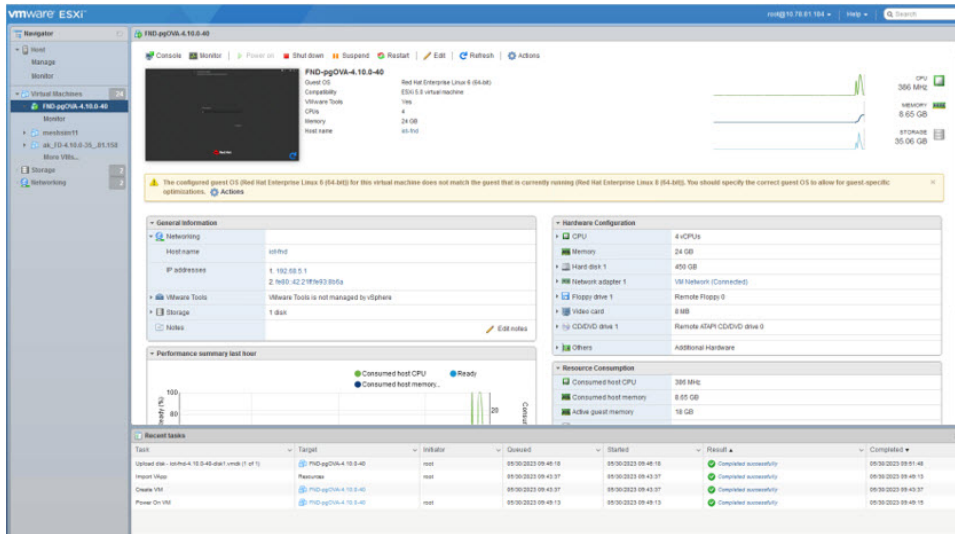
"Failed: Access to resource settings on the host is restricted to the server that is managing it 'vCenter Server IP'"



The virtual machine deployment is initiated. After completion of the install, the "Completed successfully" message appears in the Recent tasks pane at the bottom of the install window.



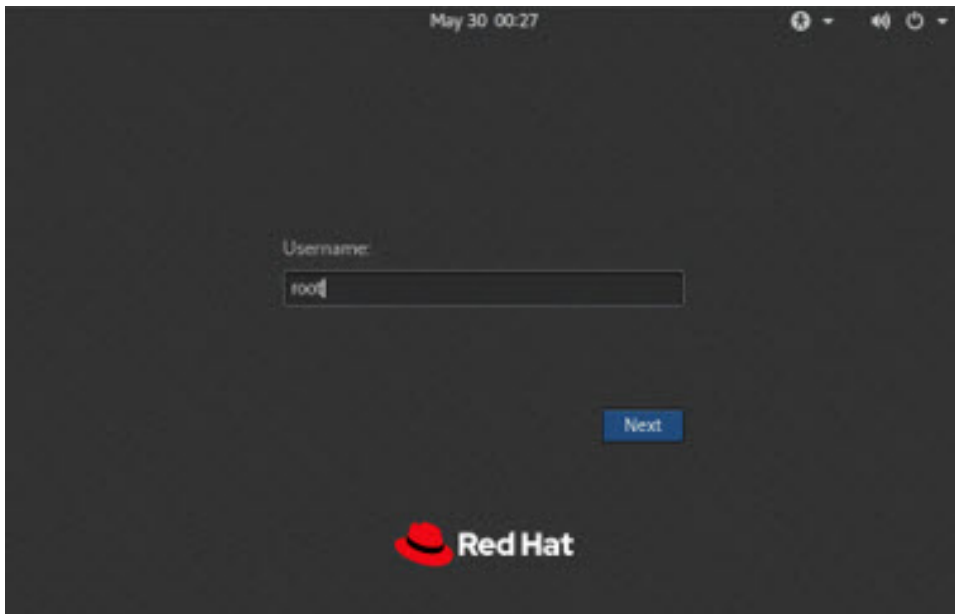
Step 9 Click Virtual Machines in the left pane and select the newly deployed VM. The deployed VM gets listed in the left pane. Select the IoT FND machine name.



