NDR Installation Dell Hardware

Install and Connect System

Unbox Sensor hardware.

Install Rack mount rails according to https://www.dell.com/poweredgemanuals

For initial configuration connect the following.

- Power Cables to power supplies
- VGA monitor
- USB Keyboard
- All Network cables
  - Management Network connected to port labeled 1.
  - Syslog Network connected to port labeled 2.
  - iDRAC Network connected to port labeled iDRAC.
  - Any network capture cables connected to SPAN/mirror ports.

Configure iDRAC Settings

iDRAC provides remote keyboard and video functionality, as well as remote virtual media support. This system will be used to facilitate installation of the NDR software via bootable ISO.
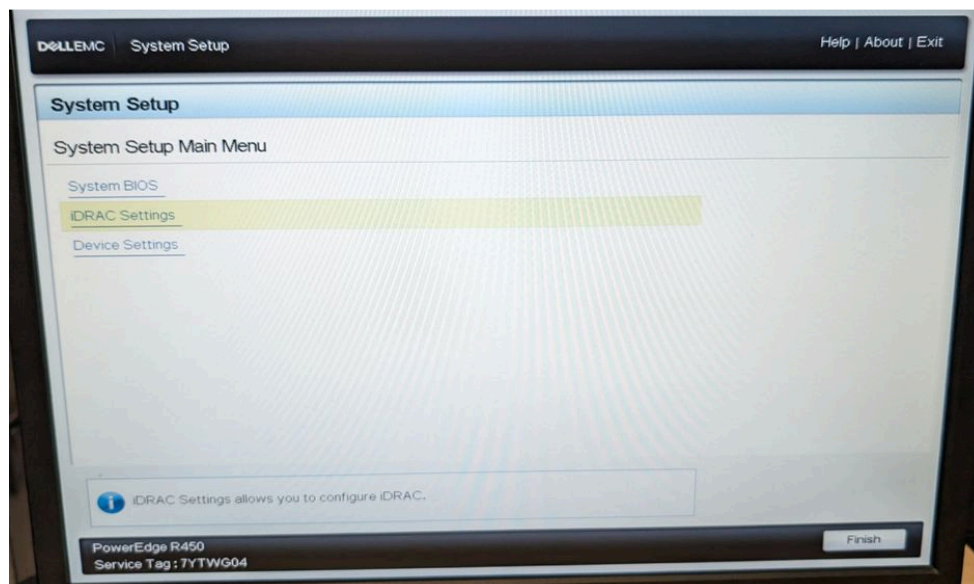
Once the system is racked and all connections listed above are made then power on the system.

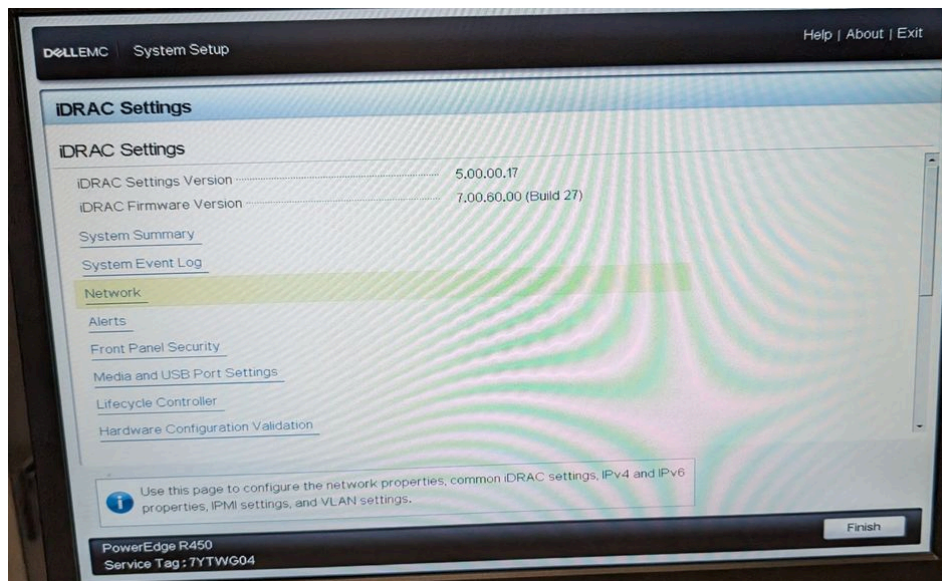When the following screen appears press F2 on the keyboard.

Enter iDRAC Setting menu

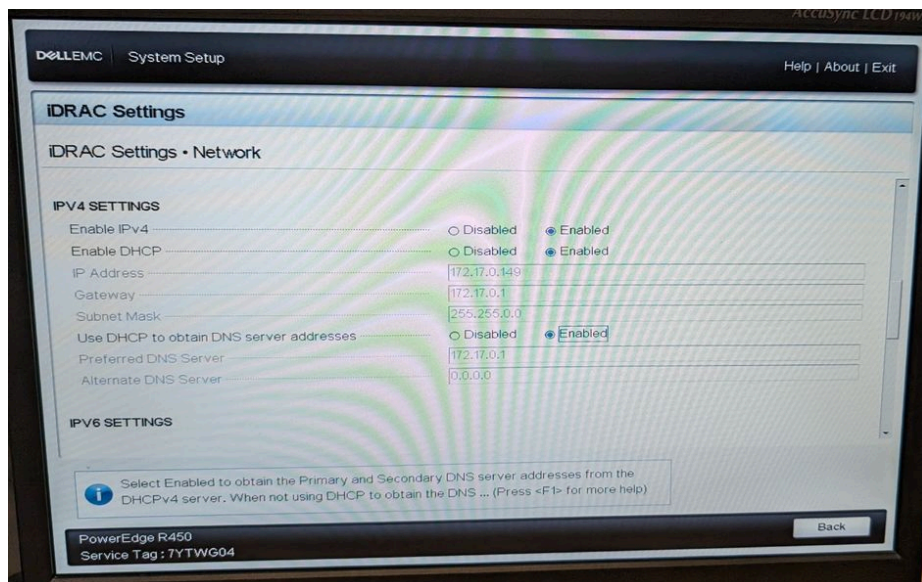In the System Setup screen arrow down to iDRAC Settings and press Enter

Next Arrow down to Network and press Enter.
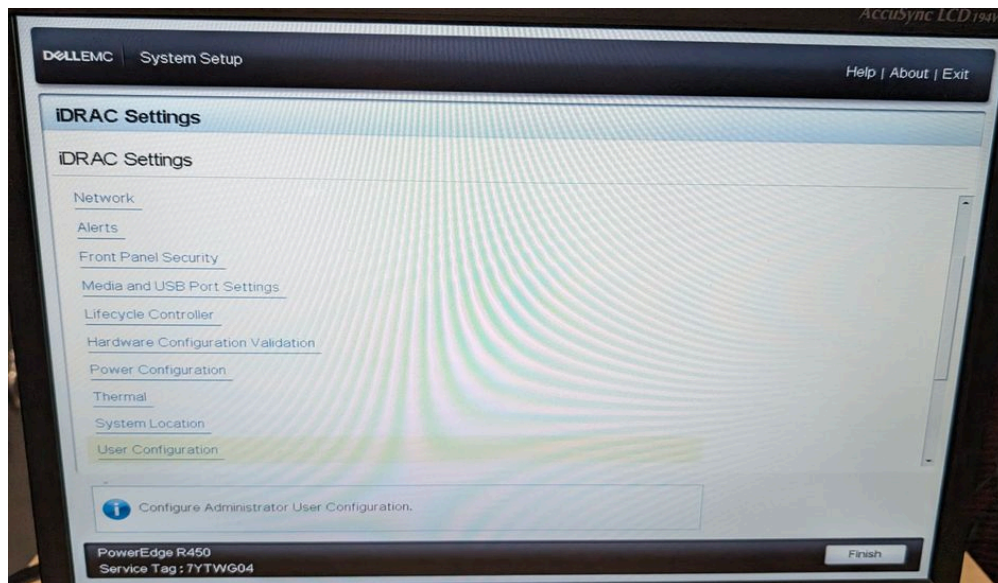
Configure iDRAC Network Settings

Next arrow down the the IPV4 Settings area and enter the IP address detail to configure the address with which you will connect to the iDRAC system.

After configuring the IP address information press tab to highlight the Back button at the bottom right.
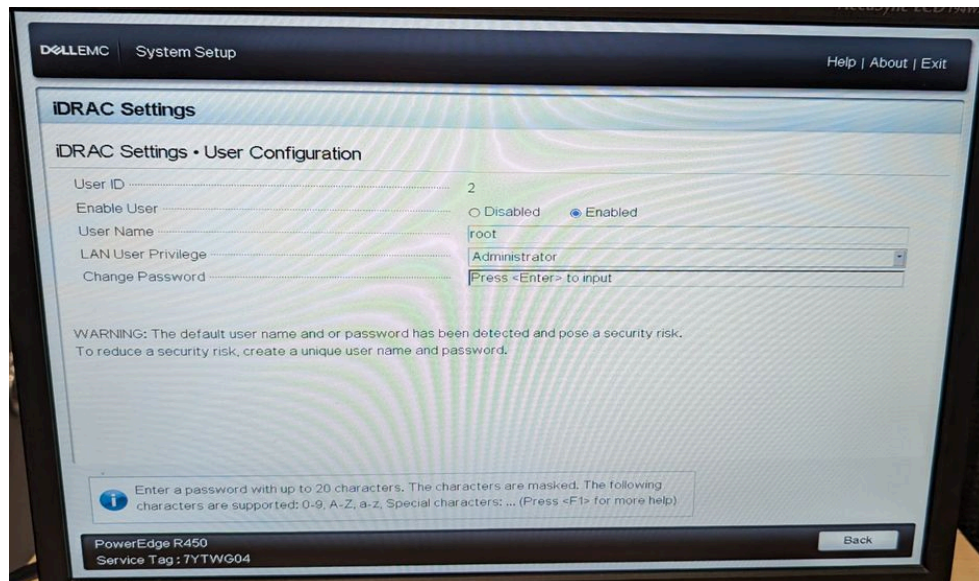
Configure iDRAC Username and Password

Next arrow down to the entry labeled User Configuration and press enter.
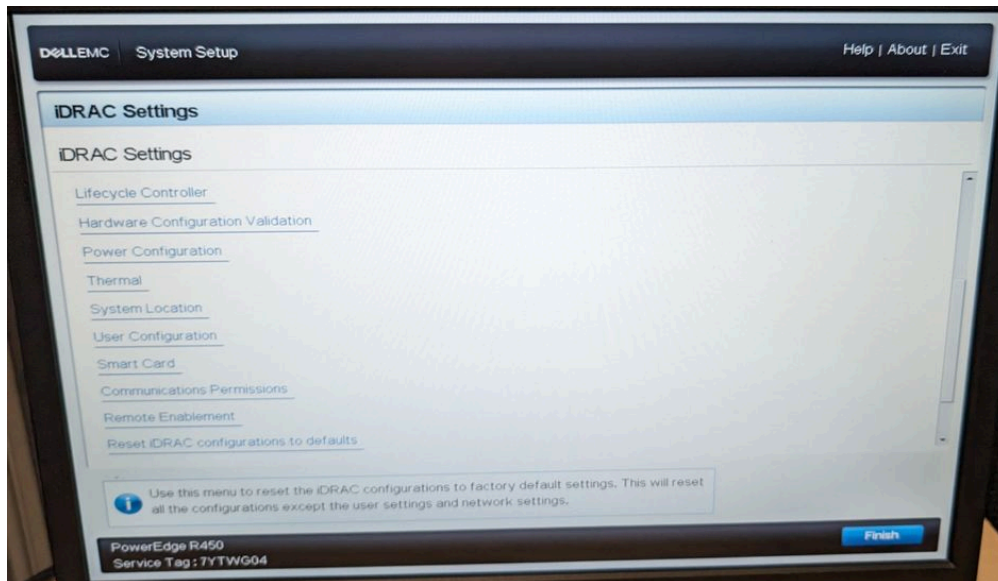
The default username is root, you can change this if desired by entering a new username.

