



How to setup Demonsaw 4 router

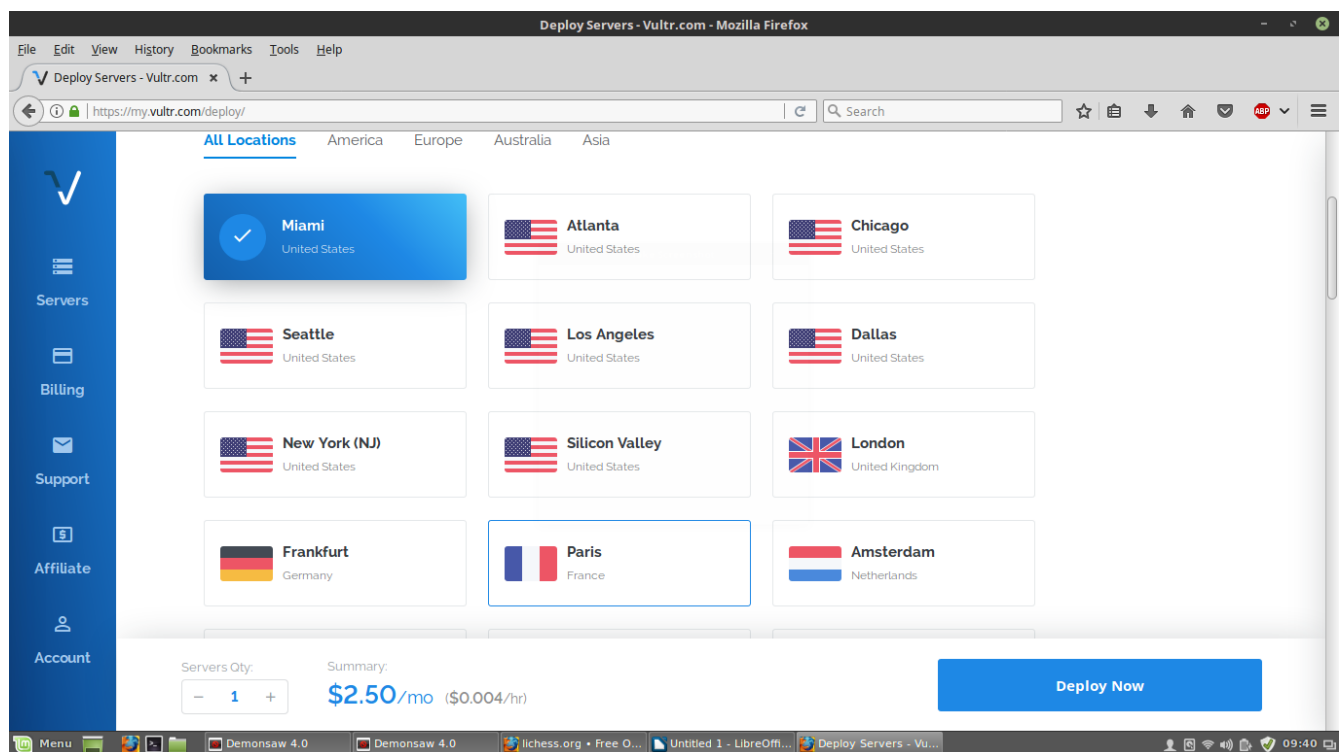
By tek
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It's very easy to have your own DS4 private network. Here's how to do it.

First, you need a VPS. I recommend <https://vultr.com> They have very good rates and i never had a problem with them.

