

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.

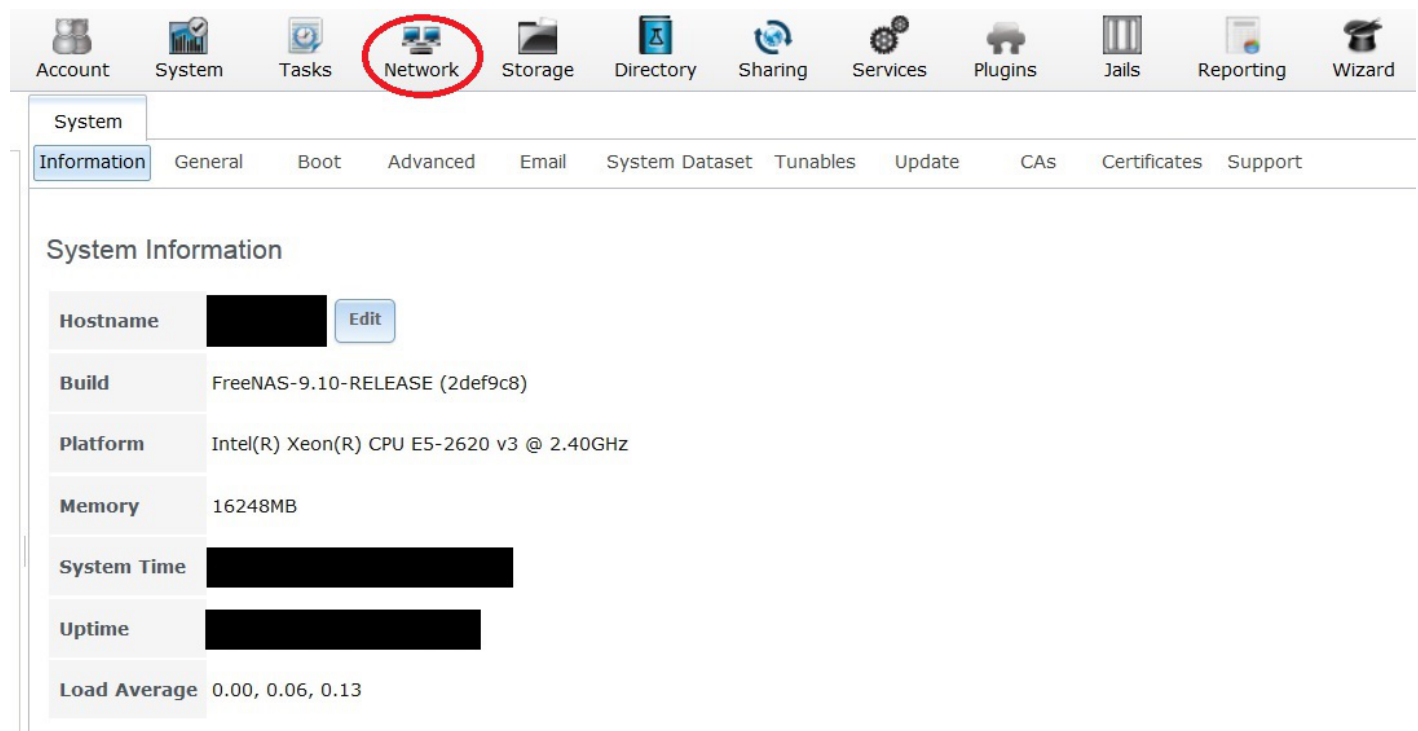
There are two ways to do this. You can do it via the FreeNAS web GUI. This is the preferred method in most cases.

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.



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.

The screenshot shows the FreeNAS web GUI with the 'Network' tab selected. The 'Interfaces' sub-tab is active, and the 'Add Interface' button is highlighted with a red circle and the number 2. The 'NIC' dropdown menu is set to 'igb0' and is highlighted with a red box and the number 3. The 'Interface Name' text box contains 'name of NIC here' and is highlighted with a red box and the number 4. The 'DHCP' checkbox is unchecked and is highlighted with a red box and the number 5. The 'IPv4 Address' text box contains '192.168.0.5' and is highlighted with a red box and the number 6. The 'IPv4 Netmask' dropdown menu is set to '/24 (255.255.255.0)' and is highlighted with a red box and the number 7. The background shows the 'Global Configuration' section with 'Interfaces' selected, and a table with columns 'NIC' and 'Interface Name'.