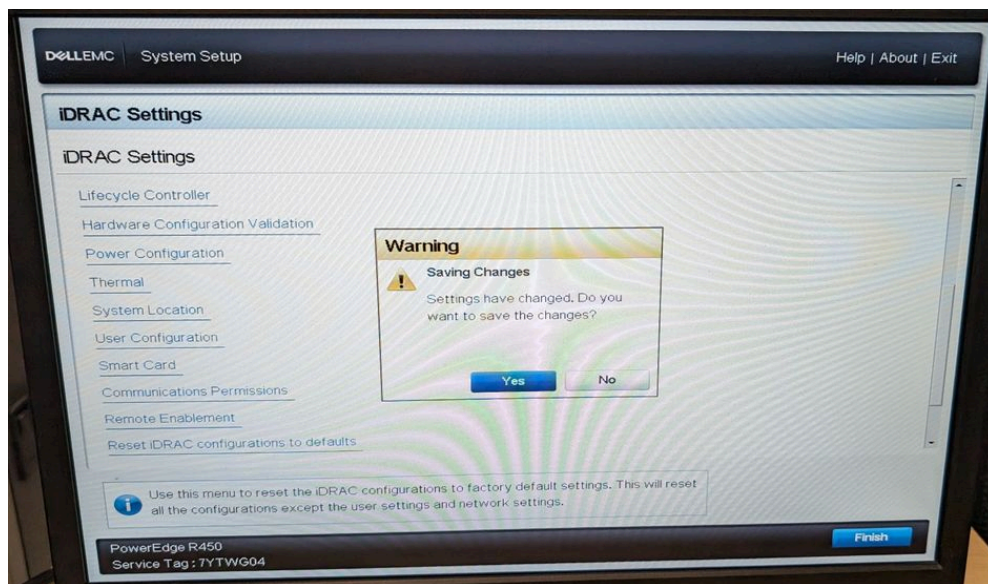To change password arrow down to the change password box and press enter.

Enter new password, confirm the password as requested. Press tab to highlight the back button and press enter
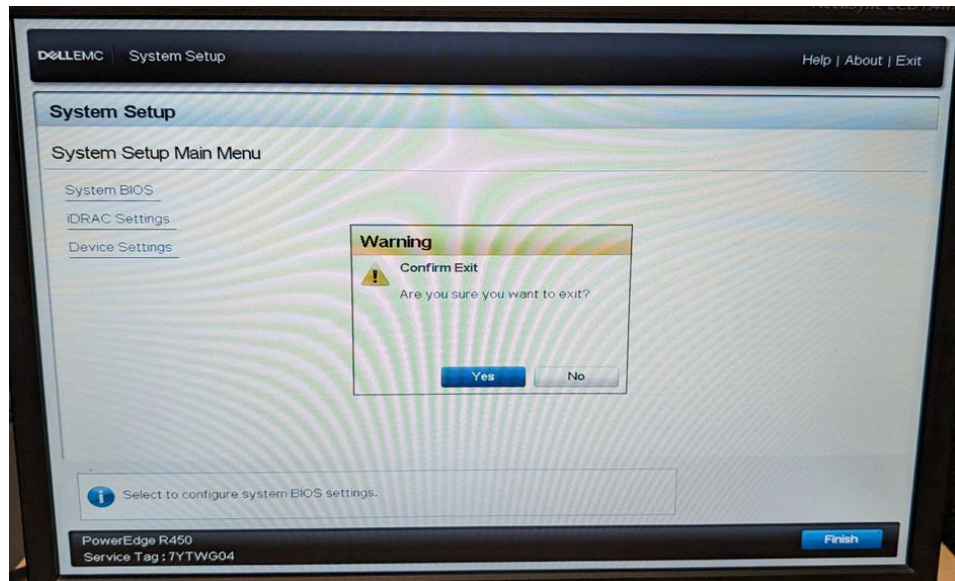
Next press tab to highlight the Finish button and press enter.

Hit enter on the Yes button to save changes and exit.
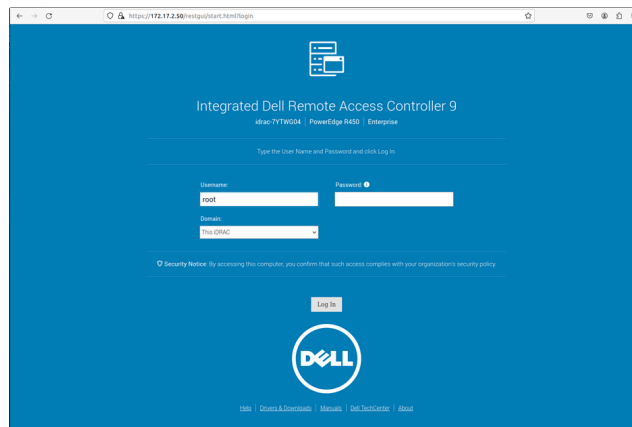

On the next screen tab to the Finish Button to exit.

Verify Connectivity

At this point the iDRAC system should be accessible via a web browser. Connect to http://<configured IP address>. If the iDRAC page does not connect recheck the iDRAC network connectoin and configuration and try again.

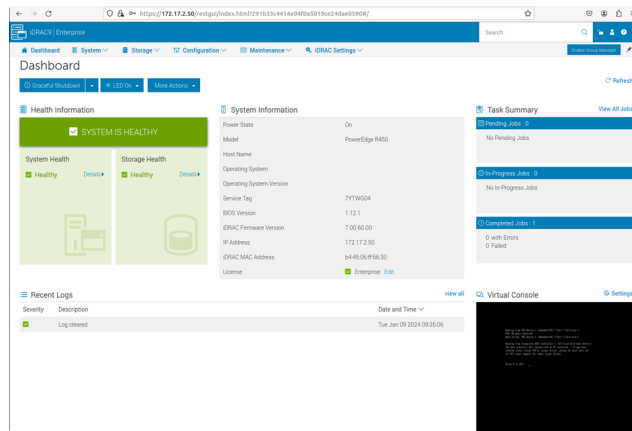All subsequent configuation will be done remotely. The keyboard and VGA monitor can be disconnected at this point.

Connect to iDRAC

Using a web browser connect to http://<configure IP address> to connect to the iDRAC interface.

Enter the username and password configured in the previous section.

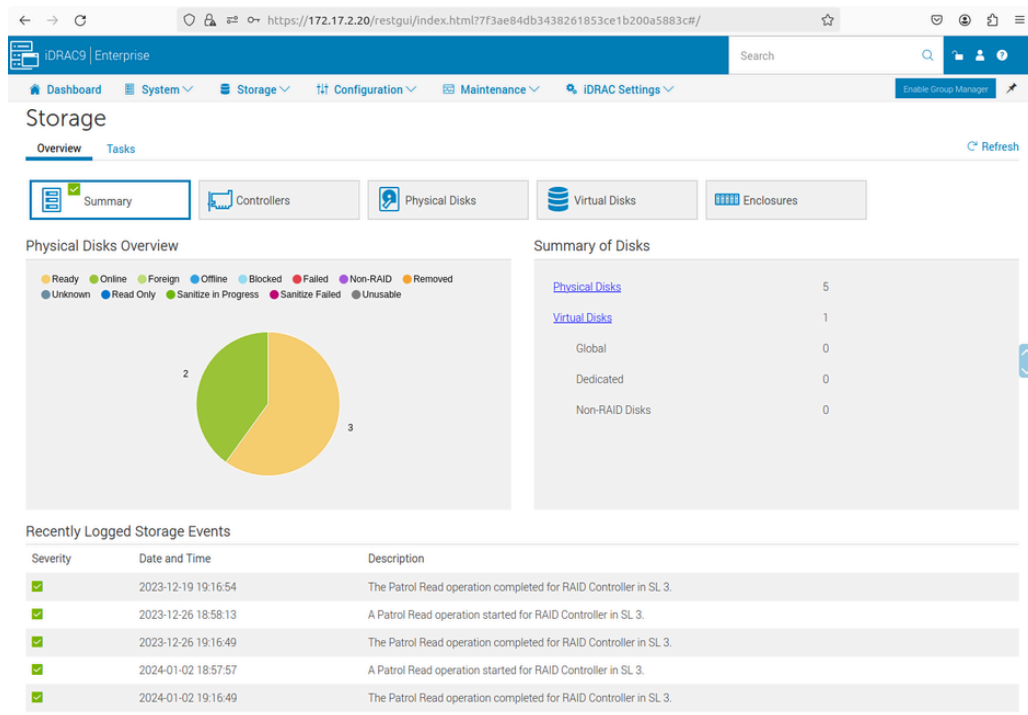After successful login the iDRAC dashboard appears

Create RAID data partion (R660 2 socket configuration only)

This step is only needed on the Dell R660 2 socket configuration which includes 3 Disk Drives populated in the front disk enclosure.