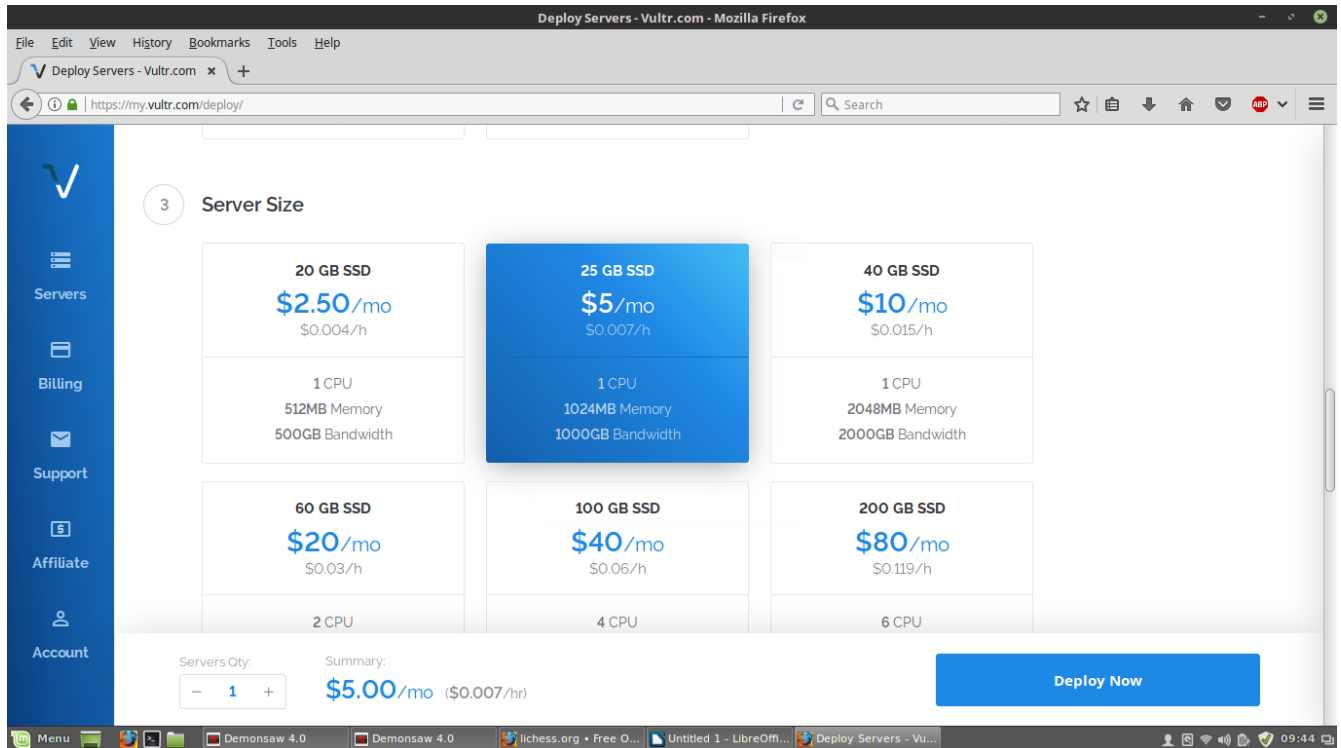
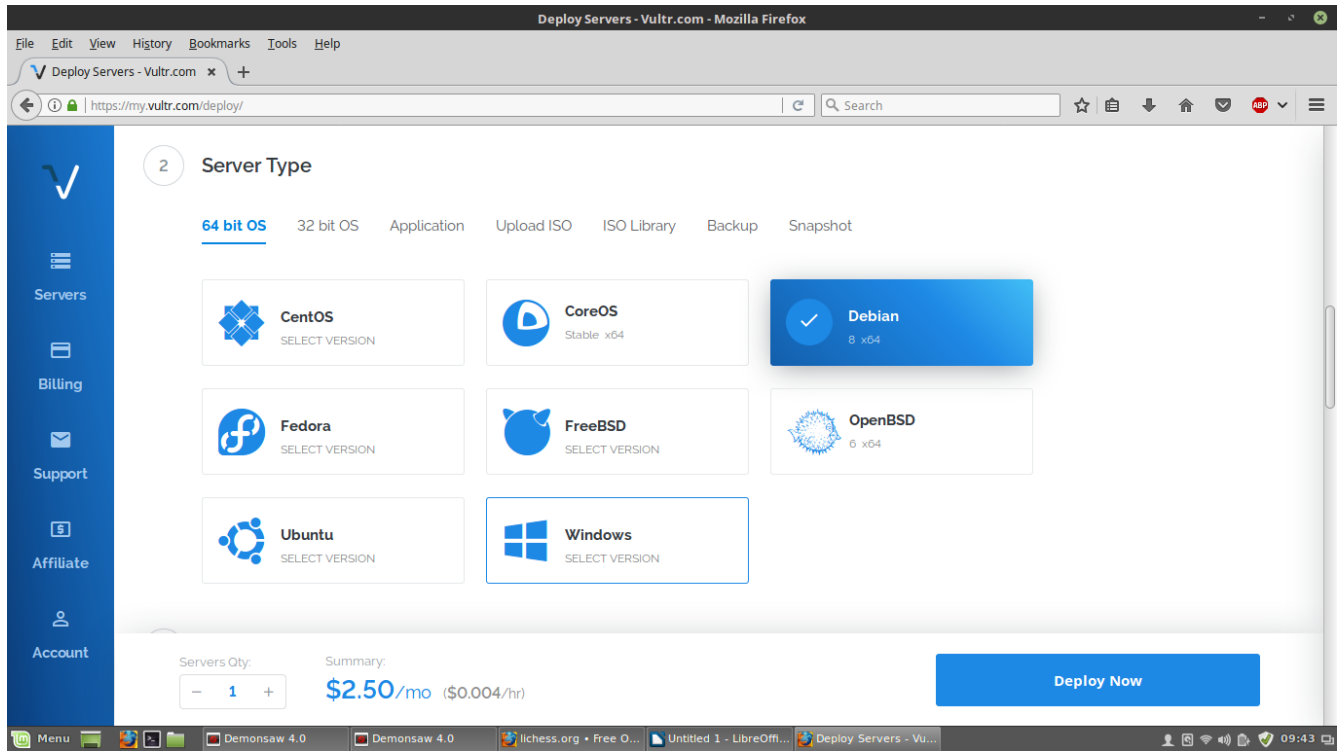
Once you created your account and added funds to it, you can launch a new instance. (They even accept bitcoin)

