

Table of Contents

Configuring a Static IP Address	1
<i>Configuring Static IP Addresses Via The FreeNAS GUI</i>	1
<i>Configuring Static IP Addresses Using The FreeNAS Console Setup</i>	3

Configuring a Static IP Address

So far we have relied upon the DHCP server built into the router to assign IP addresses to the NICs in the server. This is inconvenient for reasons already outlined.

So let us assign static IP addresses to these NICs. This will ensure that the FreeNAS web GUI IP address will no longer change. This is much more expedient when administering a server.

Make sure it is outside of the range of the DHCP server.

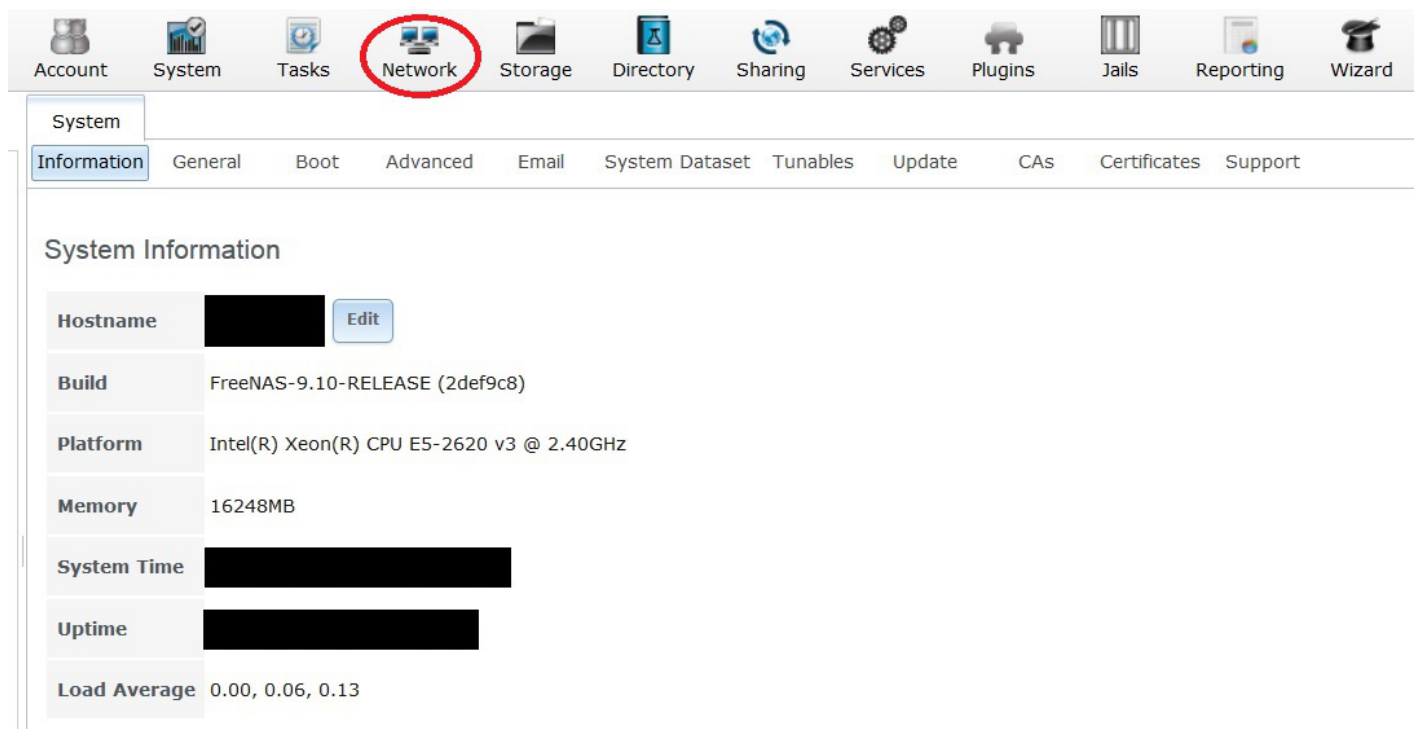
There are two ways to do this. You can do it via the FreeNAS web GUI. This is the preferred method in most cases.