Step 10

Click **Console** in the page that opens. The console opens the RHEL server where you will be prompted for your username and password.

- User Name: root
- Default Password: cisco123



Once you enter the default password, you are prompted to reset your password.



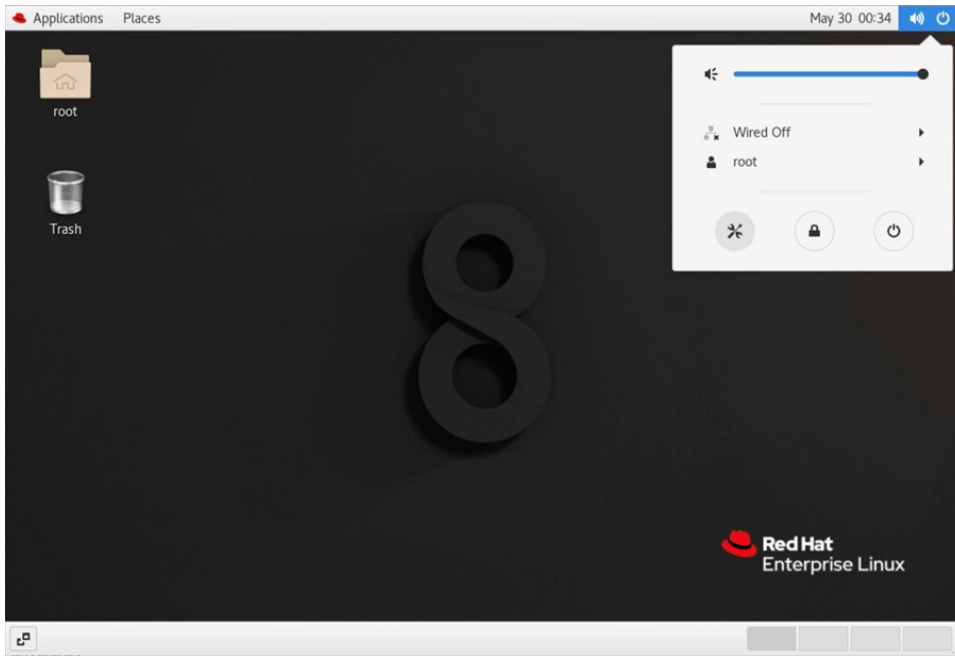
Step 11 Reset the default root password. After you complete the password reset, IoT FND 4.10.0 is fully deployed.

Step 12 Enter the new password and click **Sign in**.

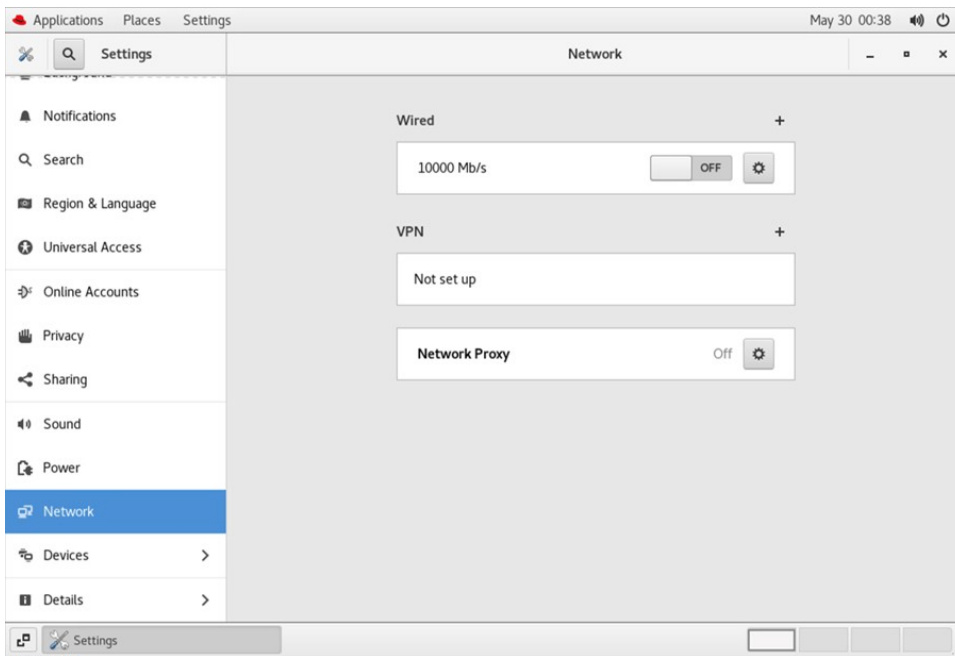
Note Ignore the 'System Not Registered' pop-up as it is optional. You can register the system later when software update is required from Red Hat.