The listed configuration includes configuring Raid 5 for the disks, if that was not configured or the system was not shipped with the disks pre-configure in Raid 5, the following describes how to configure RAID for the data drive.
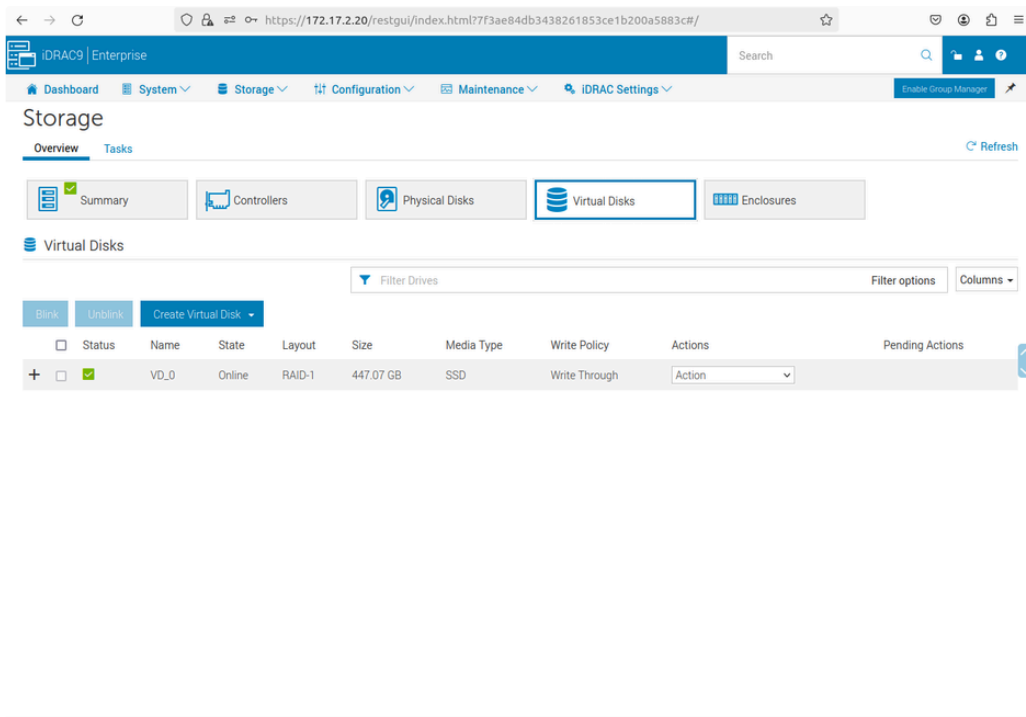
Storage Interface

With The iDRAC dashboard open click on the Storage.

Under Summary of Disks, if there are 2 Virtual Disks listed, you can skip the remining steps in this section and continue on to installation.
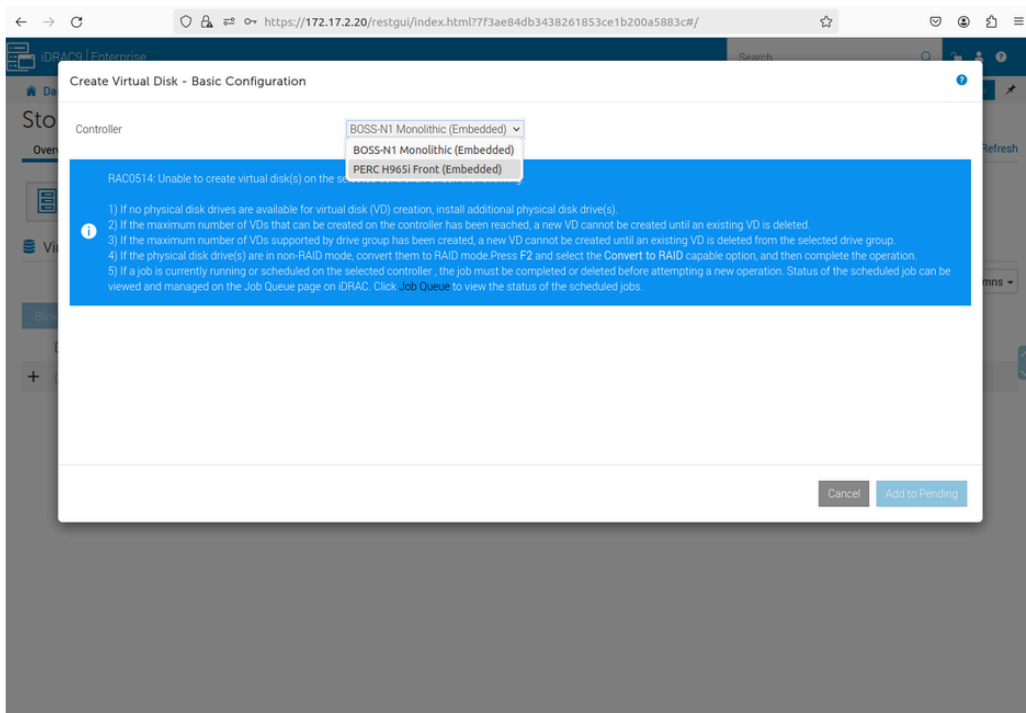
Create Virtual Disk

Click on the Virtual Disks Button

The current Virtual Disk is for the Operating System disk, we need to create the RAID 5 array for the data partition.

Click in Create Virtual Disk the click on Basic Configuration.

On the drop down list click on the PERC controller.

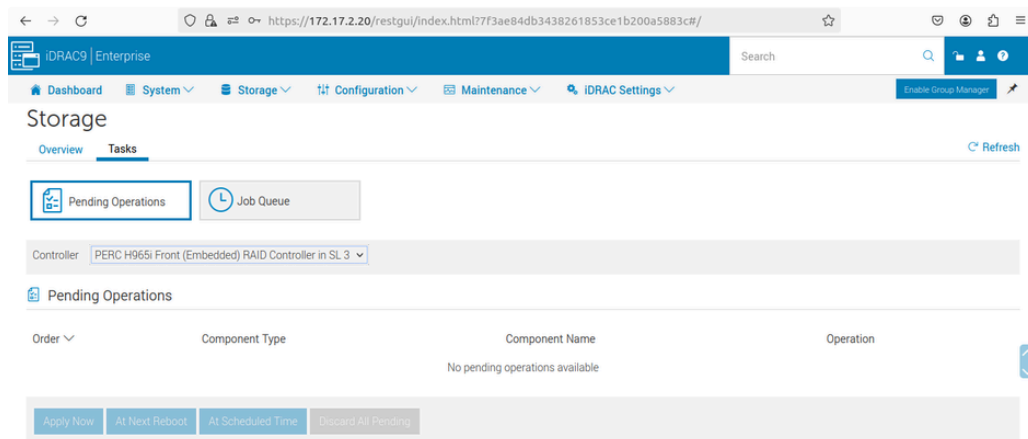On the Layout drop down select RAID 5

Click Add to Pending

Click on Apply Now.

The Volume creation has been added to the job queue, we will await completion by observing the Job Queue, click on Job Queue.
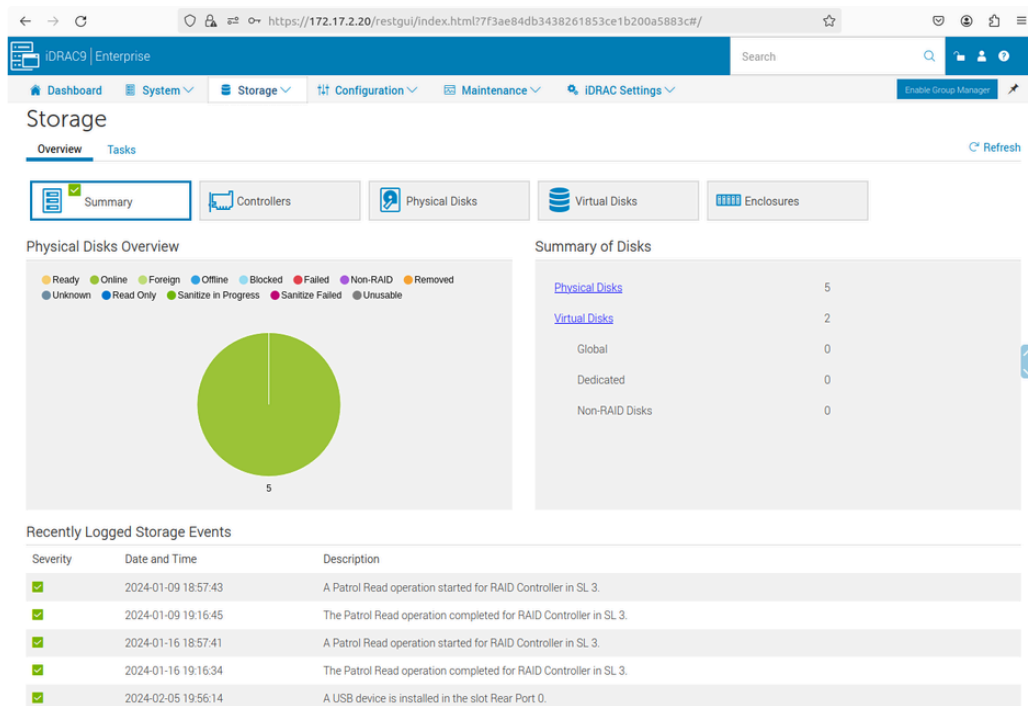
Monitor Job Queue

In the Job Queue Page click on Pending Operations, on the drop down list for Controller select the PERC controller.

Any jobs in progress will be listed here, peridically click in the Refresh and wait until the pending operations list is empty.