First, select a location for your server.



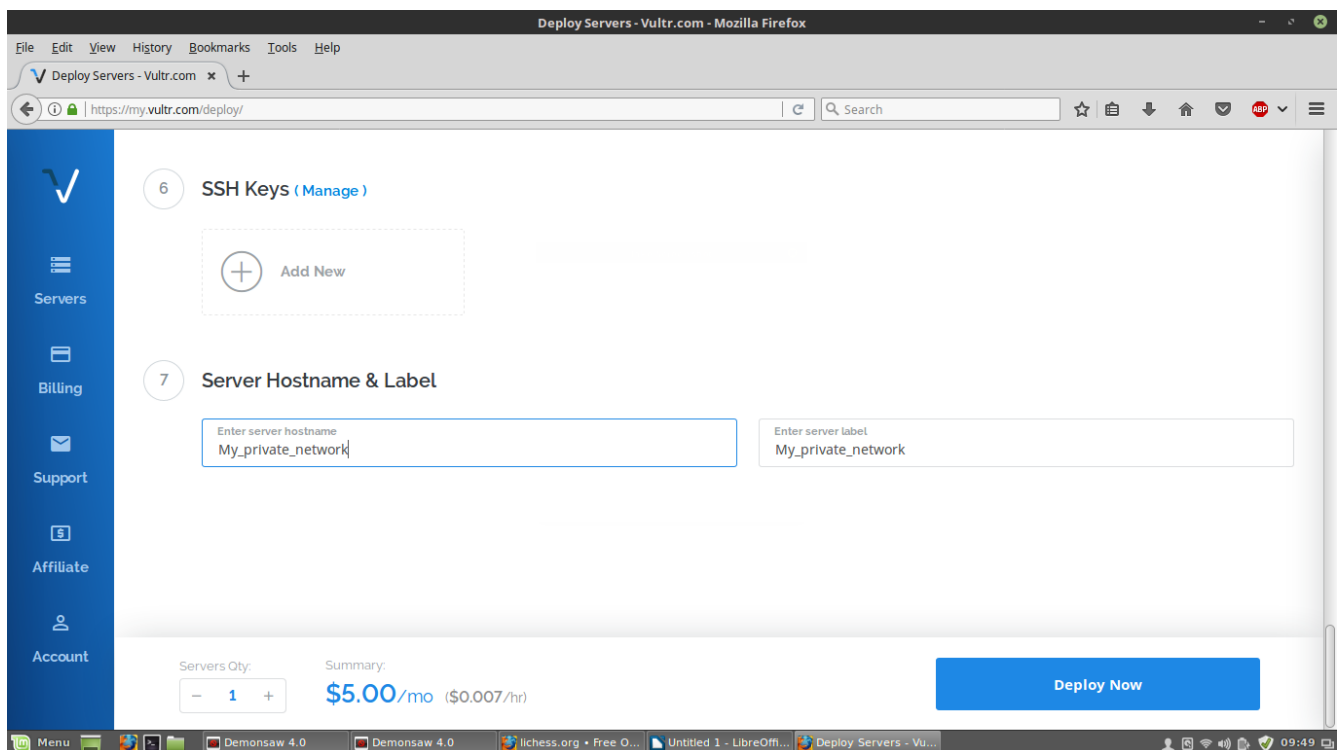
Most of them are located in the US but there are some in other countries as well.