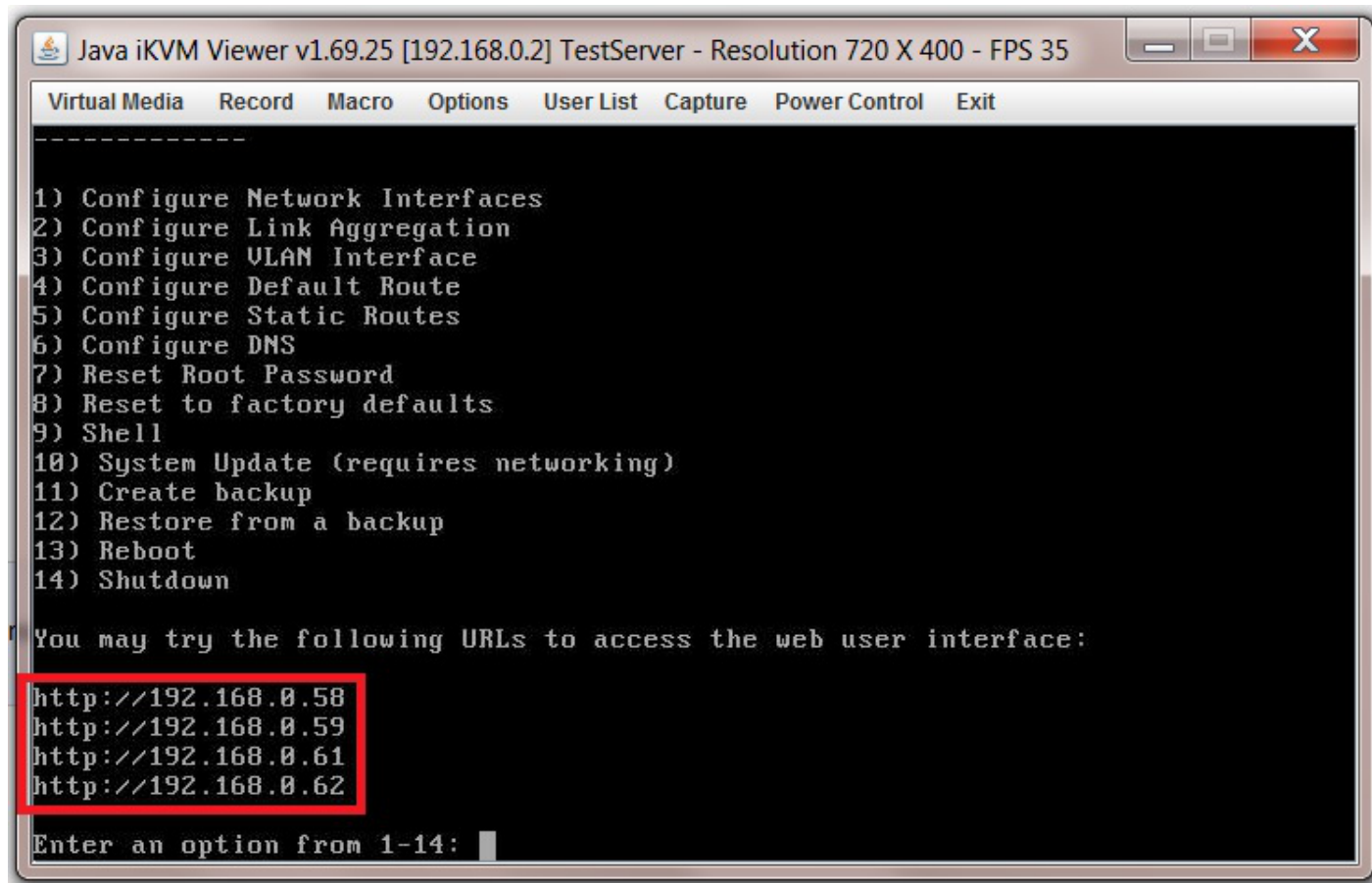
If you attempt to configure a second NIC with an IP address on the same subnet as the first within the FreeNAS web GUI, you will get an error that looks like this:

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

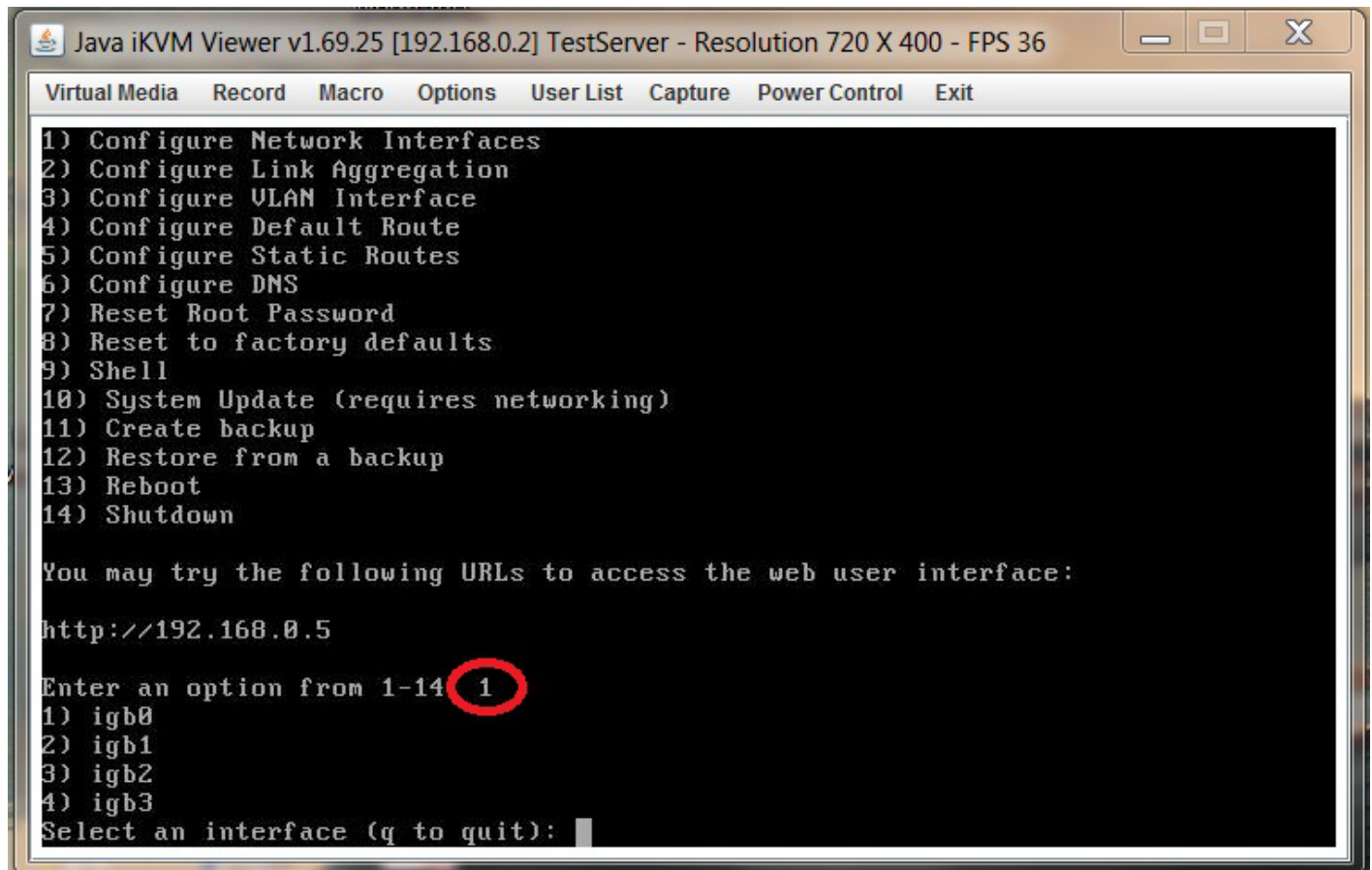
This is because multiple interfaces on the same subnet is an invalid configuration. For an explanation of why this is the case, see [this resource](#) on the FreeNAS Forums.

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 list of 14 numbered options: 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, and 14) Shutdown. Below the list, it says "You may try the following URLs to access the web user interface:". A red box highlights four URLs: http://192.168.0.58, http://192.168.0.59, http://192.168.0.61, and http://192.168.0.62. 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.



- 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).

```
Java iKVM Viewer v1.69.25 [192.168.0.2] TestServer - Resolution 720 X 400 - FPS 35
Virtual Media  Record  Macro  Options  User List  Capture  Power Control  Exit

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) 1
Delete interface? (y/n) n
Reset network configuration? (y/n) n
Configure interface for DHCP? (y/n) n
Configure IPv4? (y/n) y
Interface name [eth0]: eth0
Several input formats are supported
Example 1 CIDR Notation:
  192.168.1.1/24
Example 2 IP and Netmask separate:
  IP: 192.168.1.1
  Netmask: 255.255.255.0, /24 or 24
IPv4 Address [192.168.0.5]: 192.168.0.5
IPv4 Netmask [24]: 255.255.255.0
Saving interface configuration: Ok
Configure IPv6? (y/n) n
```

That's the static IP addresses assigned.

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