The other way is via the console, either directly at the server with a keyboard and monitor, or using an IPMI remote console viewer. This worked for me.

I have included both methods in the guide so you can see which works best for you.

Configuring Static IP Addresses Via The FreeNAS GUI

Go to the “Network” page.



The screenshot shows the FreeNAS web GUI interface. At the top, there is a navigation bar with icons for Account, System, Tasks, Network (circled in red), Storage, Directory, Sharing, Services, Plugins, Jails, Reporting, and Wizard. Below this, the 'System' page is selected, and the 'Information' tab is active. The 'System Information' section displays the following details:

Hostname	[Redacted]	<input type="button" value="Edit"/>
Build	FreeNAS-9.10-RELEASE (2def9c8)	
Platform	Intel(R) Xeon(R) CPU E5-2620 v3 @ 2.40GHz	
Memory	16248MB	
System Time	[Redacted]	
Uptime	[Redacted]	
Load Average	0.00, 0.06, 0.13	

Click on “Interfaces” (1) and then click on the “Add Interface” button (2).

The “Add Interface” window will pop up.

In this window select the NIC you wish to configure from the “NIC:” drop down selection box (3).

Give the NIC a name if you wish in the “Interface name:” text box (4).

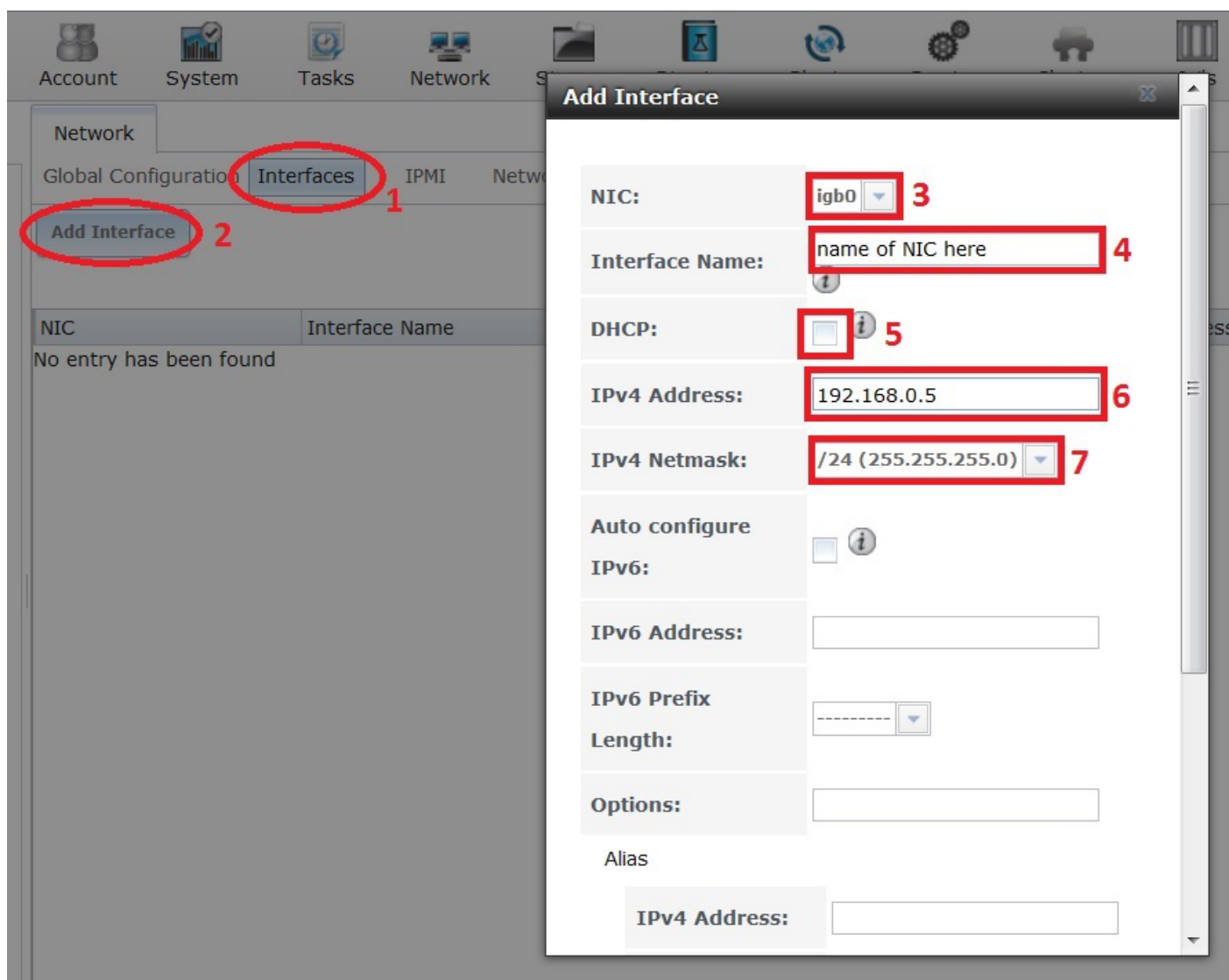
Do not tick the “DHCP:” tick box (5).