Next, select the server type. I recommend Debian 8x64



Then select server size. I use the \$5/month package. Depending on how many people will use your network and how many files will be shared, you can adjust your package as needed.

Next, you choose a server name and label. It can be whatever you want.



Then, click on Deploy Now. It usually takes 5 to 10 minutes for a server to be ready for use.

When the server is ready, you will have your IP address. Your user name is root and a complex password is provided.

*Note: This tutorial was made using Linux. If you are using the Windows OS, you will need a little program called “Putty” (freeware).

Next, open terminal and type `su` (root)

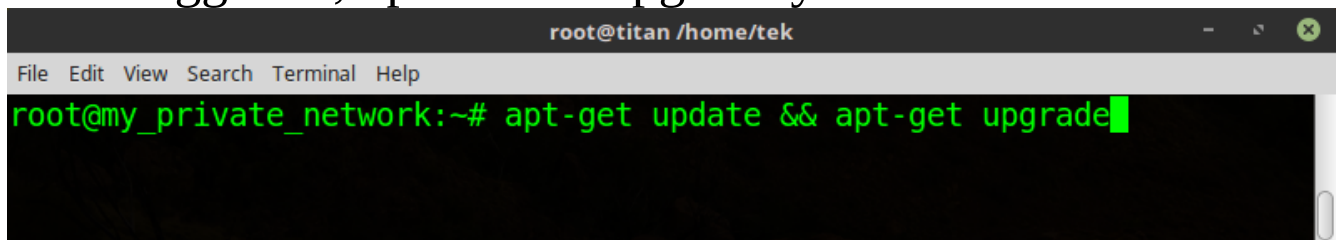
Type your OS password

Then type `ssh root@45.32.167.58`

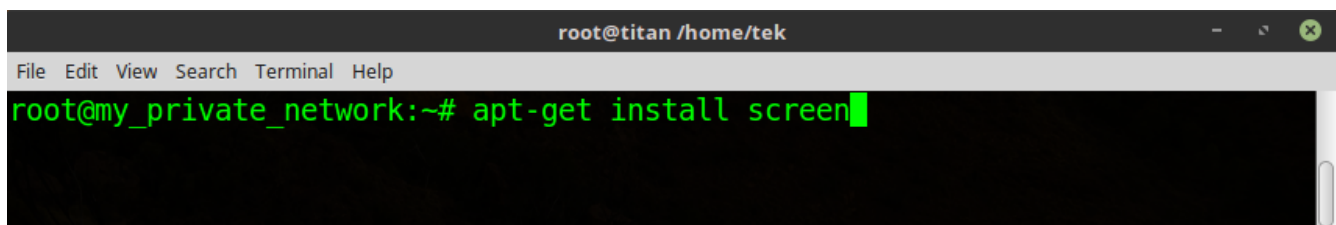
Type yes then copy server password to clipboard and paste.

