

Network Settings

The following additional Network configurations are not mandatory for the operation of XigmaNAS, but may be required in some network configurations.

Ethernet Interface properties

To configure advanced interface properties, go to the Network LAN Management page:

Network | LAN Management

IPv4 Configuration	
Type	Static
IP address	192.168.1.238 / 24
Gateway	192.168.1.232

IPv6 Configuration Activate	
Type	Auto
IP address	fe80::6a05:caff:f /
Gateway	

Advanced Configuration	
MTU	<input type="text"/> <small>Set the maximum transmission unit of the interface to n, default is interface specific. The MTU is used to limit the size of packets that are transmitted on an interface. Not all interfaces support setting the MTU, and some interfaces have range restrictions.</small>
Media	1000baseTX
Duplex	full-duplex
Wake On LAN	Off
Extra options	<input type="text"/> <small>Extra options to ifconfig (usually empty).</small>

Warning:
After you click "Save", you may also have to do one or more of the following steps before you can access NAS4Free again:

- change the IP address of your computer
- access the webGUI with the new IP address

On this page you can configure IP addressing type: DHCP or static. Note: If you use DHCP the Gateway will be provided by your DHCP server. *If you are not using DHCP you must set the Gateway manually* and this should have been done during the initial server configuration at the console. In both situations(Static or DHCP) you must set the DNS manually.

MTU size: Useful for enabling Jumbo frame support (if your NIC support it). You can check if your NIC card supports jumbo frame from this web site (FreeBSD manpage): <http://www.freebsd.org/cgi/man.cgi> Just enter your interface name (go on the Interface: Assign page for display the name of your card: fxp for example).

Additional Ethernet interfaces

In addition to the LAN interface, additional Ethernet Interfaces can be defined, if required. This can be either wired Ethernet interface or Wireless interfaces. See section 5.2.3 for more information relating to wireless LAN interfaces.

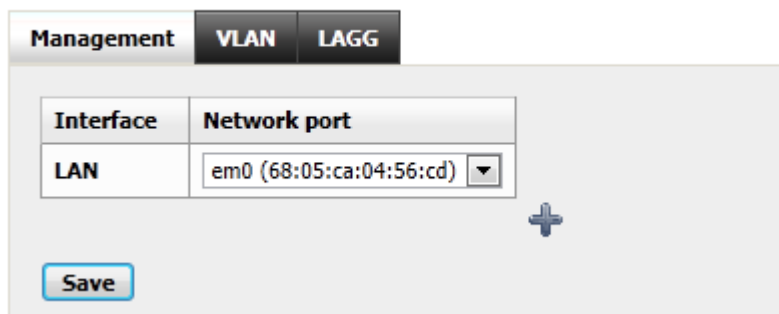
The additional interfaces may be used to administer XigmaNAS or to access the shares, so it can be a useful redundant interface to XigmaNAS for either function.

The additional Ethernet Interface can be within the existing LAN subnet or on a completely different subnet depending on your networks configuration. Where the additional interface is on a different subnet to that of the LAN interface, additional static routes may be required to facilitate connections to the other subnet, for example, the other subnet's gateway and beyond.

Before adding an additional Ethernet Interface to XigmaNAS, ensure that the additional interfaces are installed when XigmaNAS is booted.

To add an additional interface, go to the Interfaces (assign) page. If your additional Ethernet interface is recognised, you will have a **+** alongside the standard display, as shown below. If you do not have a **+** on this display, your interface is either not correctly installed or not recognised by XigmaNAS.

Network | Interface Management

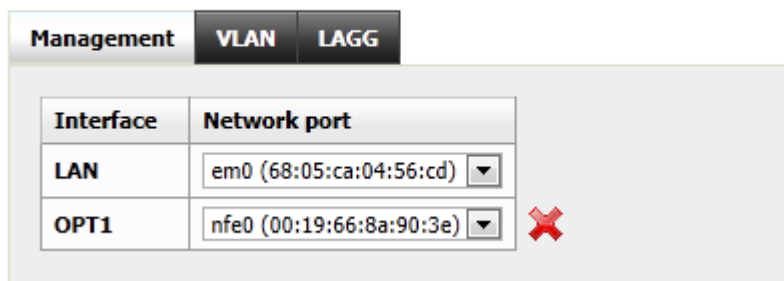


Interface	Network port
LAN	em0 (68:05:ca:04:56:cd) +

Save

Clicking on the **+** to add the additional Interface called OPT1.