Now assign the static IP address to the NIC in the “IPv4 Address:” text box (6) (in Fester’s case this is 192.168.0.5).

Select from the “IPv4 Netmask:” drop down menu (7) the correct value for the subnet mask of your private network (Fester’s is 255.255.255.0).

My ISP does not use IPv6 at present so there is nothing to configure for this.

Now scroll down to the bottom of this window and click the “OK” button.



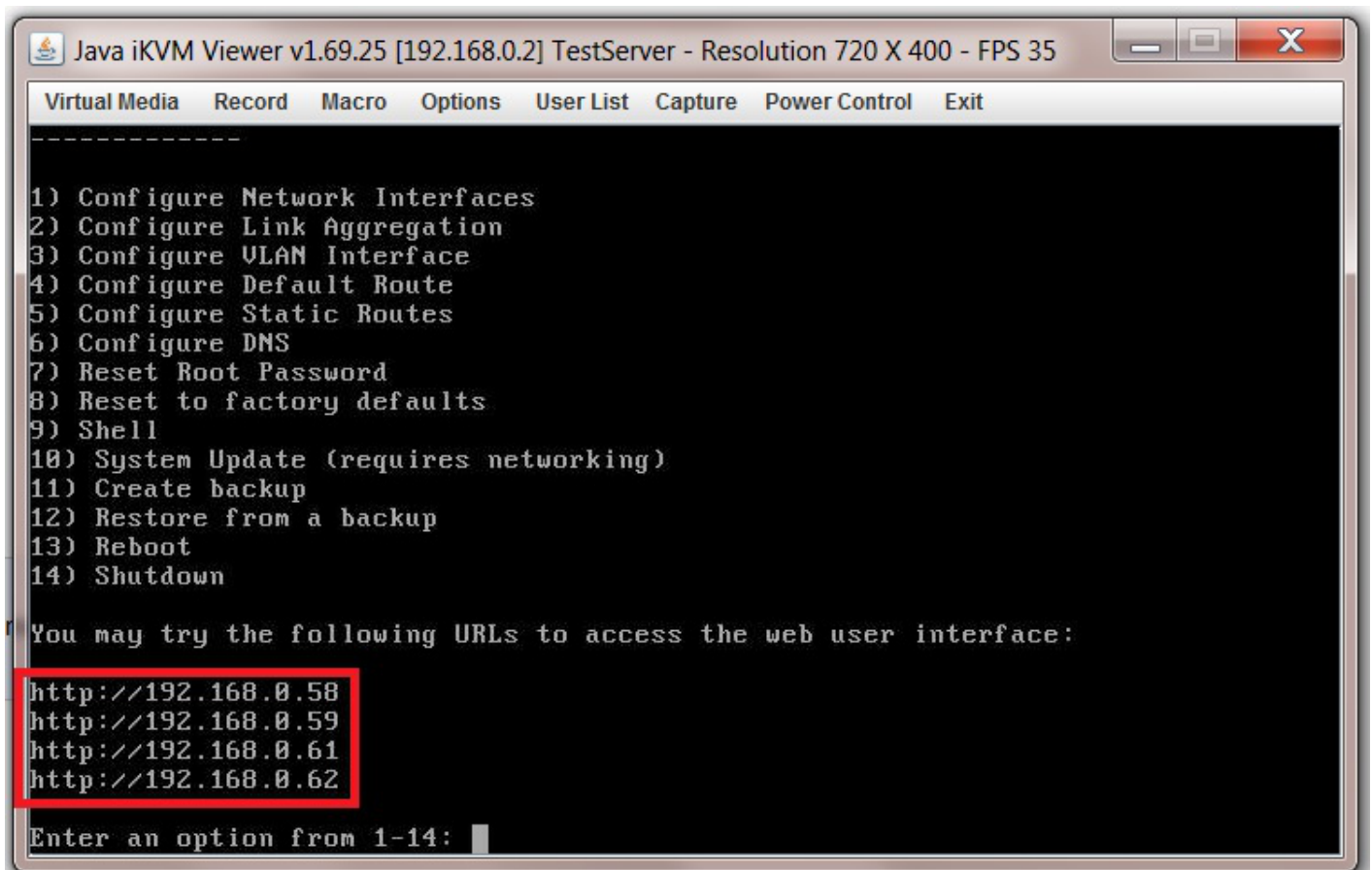
If you attempt to configure a second NIC with an IP address on the same subnet as the first within the FreeNAS web GUI, you will get an error that looks like this:

The network 192.168.0.0/24 is already in use by another NIC.

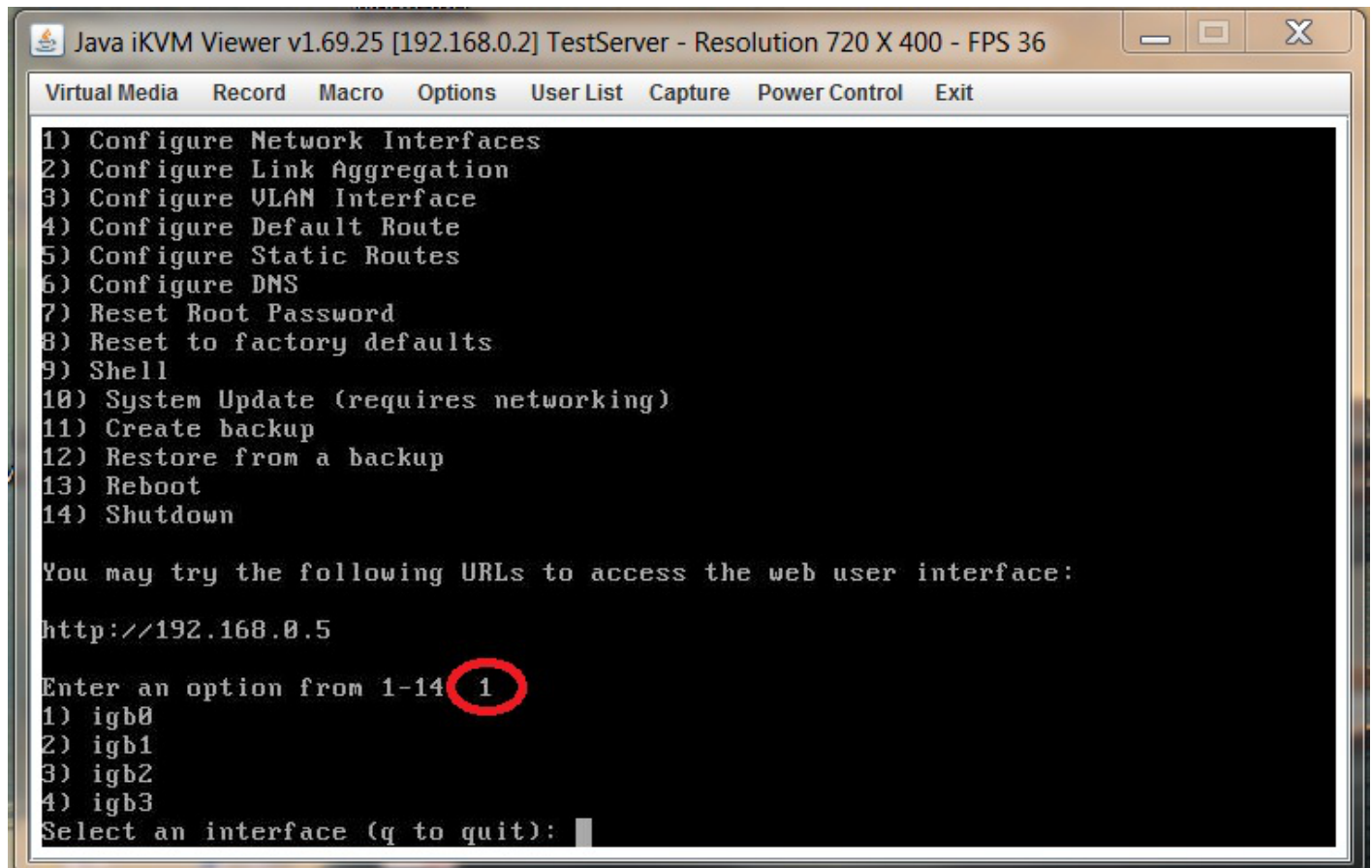
This is because multiple interfaces on the same subnet is an invalid configuration.