You are now logged in your vultr server.

Once logged in, update and upgrade your server OS.

A terminal window titled "root@titan /home/tek" with a menu bar containing "File Edit View Search Terminal Help". The terminal prompt is "root@my_private_network:~#" and the command "apt-get update && apt-get upgrade" is entered in green text with a cursor at the end.

Next, install screen. This will allow you to exit terminal after you finish installing your router, without shutting down the server.

A terminal window titled "root@titan /home/tek" with a menu bar containing "File Edit View Search Terminal Help". The terminal prompt is "root@my_private_network:~#" and the command "apt-get install screen" is entered in green text with a cursor at the end.

Now, type `screen` in your terminal then hit enter twice.

Now, you need to install unzip.

```
root@titan /home/tek
File Edit View Search Terminal Help
root@my_private_network:~# apt-get install unzip
```

Next, we need to change the ssh port which by default is set at 22.

Type `nano /etc/ssh/sshd_config`

On the port number line, change the port number. Here's a good website to learn more about it.

http://www.linuxlookup.com/howto/change_default_ssh_port

```
root@titan /home/tek
File Edit View Search Terminal Help
GNU nano 2.2.6 File: /etc/ssh/sshd config Modified
# Package generated configuration file
# See the sshd_config(5) manpage for details

# What ports, IPs and protocols we listen for
Port 22
# Use these options to restrict which interfaces/protocols sshd will bind to
#ListenAddress ::
#ListenAddress 0.0.0.0
Protocol 2
# HostKeys for protocol version 2
HostKey /etc/ssh/ssh_host_rsa_key
HostKey /etc/ssh/ssh_host_dsa_key
[ Read 88 lines ]
^G Get Help ^O WriteOut ^R Read File ^Y Prev Page ^K Cut Text ^C Cur Pos
^X Exit ^J Justify ^W Where Is ^V Next Page ^U UnCut Text ^T To Spell
```

After changing the port number, press Ctrl + x then y then enter to save.

Now, we need to restart the ssh.

Type `/etc/init.d/ssh restart`

```
root@titan /home/tek
File Edit View Search Terminal Help
root@my_private_network:~# /etc/init.d/ssh restart
```

Now, we create a new directory for the Demonsaw router.

Type `mkdir Demonsaw`

Then go to that new folder: `cd Demonsaw`

Next, we need to get the Demonsaw router in that folder.

Type `wget`

https://www.demonsaw.com/download/4.0.0/haYGebuanAUwHn7yxGSxF7hE/demonsaw_router.zip

```
root@titan /home/tek
File Edit View Search Terminal Help
root@my_private_network:~/Demonsaw# wget https://www.demonsaw.com/download/4.0.0/haYGebuanAUwHn7yxGSxF7hE/demonsaw_router.zip
```

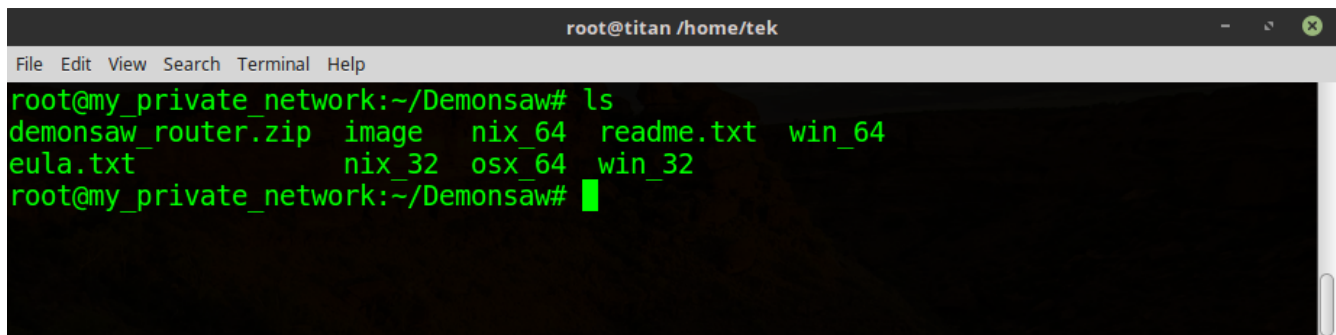
*Note: Make sure you get the link from the demonsaw website. It may change at any time.