Network | Interface Management



Interface	Network port
LAN	em0 (68:05:ca:04:56:cd)
OPT1	nfe0 (00:19:66:8a:90:3e) X

Save

OPT1 is the default name of the interface, and this can be customized. Once OPT1 is configured you will notice an additional level under Interfaces (assign) called OPT1.

Click Save and reboot XigmaNAS to ensure the additional interface is recognised. You can reboot XigmaNAS via the Diagnostics/Reboot System page.

Once XigmaNAS is again operational, you can configure the OPT1 interface and rename it to

something more relevant to your network.

As per the display shown below, Click the Enable Optional 1 interface check box.

- Enter a description for the interface.
- Enter the IP Address and Subnet for the Interface and click Save.
- Change the MTU size if you need/want to. We recommend leaving this blank unless you know what you are doing and have a requirement to change the MTU size.
- This new Interface name in the Navigation Tree and other displays like ping/traceroute, etc will be updated.

A reboot is not required.

Interfaces | Optional 1 (OPT1)

IPv4 Configuration <input checked="" type="checkbox"/> Activate	
Type	Static
Description	OPT1 Office <small>You may enter a description here for your reference.</small>
IP address	192.168.1.239 / 24
IPv6 Configuration <input type="checkbox"/> Activate	
Type	Auto
IP address	
Advanced Configuration	
MTU	1500 <small>Set the maximum transmission unit of the interface to n, default is interface specific. The MTU is used to limit the size of packets that are transmitted on an interface. Not all interfaces support setting the MTU, and some interfaces have range restrictions.</small>
Media	1000baseSX
Duplex	full-duplex
Extra options	 <small>Extra options to ifconfig (usually empty).</small>
<input type="button" value="Save"/>	

Security Note on additional interfaces: XigmaNAS does not provide any routing between Ethernet interfaces, so any potential security risks of 'joining' two networks via XigmaNAS should be limited. But, there is always the potential for virus infected files stored on XigmaNAS to be accessible from either network, and so, it is important that a current and up to date anti-virus application is able to scan all files stored on XigmaNAS, from time to time. Is not a case of viruses 'jumping' from one network to another, its more likely that a user on one network will save a file on XigmaNAS and then that is access by another user on the other network.

Static Routes

In most LAN environments, a single LAN interface will be used (the LAN interface) and its default gateway will provide the interface to other networks. Where multiple LAN interfaces are configured in XigmaNAS, then additional static routes may be needed in XigmaNAS to permit network traffic to the other networks. Note: This configuration is usually not required unless you have to direct traffic from one subnet via another.

In the example below the interface 'LAN' has the IP Address of 192.168.80.130 and its default gateway is 192.168.80.254, my Internet router. I have another router with a local address of 192.168.80.2 that is connect to another network (10.1.1.0/24). In order for XigmaNAS to direct traffic to the 10.1.1.0/24 network, a static route is configured directing any 10.1.1.0/24 traffic to the 192.168.80.2 (local router to its remote network) via the LAN NIC.

Network | Static routes | Add

Interface	LAN <input type="button" value="v"/> Choose which interface this route applies to.
Destination network	10.1.1.0 / 24 <input type="button" value="v"/> Destination network for this static route
Gateway	192.168.80.2 Gateway to be used to reach the destination network.
Description	To Secondary House You may enter a description here for your reference.

From: <https://www.xigmanas.com/wiki/> - XigmaNAS

Permanent link: https://www.xigmanas.com/wiki/doku.php?id=documentation:setup_and_user_guide:network_interface_lan

Last update: **2018/09/30 22:53**