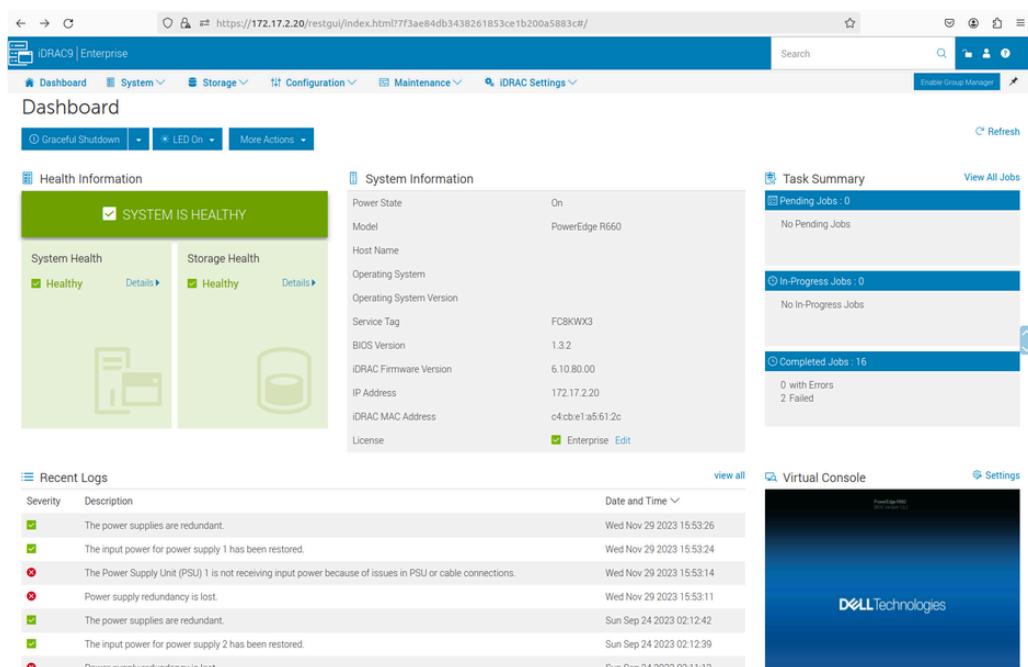## Verify Virtual Disk

Next click on Storage

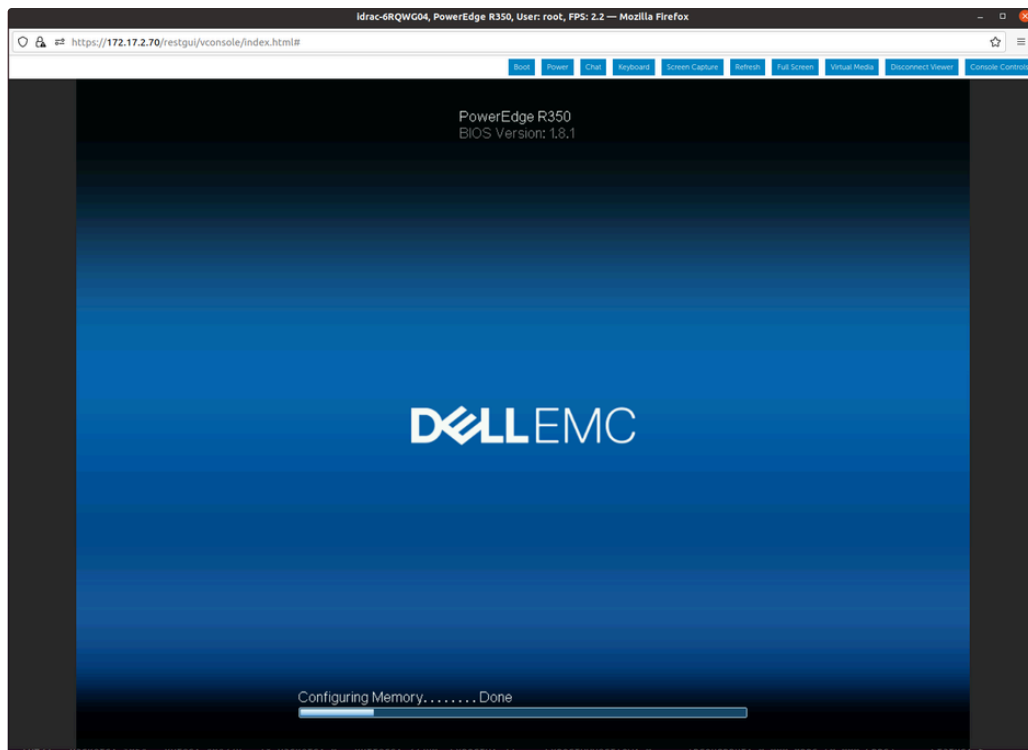Verify that under Summary of Disks that the number of Virtual Disks is 2.

Connect Installation ISO

Open Virtual Console

If not already on the iDRAC dashboard, click on the Dashboard link at the top left of the iDRAC web page.
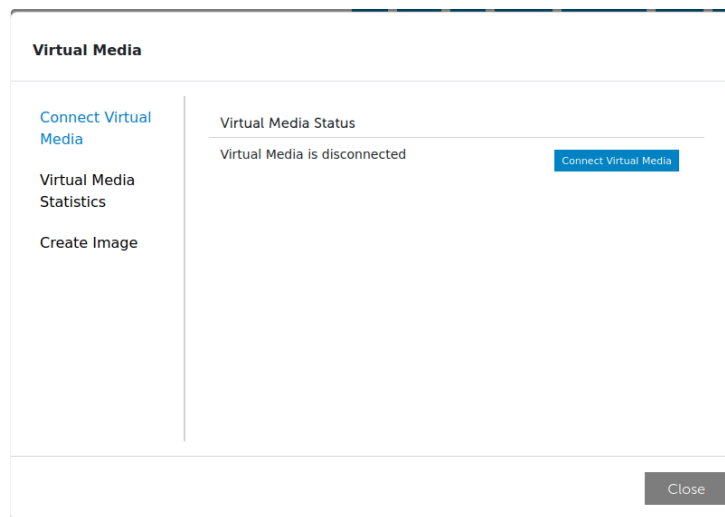

In the lower right part of the page click on Virtual Console. This will open a new browser window. If popup block is enabled the console will be blocked from opening, allow pop-ups for this website to allow the Virtual Console to load.

Connect Virtual Media

On the top bar click the blue Virtual Media button

Click on the Connect Virtual Media button

Download Installer ISO from Sophos Central

If you have not already done so, download the NDR Sensor Installation ISO image from central.sophos.com

Map ISO to Virtual DVD Device

Under Map CD/DVD click on the Browse… button

In the file selection dialog select the NDR Installation ISO image that was downloaded.

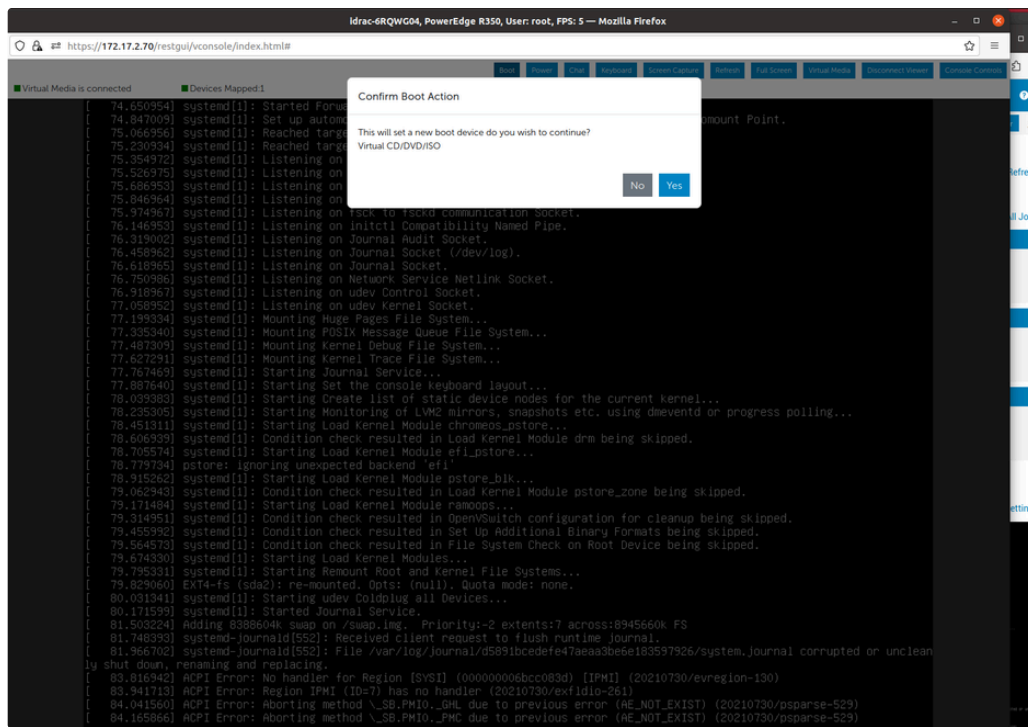With the ISO file selected the Map Device button will activate. Click the Map Device Button

Next click on the Close button.

Configure Boot from Virtual CD/DVD/ISO on next boot

On the top bar of the virtual console click on the blue Boot button.
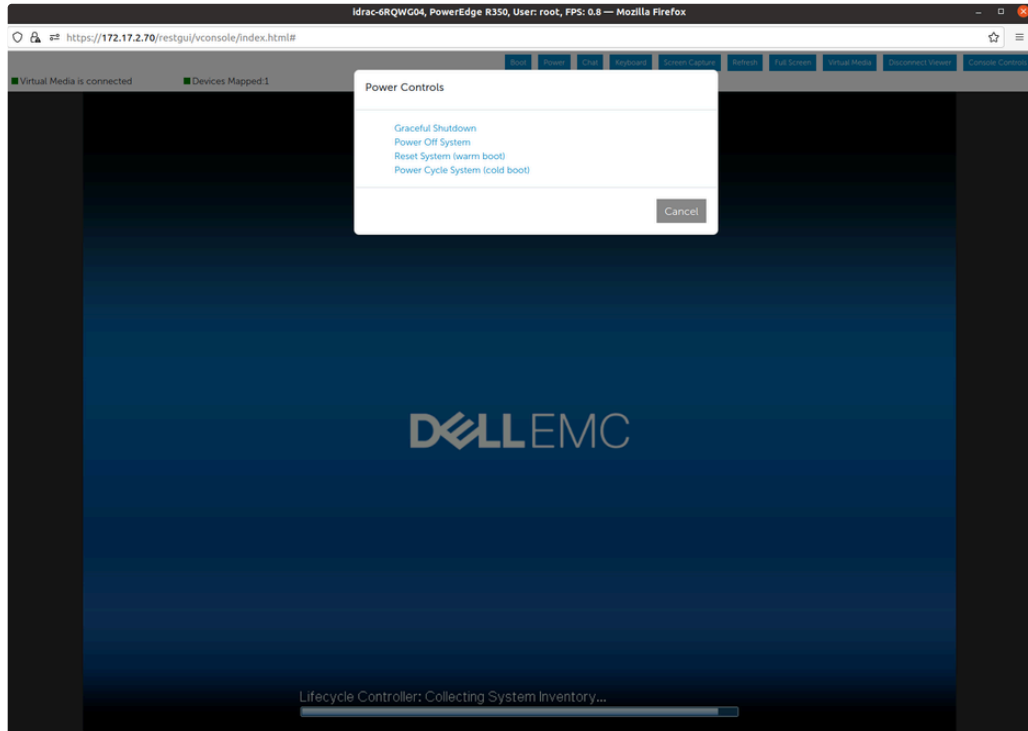