Now, we need to unzip the file.

Type `unzip demonsaw_router.zip`

```
root@titan /home/tek
File Edit View Search Terminal Help
root@my_private_network:~/Demonsaw# unzip demonsaw_router.zip
```

Now, type `ls` to list the content of the folder.

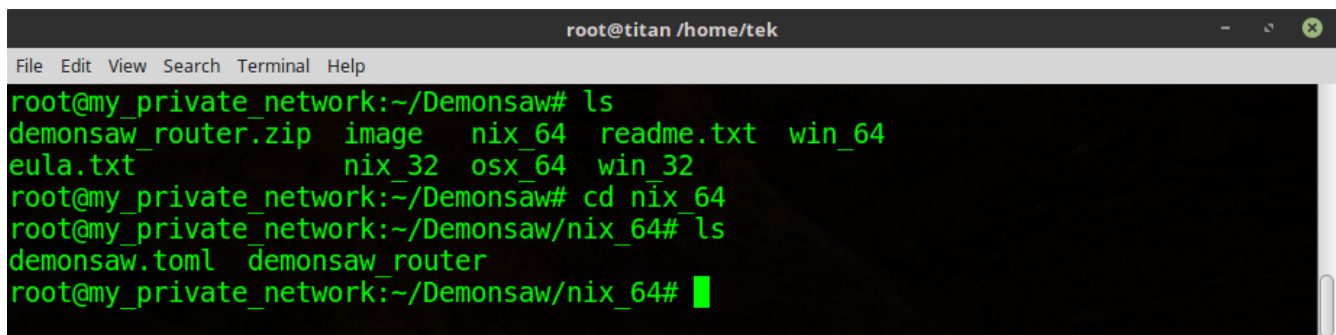


```
root@titan /home/tek
File Edit View Search Terminal Help
root@my_private_network:~/Demosaw# ls
demosaw_router.zip image nix_64 readme.txt win_64
eula.txt nix_32 osx_64 win_32
root@my_private_network:~/Demosaw#
```

You now need to navigate to the `nix_64` folder since your server is on Debian 8x64. Type `cd nix_64`

Then type `ls`

You now see the content of the folder.



```
root@titan /home/tek
File Edit View Search Terminal Help
root@my_private_network:~/Demosaw# ls
demosaw_router.zip image nix_64 readme.txt win_64
eula.txt nix_32 osx_64 win_32
root@my_private_network:~/Demosaw# cd nix_64
root@my_private_network:~/Demosaw/nix_64# ls
demosaw.toml demosaw_router
root@my_private_network:~/Demosaw/nix_64#
```

We now need to edit the router's toml file using the `nano` command. Type `nano demosaw.toml` and edit the file.