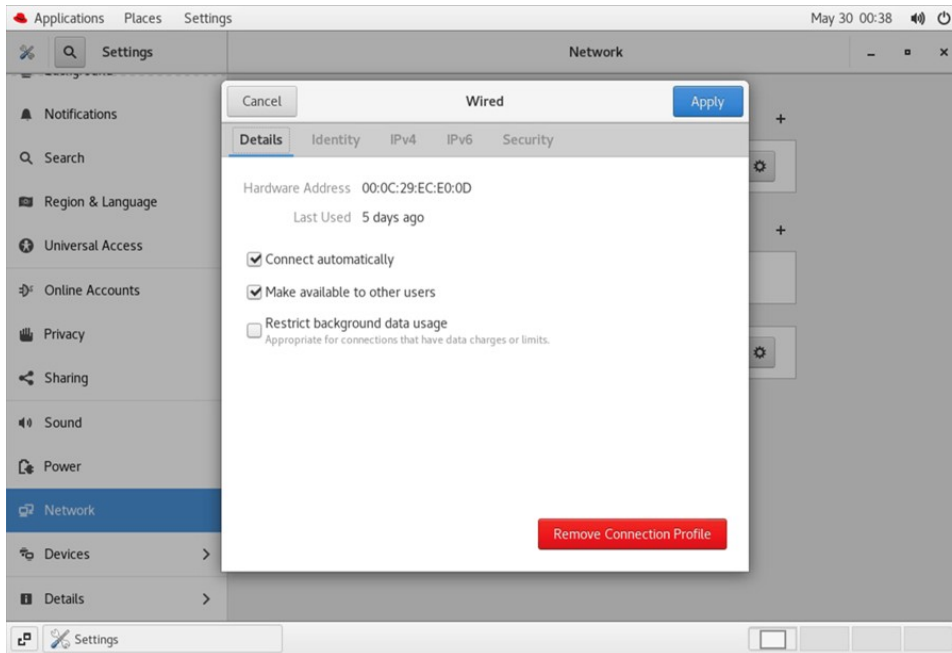
Step 13 Click the panel on the top right corner near the power button to view the menu options and click the Settings icon in the menu.



