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1 Connecting to the firewall

The firewall console is available using VNC. The following table gives the VNC ports:

Firewall	Port
fw1.ws.nsrc.org	10.10.0.241:71
fw2.ws.nsrc.org	10.10.0.241:72
fw3.ws.nsrc.org	10.10.0.241:73
fw4.ws.nsrc.org	10.10.0.241:74
fw5.ws.nsrc.org	10.10.0.241:75
fw6.ws.nsrc.org	10.10.0.241:76
fw7.ws.nsrc.org	10.10.0.241:77
fw8.ws.nsrc.org	10.10.0.241:78
fw9.ws.nsrc.org	10.10.0.241:79

Use your vnc client to connect to the firewall for your group.

You should see something like this:

2 Setting the IP addresses

You'll see that there are two lines in the middle of the screen which we need to configure to set the addresses for the WAN and the LAN.

```
QEMU (fw9.ws.nsrc.org)
Starting NTP time client...done.
Configuring firewall.....done.
Generating RRD graphs...done.
Starting syslog...done.
Starting CRON... done.
Bootup complete

FreeBSD/amd64 (pfSense.localdomain) (ttyv0)

*** Welcome to pfSense 2.1-RELEASE-pfSense (amd64) on pfSense ***

WAN (wan)      -> em0      ->
LAN (lan)      -> em1      ->

0) Logout (SSH only)          8) Shell
1) Assign Interfaces          9) pfTop
2) Set interface(s) IP address 10) Filter Logs
3) Reset webConfigurator password 11) Restart webConfigurator
4) Reset to factory defaults    12) pfSense Developer Shell
5) Reboot system              13) Upgrade from console
6) Halt system                14) Enable Secure Shell (sshd)
7) Ping host                  15) Restore recent configuration

Enter an option: █
```

Figure 1: alt text

Choose Option 2) Set interface(s) IP address

Then choose 1) to set the WAN address. Ignore the option to use DHCP and then set the IP address to:

10.10.N.253

Set the subnet mask to:

24

Set the WAN gateway address:

10.10.N.254

Ignore the IPv6 setup and don't revert to HTTP for configuration.

Now we'll set the LAN interface:

Choose Option 2) Set interface(s) IP address

Then choose 2) to set the LAN address. Set the IP address to:

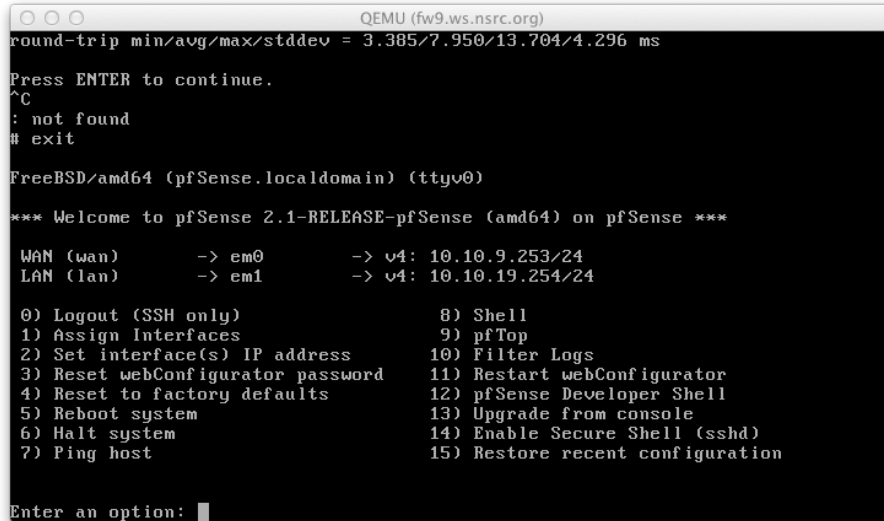
10.10.1N.254

Set the subnet mask to:

24

Ignore the LAN gateway address and the IPv6 setup and don't revert to HTTP for configuration.

3 Confirming that things are set up



```
QEMU (fw9.ws.nsrc.org)
round-trip min/avg/max/stddev = 3.385/7.950/13.704/4.296 ms
Press ENTER to continue.
^C
: not found
# exit

FreeBSD/amd64 (pfSense.localdomain) (ttyv0)

*** Welcome to pfSense 2.1-RELEASE-pfSense (amd64) on pfSense ***

WAN (wan)      -> em0      -> v4: 10.10.9.253/24
LAN (lan)      -> em1      -> v4: 10.10.19.254/24

0) Logout (SSH only)          8) Shell
1) Assign Interfaces          9) pfTop
2) Set interface(s) IP address 10) Filter Logs
3) Reset webConfigurator password 11) Restart webConfigurator
4) Reset to factory defaults    12) pfSense Developer Shell
5) Reboot system              13) Upgrade from console
6) Halt system                 14) Enable Secure Shell (sshd)
7) Ping host                    15) Restore recent configuration

Enter an option: █
```

Figure 2: alt text

Check that the addresses look correct.

4 Test the setup

Choose Option 7) Ping host

and test to:

10.10.N.254

5 Turn off the firewall temporarily

Choose Option 8) Shell

You should now see a prompt like:

```
[2.1-Release] [route@pfSense.localdomain]/root(1):
```

Type the following commands:

```
pfctl -d  
route add default 10.10.N.254
```

Normally you wouldn't need to do these commands as you'd access the firewall from the internal network.

6 Restart the webConfigurator

Choose Option 11) start webConfigurator

7 Connect to the web interface

```
https://10.10.N.253
```

Use the username: admin and password: pfsense