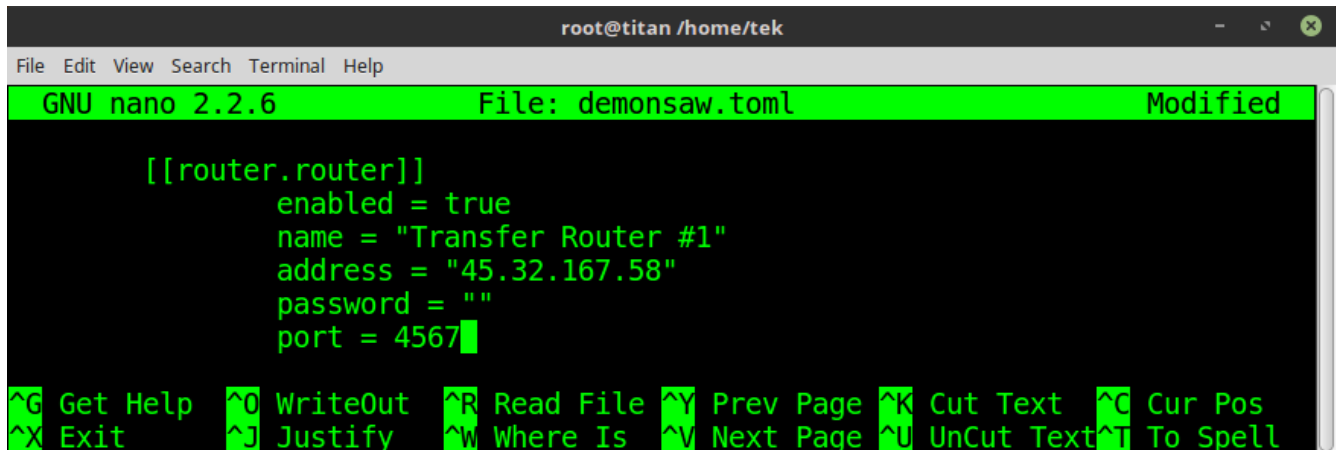
In the `[[router]]` section, copy the address of your vultr server and change the port number.

In the `[router.option]` section, change the welcome message to whatever message you want.

You can now edit the chat rooms (add as many as you want)

In the `[[router.router]]` section, enable the transfer router by changing from `false` to `true`.

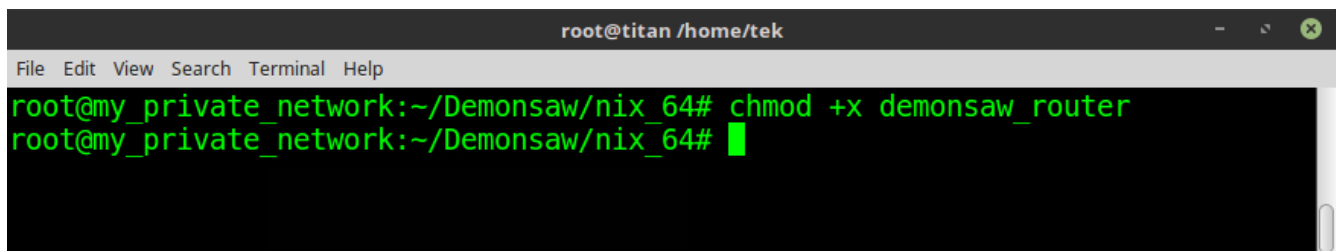
Use the same IP as your message router as well as the same port unless you want to use other IP's (different instances) for transfers.



```
root@titan /home/tek
File Edit View Search Terminal Help
GNU nano 2.2.6 File: demonsaw.toml Modified
[[router.router]]
  enabled = true
  name = "Transfer Router #1"
  address = "45.32.167.58"
  password = ""
  port = 4567
^G Get Help ^O WriteOut ^R Read File ^Y Prev Page ^K Cut Text ^C Cur Pos
^X Exit ^J Justify ^W Where Is ^V Next Page ^U UnCut Text ^T To Spell
```

When completed, hit `Ctrl +x` then `y` then the enter to save. Now, you need to make the `demonsaw_router` executable.

Type `chmod +x demonsaw_router`



```
root@titan /home/tek
File Edit View Search Terminal Help
root@my_private_network:~/Demonsaw/nix_64# chmod +x demonsaw_router
root@my_private_network:~/Demonsaw/nix_64#
```

Launch the server by typing `./demonsaw_router`

To exit the DS4 prompt, use `Ctrl + a` then `Ctrl + d`
This will allow the server to stay up and running.

The screen command you entered earlier allows for this. You can now exit terminal and test your new private network. If you want to make changes to your toml file, log back in to your server, make the changes then use the `screen -r` to get back to your DS4 prompt and restart server then press Ctrl + a then Ctrl + d to exit DS4 prompt.

Note: When logging back into your vultr server, remember to add new port number:

Example below

```
ssh root@45.32.167.58 -p 2222
```

~tek