Click on the Virtual CD/DVD/ISO entry

Click on Yes to confirm booting from ISO on next boot.
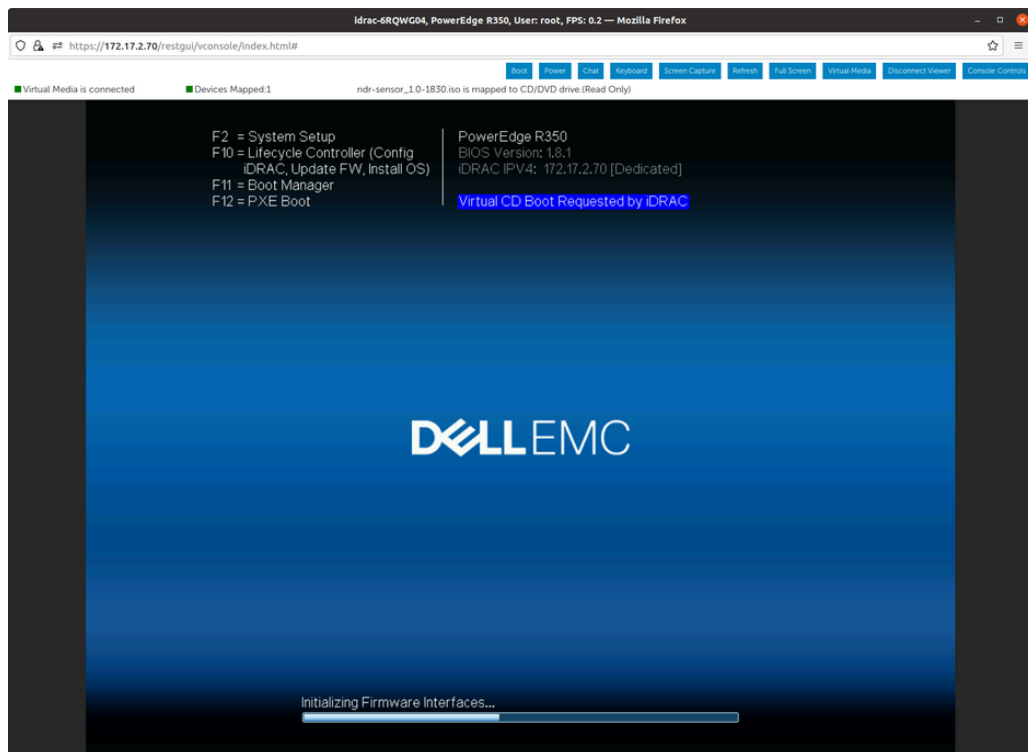
Boot from Installer ISO

Next click on the Power button

Select Reset System (warm boot)

When requested confirm the action by selecting Yes

The reboot process will trigger with the system configured to boot from the ISO Installer.
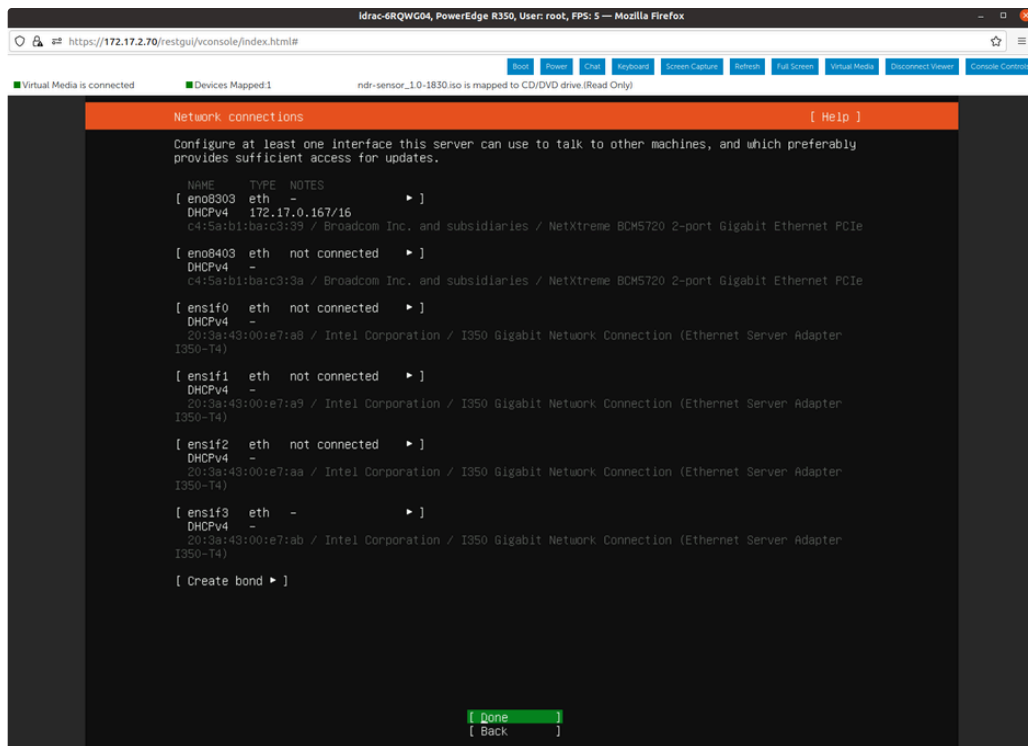
Begin Installation

For Dell system verify the first entry "Install Sophos NHDR – Dell Models" is highlighted and press enter.

Boot from ISO may take some time, please wait for the Installer program to fully load. The following screen will appear when the Installer is loaded.

Configure Network Interfaces

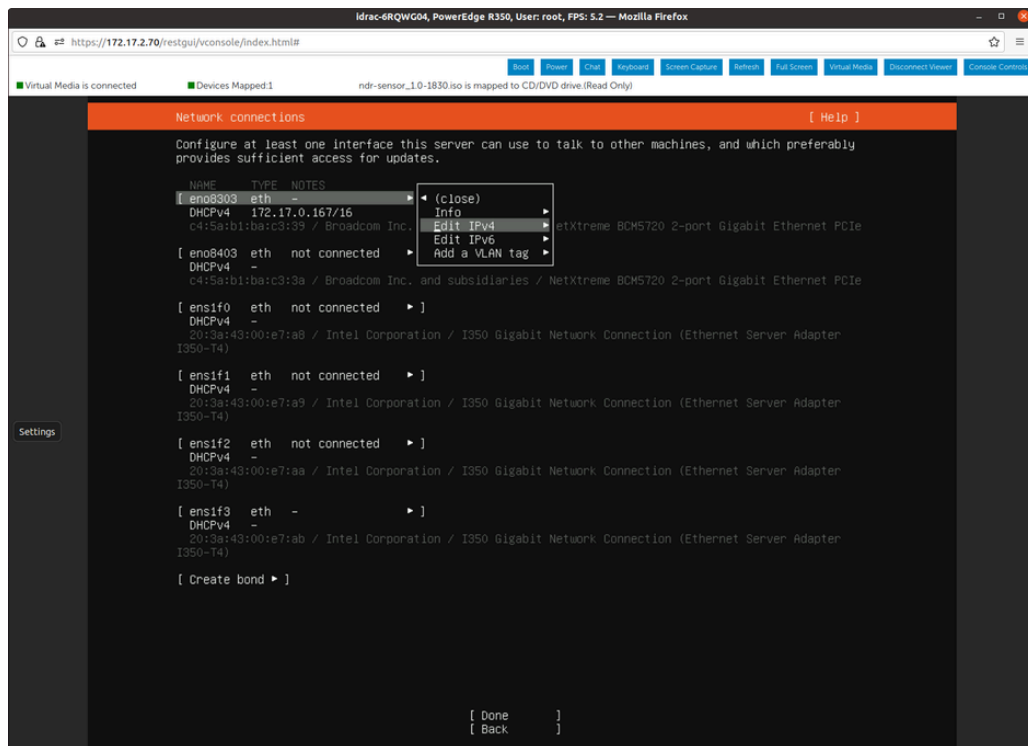The page shown above shows the network configuration page.

Configure Management IP Address

Identify the interface to be used for management network and connection to Sophos Central.
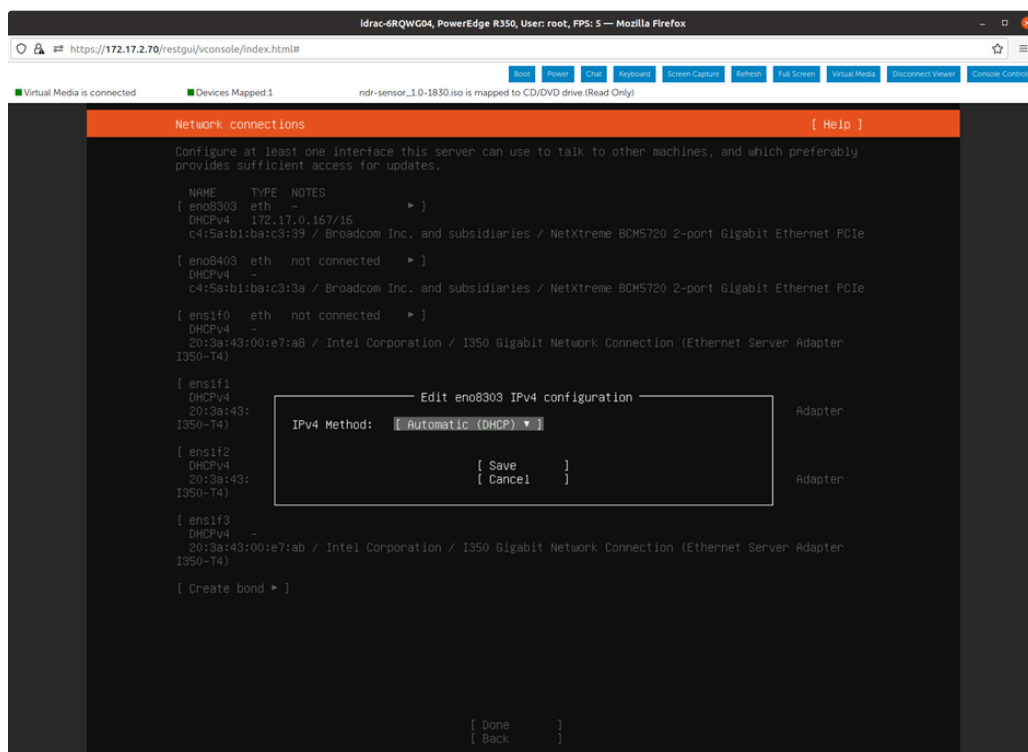
Configure this interface with an IP address, default gateway and DNS address.