Configuring Static IP Addresses Using The FreeNAS Console Setup

Start the IPMI remote console viewer, or connect a keyboard and monitor to your server. You should see a screen similar to this.

A screenshot of a Java iKVM Viewer window titled "Java iKVM Viewer v1.69.25 [192.168.0.2] TestServer - Resolution 720 X 400 - FPS 35". The window has a menu bar with "Virtual Media", "Record", "Macro", "Options", "User List", "Capture", "Power Control", and "Exit". The main area is a black terminal window with white text. It displays a numbered menu of 14 options for network configuration. Below the menu, it says "You may try the following URLs to access the web user interface:" followed by four URLs: "http://192.168.0.58", "http://192.168.0.59", "http://192.168.0.61", and "http://192.168.0.62". The first two URLs are highlighted with a red box. At the bottom, it prompts "Enter an option from 1-14:" with a cursor.

For “Enter an option from 1-14:” enter **1** and press the “Return/Enter” key.

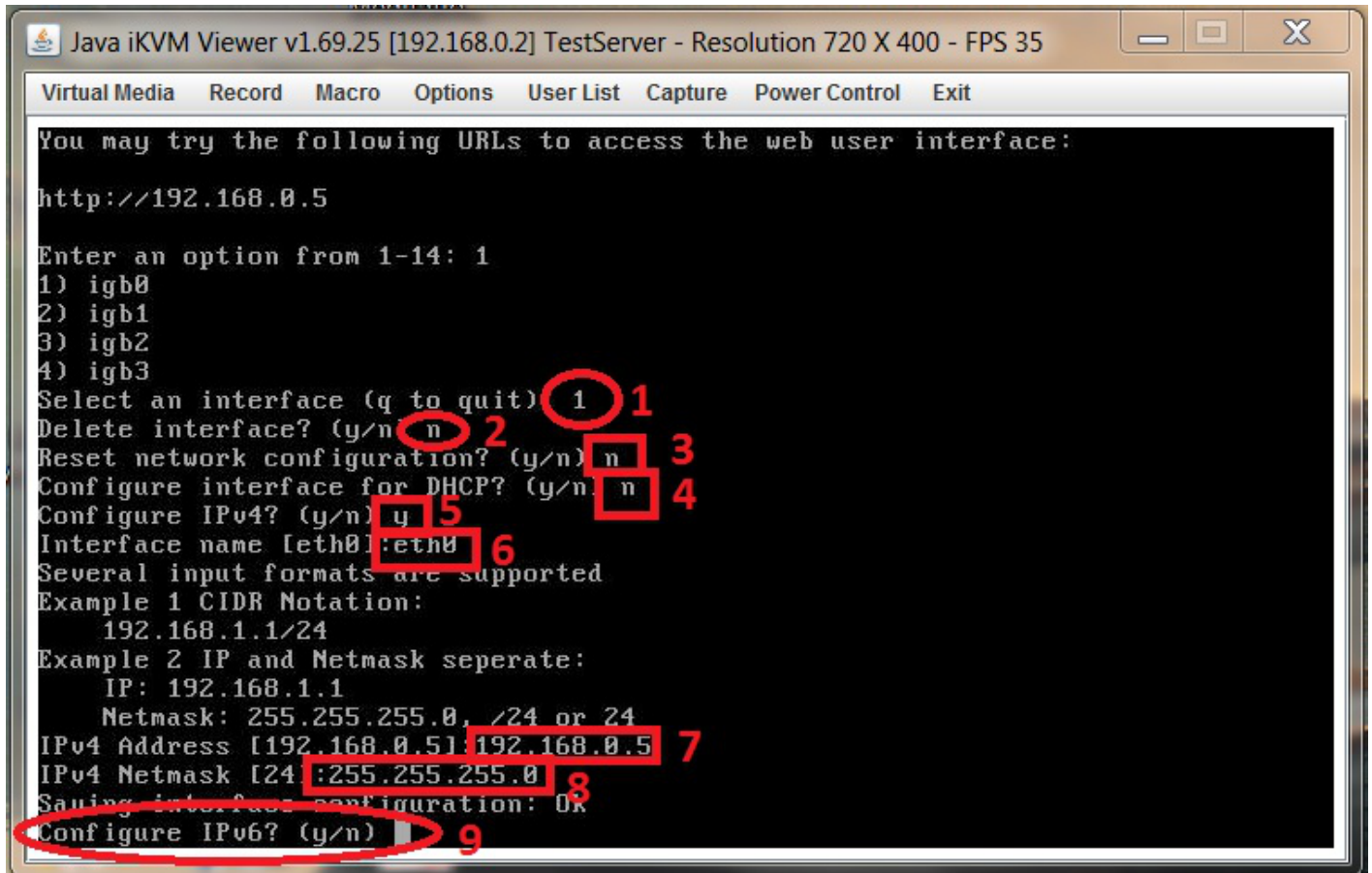


```
Java iKVM Viewer v1.69.25 [192.168.0.2] TestServer - Resolution 720 X 400 - FPS 36
Virtual Media  Record  Macro  Options  User List  Capture  Power Control  Exit
1) Configure Network Interfaces
2) Configure Link Aggregation
3) Configure VLAN Interface
