CENTOS

**Getting on the Networking**

Adapter configuration files: /etc/sysconfig/network-scripts/

Open adapter in text editor: *vi networkInterfaceName*

(Another way we can do this is to type the command: *nmtui)*

Basic Configuration:



Afterwards, restart the network: *systemctl restart network*

You can also do: *ifdown interfaceName*

 *Ifup interfaceName*

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 **Configuring a router**

Configuring a router is very straight forward. First make sure you have two network interfaces with the command: *ip a*

As before, go to the router settings and configure your interfaces



Next, we need to enable ip forwarding as so: *vi /etc/sysctl.d/ip\_forward.conf*

(**Sorry for the \*typo\*,** it’s spell forward.conf)

Type this into the file and save.

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We must configure the firewall with the following command:

*firewall-cmd --permanent --direct --passthrough ipv4 -t nat -I POSTROUTING -o <dev name> -j MASQURADE -s 255.255.0.0/16*



Next, we must restart the services with the following two commands:

*Systemctl restart network*

*Systemctl restart firewalld*

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This command will show services running on the external interface

*firewall-cmd --list-all --zone=external*



This is how you add port forwarding to something like a webserver.

*Firewall-cmd --zone=external --add-forward-port=port=80:proto=tcp:toport=80:toaddr=172.1.1.2*



Also try:

 *firewall-cmd --zone=external --add-forward-port=port=80:proto=tcp:toport=80:toaddr=172.1.1.2 --permanent*