DHCP configuration is possible but not recommended as the IP address of the sensor may change during a future reboot.
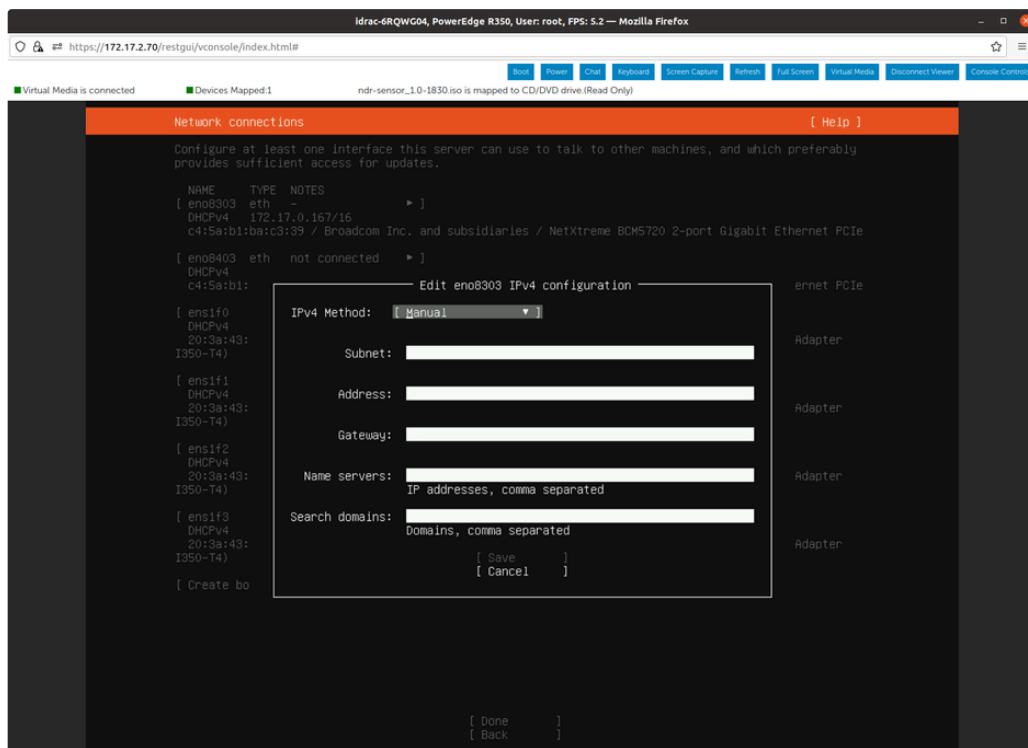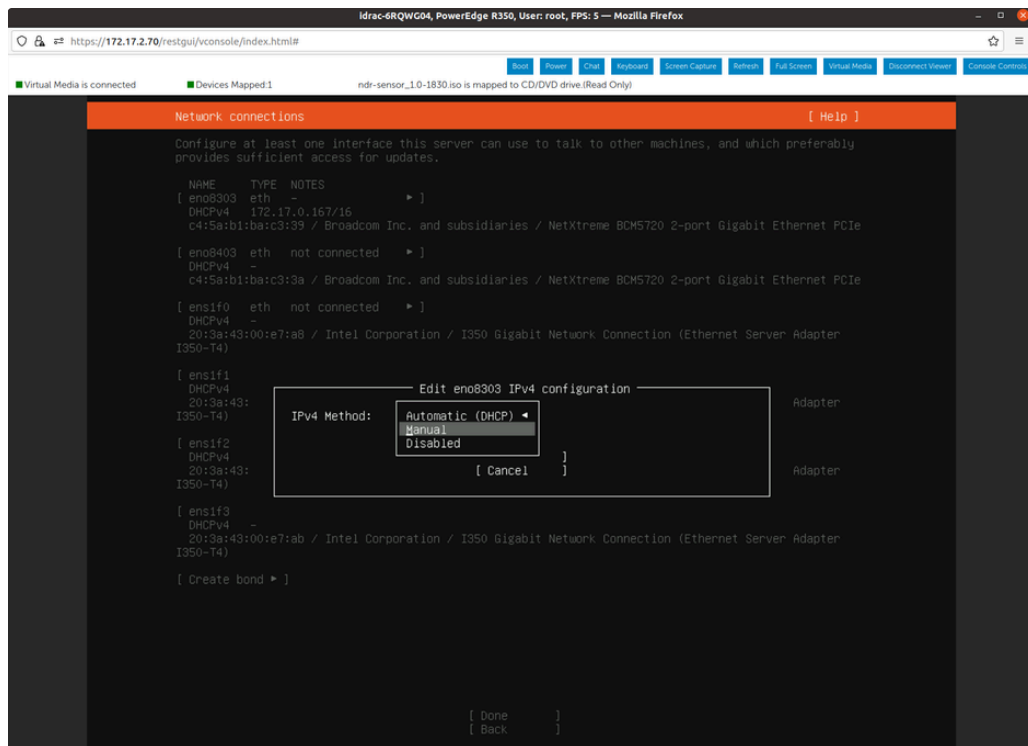
Using the arrow keys up arrow to the management interface and press enter.

Select Edit IPv4 and Press Enter.
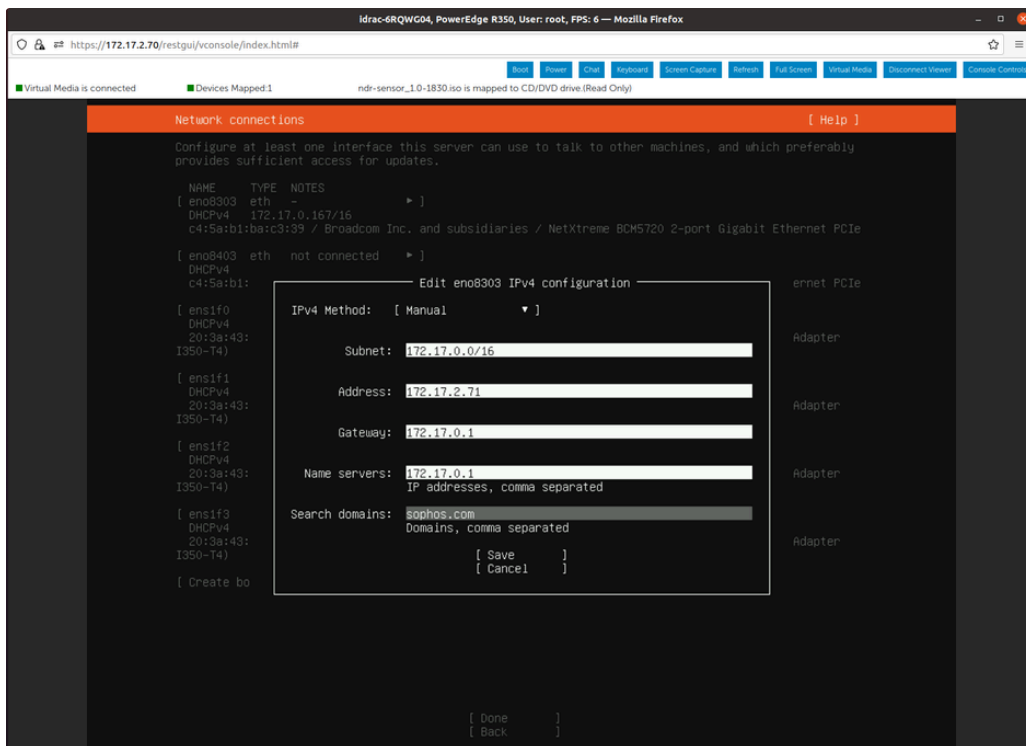

Press Enter on the IPv4 Method and select Manual

Enter the Subnet for the interface. This should be in CIDR notation.

Enter the Address for the the interface.

Enter the default gateway in the Gateway field

Enter the DNS server(s) in the Name Servers field.

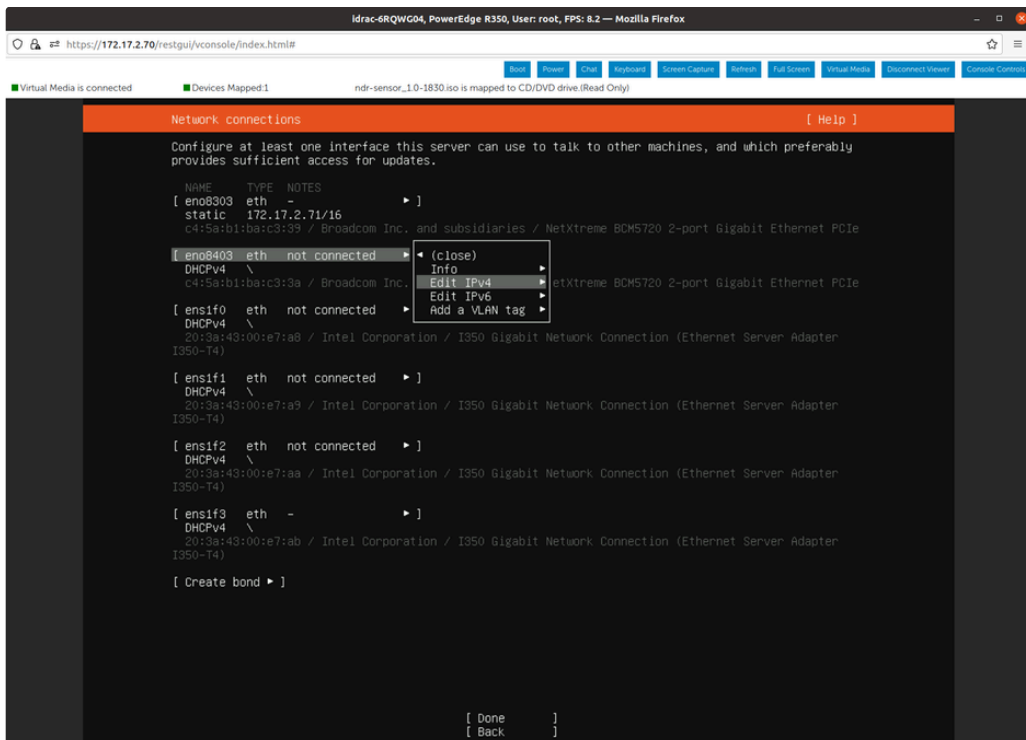Optional, Enter the domain for this host.

Above is an example of the IP address information entered.
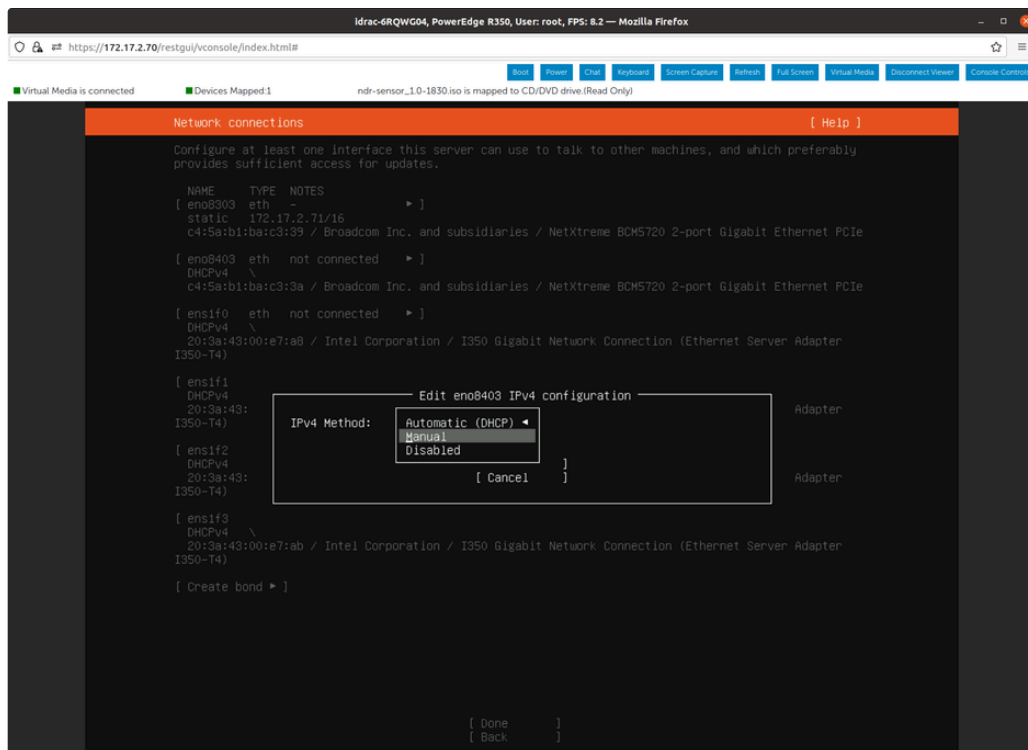
Arrow to Save to save Settings.