4) Configure Default Route
5) Configure Static Routes
6) Configure DNS
7) Reset Root Password
8) Reset to factory defaults
9) Shell
10) System Update (requires networking)
11) Create backup
12) Restore from a backup
13) Reboot
14) Shutdown

You may try the following URLs to access the web user interface:
http://192.168.0.5

Enter an option from 1-14: 1
1) igb0
2) igb1
3) igb2
4) igb3
Select an interface (q to quit):
```

- Input the number that corresponds to the NIC you wish to configure in “Select an interface (q to quit):” (1).
- Input **n** for “Delete Interface? (y/n):” (2).
- Input **n** for “Reset network configuration? (y/n):” (3).
- Input **n** for “Configure interface for DHCP? (y/n):” (4).
- Input **y** for “Configure IPv4? (y/n):” (5).
- Give the NIC a name if you wish at “Interface name:” (6). If you don’t want to give it a name then leave it empty and press the “Return/Enter” key.
- Type in the static IP address you require at “IPv4 Address:” (7).
- Now enter the subnet mask of the private network at “IPv4 Netmask:” (8).
- The console should confirm that the configuration has been saved with an “OK”.
- If you don’t need or use IPv6, then just type **n** at “Configure IPv6? (y/n):” (9).



That's the static IP addresses assigned.

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