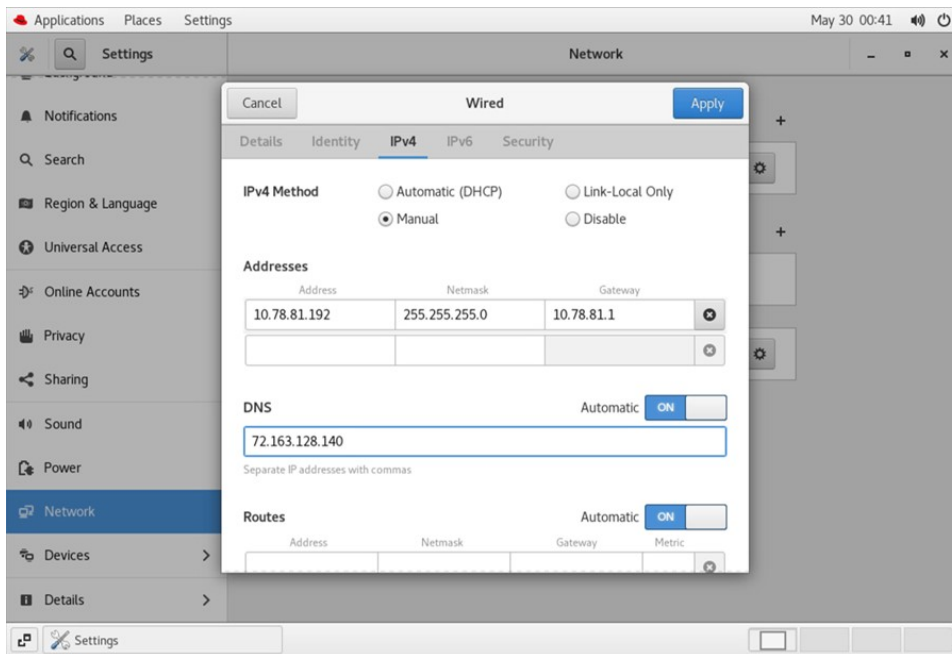
Step 14 In the Settings window, select **Network** in left pane and click the cog icon under **Wired**.



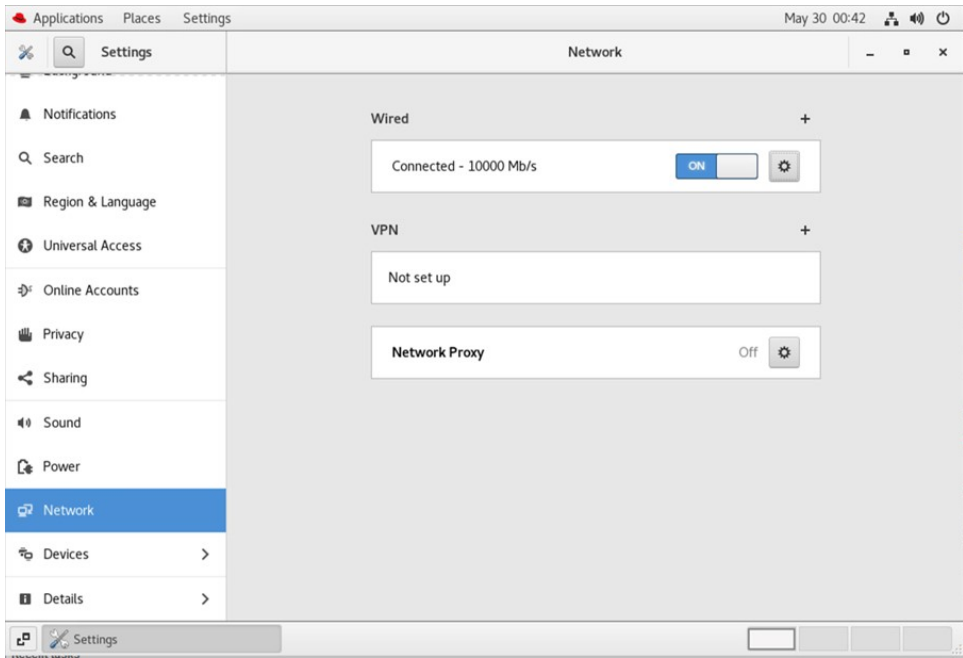
Step 15 The following settings are enabled by default under Details tab.



Step 16 Under IPv4 tab, select the method as Manual and provide the IPv4 address as below and click **Apply**.



Step 17 Toggle the Wired Network between OFF and ON for the network to restart and for the new IP address to take effect.





Americas Headquarters
Cisco Systems, Inc.
San Jose, CA 95134-1706
USA

Asia Pacific Headquarters
CiscoSystems(USA)Pte.Ltd.
Singapore

Europe Headquarters
CiscoSystemsInternationalBV
Amsterdam,TheNetherlands

Cisco has more than 200 offices worldwide. Addresses, phone numbers, and fax numbers are listed on the Cisco Website at www.cisco.com/go/offices.