Configure Syslog IP address

Arrow to the interface to be used to receive Syslog data.

Press Enter to enter the configuration menu
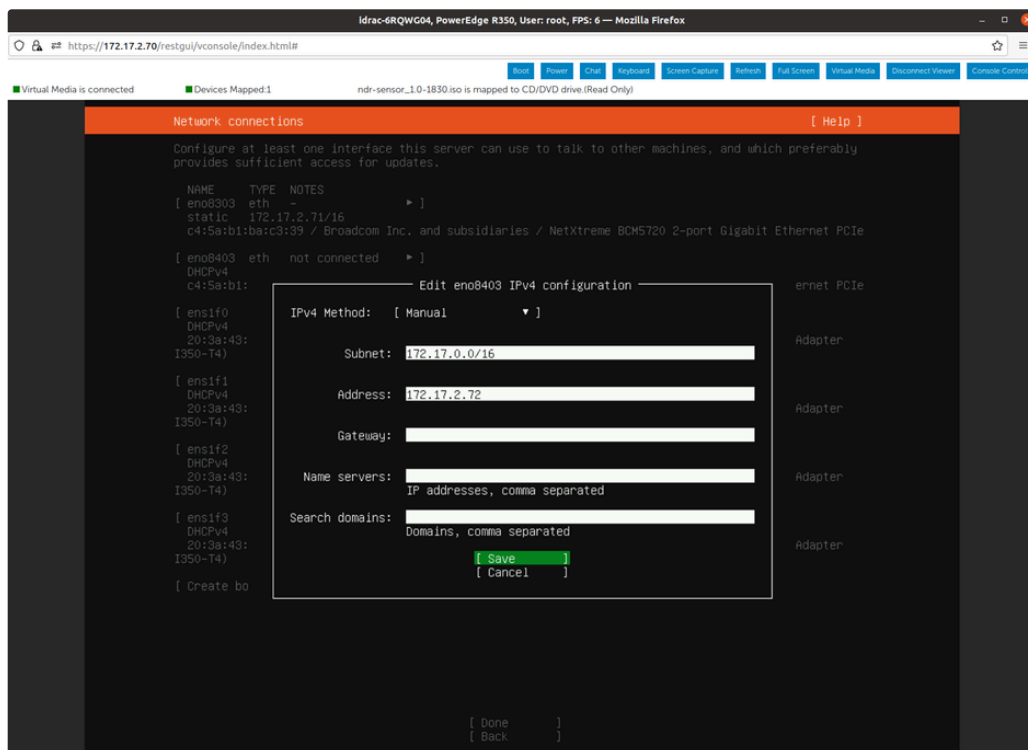

Arrow to Edit IPv4 and Press Enter.

Select Manual configuration under IPv4 Method and Press Enter

Enter the Subnet in CIDR format.
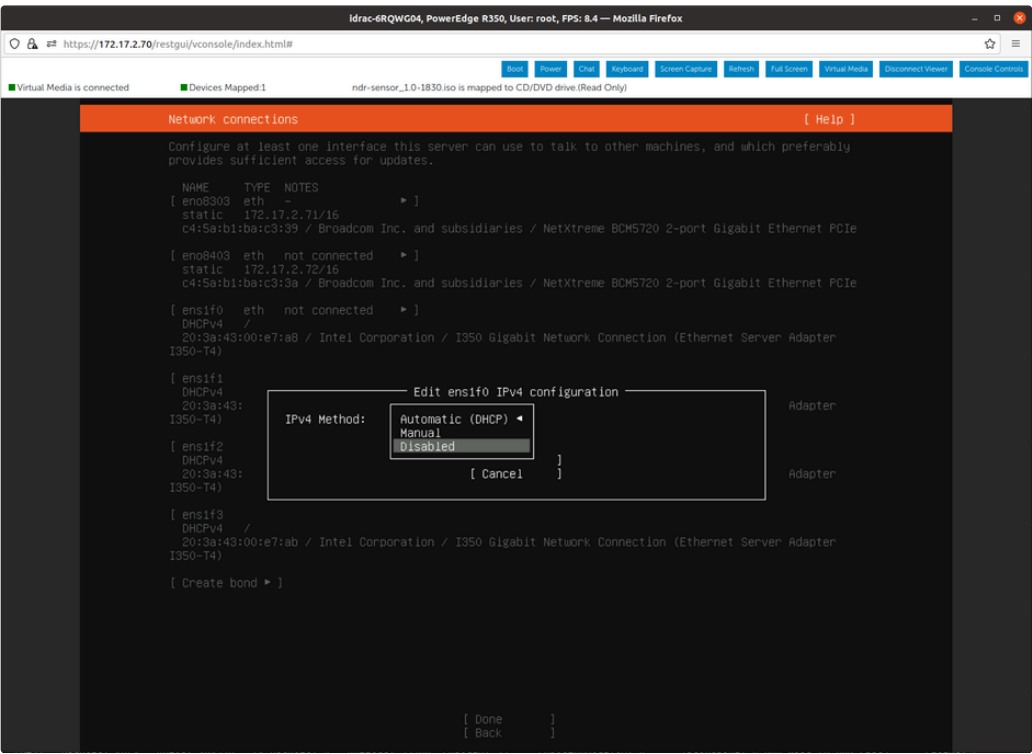
Enter the IP Address to configure in the Address field.

Do not enter a Gateway or DNS field, these should only be configurad for the management interface.
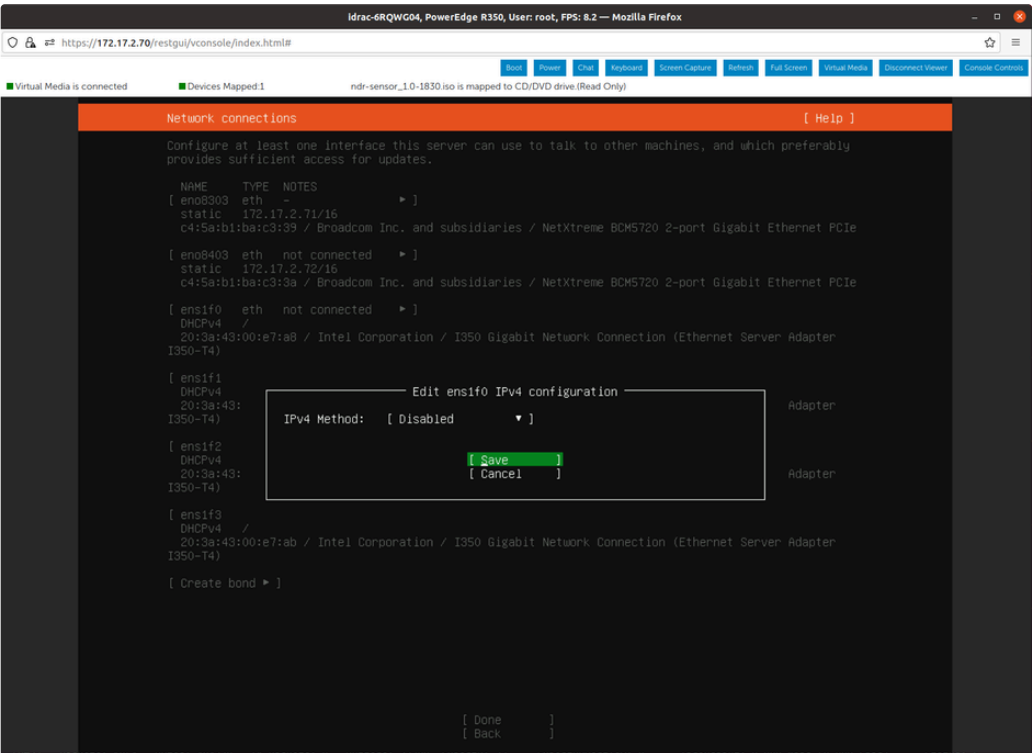
Configure Capture Interfaces

All remaining Interfaces need to be marked as disabled in this interface. Configuration of Capture interfaces will occur in the NDR configuration web page, which can be accessed after installation is completed.

Using the arrow keys arrow to the first capture interface and press Enter, highlight Edit IPv4 and press enter again.
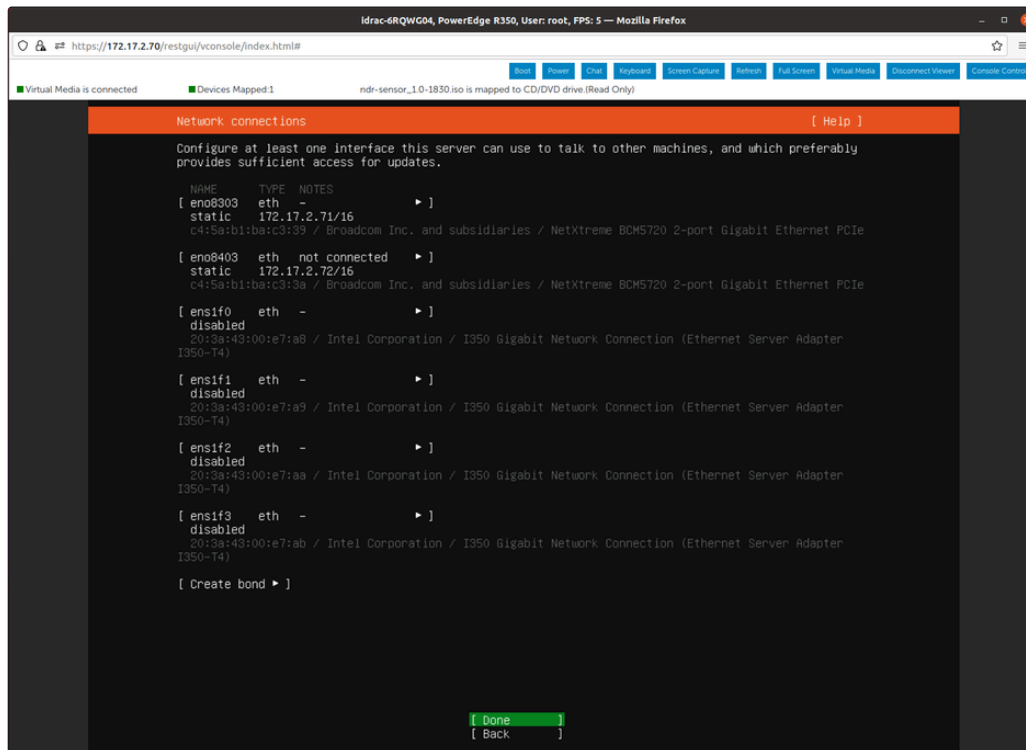

On IPv4 Method press enter, arrow down to Disabled and press Enter.

