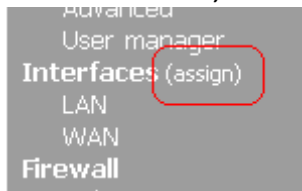


For these instructions, I am using a Soekris 4511 box with a default install with a LAN subnet of 192.168.2.1/24 and DHCP.

System information	
Name	m0n0wall.local
Version	1.32 built on Sat Apr 17 21:01:56 CEST 2010
Platform	Soekris net45xx

To add VLANs, click on “assign”.



Click on the VLANs tab. Note that my LAN is on interface sis1 – we will need this info in a couple steps.

### Interfaces: Assign network ports

Interface assignments **VLANs**

Interface	Network port
LAN	sis1 (NatSemi DP8381[56] 10/100BaseTX, 00:00:24:cb:93:c1) ▾
WAN	sis0 (NatSemi DP8381[56] 10/100BaseTX, 00:00:24:cb:93:c0) ▾

Save

Click on the “+” to add your first VLAN interface.

### Interfaces: Assign network ports

Interface assignments **VLANs**

Interface	VLAN tag	Description
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**Note:**  
Not all drivers/NICs support 802.1Q VLAN tagging properly. On cards that do not explicitly support it, VLAN tagging will still work, but the reduced MTU may cause problems. See the m0n0wall homepage.

A red circle highlights a plus sign (+) button in the bottom right corner of the table area.

Make sure to select the proper interface, for this example sis1.  
Assign a VLAN tag such as 10.  
Give the interface a description.  
Save.

### Interfaces: Assign network ports: Edit VLAN

Parent interface	sis1 (NatSemi DP8381[56] 10/100BaseTX, 00:00:24:cb:93:c1) ▾
VLAN tag	10 802.1Q VLAN tag (between 1 and 4094)
Description	Production 10 Network You may enter a description here for your reference (not parsed).







**Save**

DO NOT REBOOT UNTIL TOLD TO DO SO!! Rebooting now may leave your box in a state where you will have to reset it.

### Interfaces: Assign network ports


 The changes have been saved. You must [reboot](#) your firewall for changes to take effect.

Using the steps above, build out all of your required VLANs.

Interface	VLAN tag	Description	
sis1	10	Production 10 Network	 
sis1	20	Guest 20 Network	 
sis1	30	Testing 30 Network	 

Click on “Interface assignments”.

### Interfaces: Assign network ports

 The changes have been saved. You must [reboot](#) your device.


**Interface assignments** | VLANs

Interface	VLAN tag	Description
sis1	10	Production 1
sis1	20	Guest 20 Net
sis1	30	Testing 30 N

Click on the “+” to add your new VLAN interfaces.

**Interface assignments** | VLANs



Interface	Network port
LAN	sis1 (NatSemi DP8381[56] 10/100BaseTX, 00:00:24:cb:93:c1)
WAN	sis0 (NatSemi DP8381[56] 10/100BaseTX, 00:00:24:cb:93:c0)



**Warning:**

Note that the LAN is still assigned to the physical interface. It *may* be possible on some hardware to run physical and virtual interfaces concurrently, but I would strongly recommend not doing so.

Interface	Network port
LAN	sis1 (NatSemi DP8381[56] 10/100BaseTX, 00:00:24:cb:93:c1)
WAN	sis0 (NatSemi DP8381[56] 10/100BaseTX, 00:00:24:cb:93:c0)
OPT1	VLAN 10 on sis1 (Production 10 Network)

Select an appropriate VLAN to be you new LAN and assign a VLAN to OPT1.  
Save.

Interface	Network port
LAN	VLAN 10 on sis1 (Production 10 Network)
WAN	sis0 (NatSemi DP8381[56] 10/100BaseTX, 00:00:24:cb:93:c0)
OPT1	VLAN 20 on sis1 (Guest 20 Network)

Save

Continue to “+” and add all required VLANs.  
Save.

Interface assignments **VLANs**

Interface	Network port
LAN	VLAN 10 on sis1 (Production 10 Network)
WAN	sis0 (NatSemi DP8381[56] 10/100BaseTX, 00:00:24:cb:93:c0)
OPT1	VLAN 20 on sis1 (Guest 20 Network)
OPT2	VLAN 30 on sis1 (Testing 30 Network)

Save

You will notice that your new interfaces appear on the left menu.

- Interfaces (assign)
- LAN
- WAN
- OPT1
- OPT2
- Firewall

Note that the LAN still has its original IP address. (I set this box up with 192.168.2.1/24 intentionally)

Primary configuration Secondary IPs

IP address 192.168.2.1 / 24

Save

**Warning:**  
after you click "Save", you must reboot your device and you may also have to do one or more of the following:  
Firewall  
NAT  
Traffic Shaper  
User Manager

Click on the "OPT1" interface and examine the options.

System  
General setup  
Static routes  
Firmware  
Advanced  
User manager  
Interfaces (assign)  
LAN  
WAN  
OPT1  
OPT2  
Firewall  
Rules  
NAT  
Traffic shaper  
Aliases  
Services  
DNS forwarder  
Dynamic DNS

### Interfaces: Optional 1 (OPT1)

Primary configuration Secondary IPs

Enable Optional 1 interface

Description OPT1  
Enter a description (name) for the interface here.

**IP configuration**

Bridge with none

IP address / 31

Save

Enable and configure the interface as desired. Save. Repeat for all interfaces.

System  
General setup  
Static routes  
Firmware  
Advanced  
User manager  
Interfaces (assign)  
LAN  
WAN  
OPT1  
OPT2  
Firewall  
Rules  
NAT  
Traffic shaper  
Aliases  
Services  
DNS forwarder  
Dynamic DNS  
DHCP server

### Interfaces: Optional 1 (OPT1)

Primary configuration Secondary IPs

Enable Optional 1 interface

Description Guest Network  
Enter a description (name) for the interface here.

**IP configuration**

Bridge with none

IP address 172.16.20.1 / 24

Save

**Note:**  
be sure to add firewall rules to permit traffic through the interface. Firewall rules

You should now have all of your interfaces set up. It is now safe to reboot the m0n0 system.

**System**  
General setup  
Static routes  
Firmware  
Advanced  
User manager

**Interfaces (assign)**  
LAN  
WAN  
Guest Network  
Testing Network

**Firewall**  
Rules  
NAT  
Traffic shaper  
Aliases

**Services**  
DNS forwarder  
Dynamic DNS

## Interfaces: Optional 2 (Testing Network)

**!** The changes have been saved. You must **reboot** your firewall for changes to take effect.

**Primary configuration**   **Secondary IPs**

**Enable Optional 2 interface**

Description:   
Enter a description (name) for the interface here.

**IP configuration**

**Bridge with**:

**IP address**:  /

While your system is rebooting, you must plug the mono into a trunk port on your switch and plug your computer into the appropriate access port for the LAN subnet.

Things to do yet:

- Set up DHCP on the additional interfaces if needed.
- Set up appropriate firewall rules.
- Backup the config.