

Persistent Network Config in CentOS

| | |
|--------------------------------|------------------------------|
| nmcli | Network Manager command line |
| nmtui | network Manger graphical |
| nmcli connection up ens33 | Switch on ens33 interface |
| /etc/sysconfig/network-scripts | Config file |

Common Network Tools

| | |
|------|------------------|
| dig | Verify DNS relay |
| nmap | Scanning ports |

iptables Syntax

```
iptables {-A|I} chain [-i/o iface]
[-s/d ipaddr] [-p udp/tcp/icmp[--dport/sport nn...]] -j
[LOG|ACCEPT|DROP|REJECT]
-A|I: Append or Insert
-i/o: INPUT or OUTPUT chain
-s/d: source IP or destination IP
-p udp/tcp/icmp: protocol to use
--dport/sport nn: destination port or source port
-j LOG|ACCEPT|DROP|REJECT: Write line to syslog or Accept or Drop silently (external traffic) or reject non-silently (internal traffic)
```

Configuring Local time

| | |
|-------------------|---|
| hwclock | Display kernel hardware clock |
| hwclock --systohc | Synchronise system tim to hardware time |
| hwclock --hctosys | Synchronise hardware clock to system |
| timedatectl | Utility to config time |

NTPD and Chronyd

| | |
|---|---|
| vim /etc/ntp.conf | Config file; Server <i>server name</i> iburst |
| systemctl restart ntpd | Restart NTP service |
| ntpq -p | Show current time info |
| systemctl status chrony | Show current status of chrony |
| vim /etc/chrony.conf | Chrony config file |
| chronyc sources | Current time server status |
| chrony tracking | Current chrony tracking status |
| iptables -A INPUT -p udp --dport 123 -j ACCEPT | Allow traffic to time server |
| iptables -A OUTPUT -p udp --dport 123 -j ACCEPT | // |

IP Traffic Route

| | |
|---|------------------|
| route -n | IP routing table |
| ip route list | List of ip route |
| ip route add 8.8.0.0/16 proto static metric 10 via inet 10.9.185.143 dev eth0 | Add new IP route |
| ip route del 8.8.0.0/16 proto static metric 10 via inet 10.9.185.143 dev eth0 | Delete IP route |

Firewalld

| | |
|---|--|
| firewall-cmd --list-all | Show current firewall configuration |
| firewall-cmd --get-services | Show current services on Firewall |
| /usr/lib/firewalld/services | List of services config file |
| firewall-cmd --add-service samba --permanent | Add Samba service to Firewall persistently |
| firewall-cmd --add-port 4000-4005/tcp --permanent | Add port 4000-4005 on TCP persistently |

SSH

| | |
|--|---|
| vim /etc/ssh/sshd_config | Config file for SSH Daemon (SSH server) |
| vim /etc/ssh/ssh_config | Config file for SSH Client |
| systemctl status sshd | Current status of process |
| systemctl enable sshd | Start SSH at boot |
| ssh -X <i>user@ip</i> | SSH with graphical application |
| ssh-keygen | Generating public and private key |
| scp /etc/hosts 192.168.4.240:/tmp (vice versa) | Copy /etc/hosts over SSH to /tmp |
| rsync -avz /tmp <i>student@192.168.4.240</i> :/tmp | Rsync from host to remote |



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Config static network

```
vim /etc/network-scripts/ifcfg-eth0
BOOTPROTO=none
IPADDR=192.168.0.222
PREFIX=24
GATEWAY=192.168.0.1
DNS1=8.8.8.8
systemctl restart network
```

Hostname

| | |
|------------------------|---|
| vim /etc/hostname | Hostname config file |
| hostnamectl | Tool for setting hostname |
| vim /etc/hosts | Local resolving of hostname |
| vim /etc/resolv.conf | DNS config file |
| vim /etc/nsswitch.conf | Specify which config file to be processed |

Firewall using iptables

| | |
|---|--|
| systemctl stop firewalld | Stop Firewalld |
| iptables -L -v | List iptables policy verbosely |
| iptables -P INPUT(OUTPUT) DROP | Set INPUT(OUTPUT) to DROP |
| iptables -A INPUT -i lo -j ACCEPT | Allow incoming traffic to loopback interface |
| iptables -A OUTPUT -o lo -j ACCEPT | Allow outgoing traffic to loopback interface |
| iptables -A INPUT -p tcp --dport 22 -j ACCEPT | Allow packet through port on TCP going to system |

Firewall using iptables (cont)

| | |
|--|---|
| iptables -A OUTPUT -m state --state ESTABLISHED, RELATED -j ACCEPT | Allow all old to get out of system; doesn't all new traffic |
| iptables -A OUTPUT -p tcp --dport 22 -j ACCEPT | // |
| iptables -A INPUT -m state --state ESTABLISHED, RELATED -j ACCEPT | // |
| iptables -A OUTPUT -p tcp --dport 80 -j ACCEPT | Allow TCP traffic going out through port 80 |
| iptables -A OUTPUT -p udp --dport 53 -j ACCEPT | Allow traffic going out through DNS (port 53) |
| iptables-save > /etc/sysconfig/iptables | Save iptables to start automatically at boot |

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