Arrow down to Save and press enter

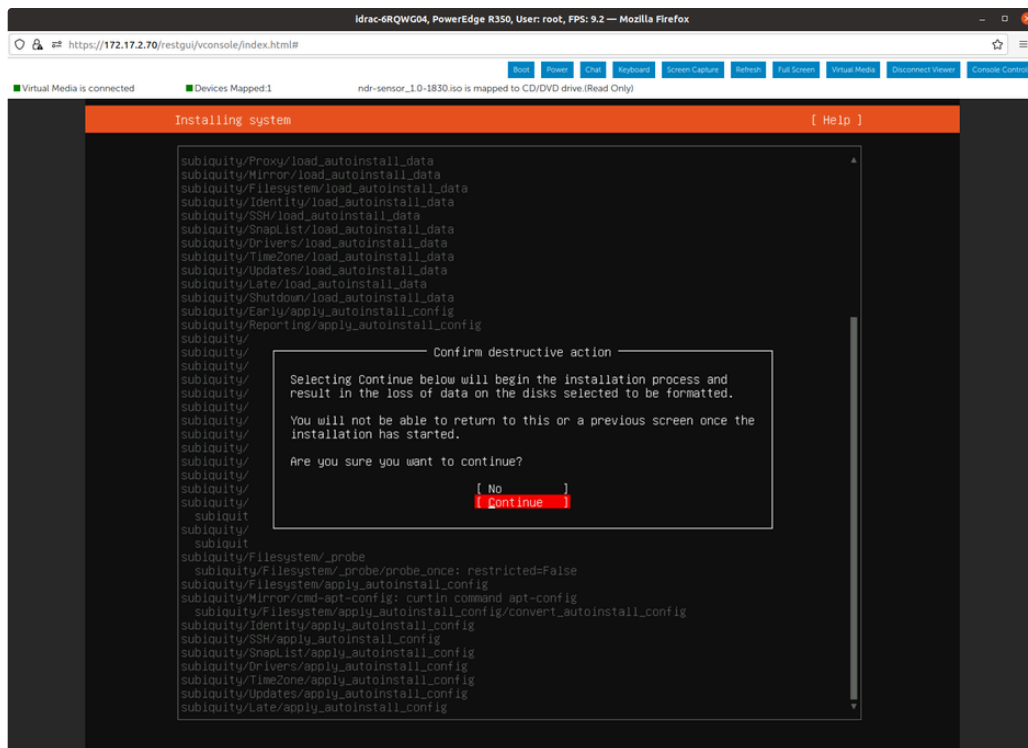Repeat this for all remaining interfaces.

Verify the following:

- Management IP address set
- Syslog receiver IP address set
- All other interfaces disabled.

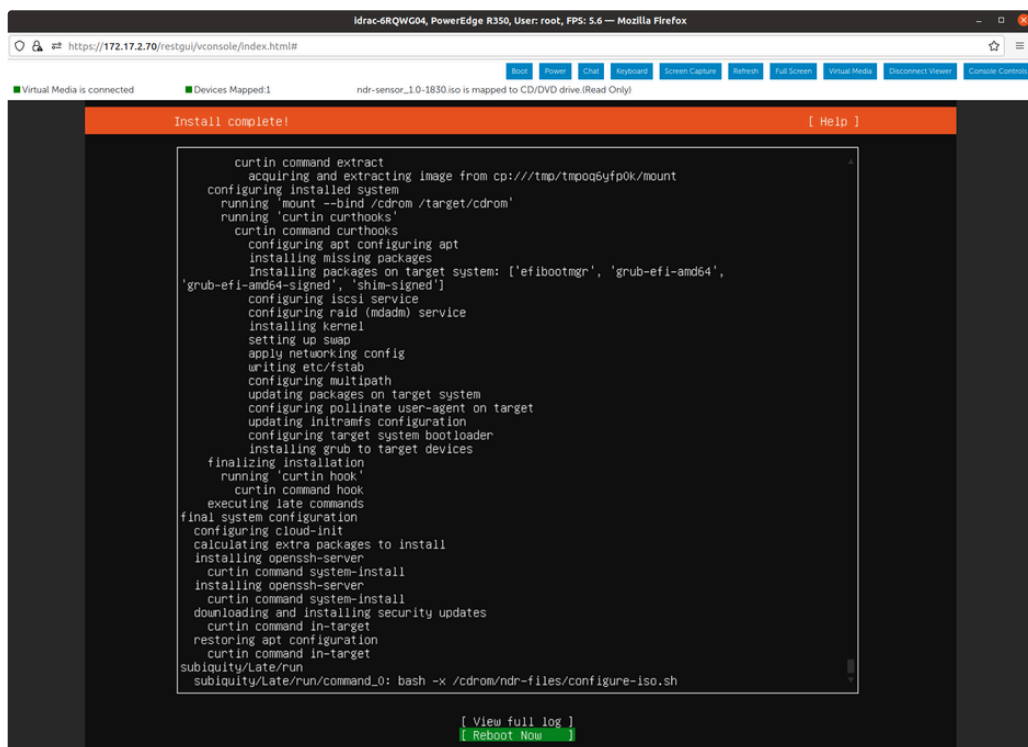Arrow down to Done and press enter.

Begin Installation Process

The system is now ready to partitiion disks and begin the installation process. Confirm the distructive action of disk partitioning and installtion by using the arrow keys to select continue and press enter.
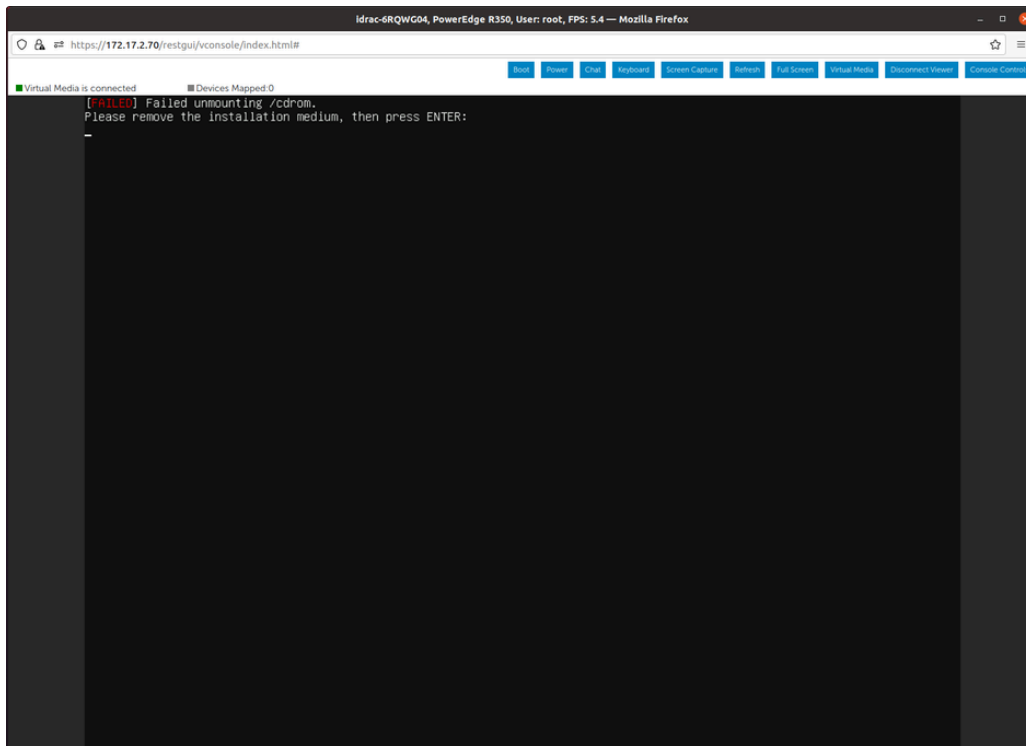
Software Installation will take some time. Installation is complete when the screen appears like the following screen.
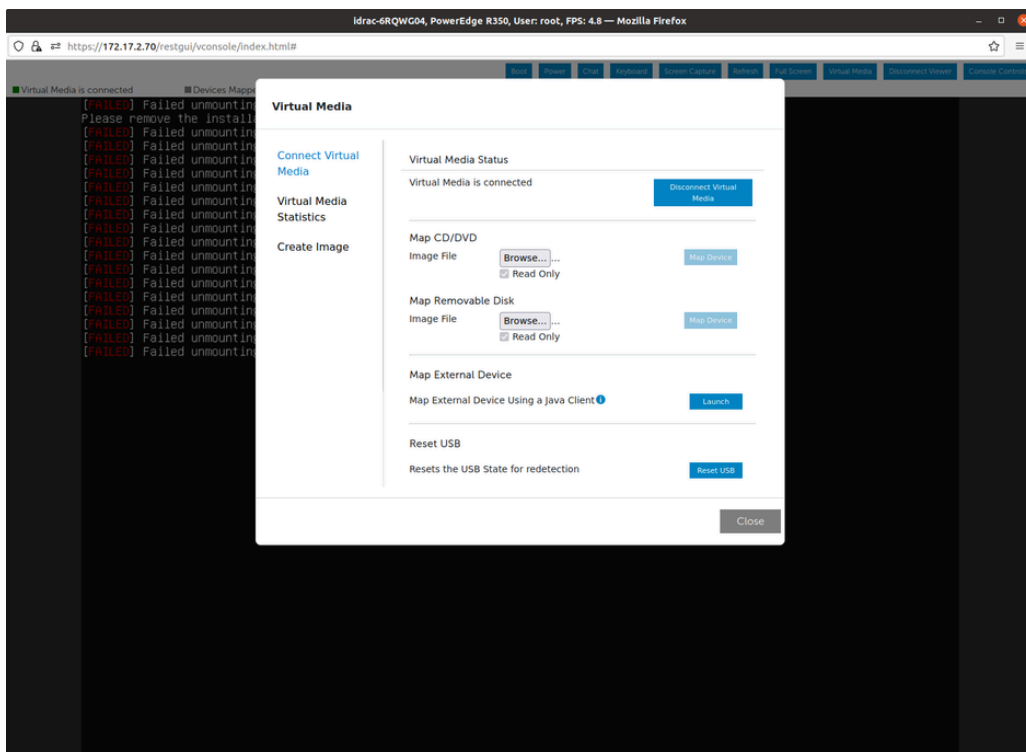
Complete Installation

Use the arrow keys to arrow down to Reboot Now and press enter.

After pressing enter the exit process will wait at the following screen

At this point select the blue Virtual Media button on the top tool bar

Click on Disconnect Virtual Media, confirm the action by pressing on the Yes button, then click on Close.

Next press enter to continue the exit and reboot process.