



Network Configuration

```
$ ifconfig ▶ show network information
$ iwconfig ▶ show wireless information
# iwlist scan ▶ scan for wireless networks
# service NetworkManager restart ▶ restart NetworkManager
# ifup interface ▶ bring interface online
# ifdown interface ▶ disable interface
```

Firewall Configuration

```
# service iptables start/stop ▶ start or stop the firewall
# iptables -L ▶ show current config
# iptables -a INPUT -j ACCEPT/REJECT ▶ allow or reject all connections
# iptables -a INPUT --dport port -j ACCEPT/REJECT ▶ allow or reject connection to port
# iptables -F ▶ reset firewall config
```

See man *command* for more options

NETWORK



requires root permissions
\$ requires normal user permissions

```
su -c 'command' ▶ run command as root
su - ▶ open a root shell
su - user ▶ open a shell as user
passwd ▶ change your password
```

```
chown user:group file ▶ change owner:group of file
```

```
chgrp group file ▶ change group of file
chmod MODE file ▶ change file permissions
```

MODE:

```
n1(user)n2(group)n3(others)
4(read)2(write)1(execute)
e.g.: 755 read-write-execute for owner, read-execute for group and others.
```

See man *command* for more options

PERMISSIONS



FILES & DIRECTORIES

See man *command* for more options
* Use carefully, especially with the -f option.



```
cd directory ▶ change to directory
cd .. ▶ change to parent directory
cd - ▶ change to previous directory
pwd ▶ display current directory
ls ▶ list files in work directory
ls -a ▶ list all files (including hidden files)
cp file dest ▶ copy file to dest
cp -r directory dest ▶ copy directory to dest
mv source dest ▶ move/rename file/directory to dest
mkdir new-directory ▶ create new-directory
rm file ▶ remove file*
rm -r folder ▶ remove folder recursively*
ln -s file link ▶ create symbolic link of file
mount -t type device mount-point ▶ mount device
mount -o loop iso mount-point ▶ mount iso image /home/user or ~/your home directory
```

SYSTEM SERVICES

```
$ uname -r ▶ get kernel release
$ uname -a ▶ get system information
# service daemon start ▶ start daemon
# service daemon stop ▶ stop daemon
# service daemon restart ▶ restart daemon
$ service daemon status ▶ view daemon status
$ runlevel ▶ get current runlevel
# chkconfig --level 35 service on/off ▶ set service to run/not run in runlevels 3,5
```

DISPLAY

```
Ctrl+Alt+Bksp ▶ restart X display if frozen*
Ctrl+Alt+FN ▶ switch to tty N
Ctrl+Alt+F1 ▶ switch back to X display
# Xorg -configure ▶ create new config file
```

See man *command* for more options

SYSTEM AND DISPLAY



requires root permissions
\$ requires normal user permissions
* disabled by default

INSTALLING, REMOVING, UPDATING

```
# yum update ▶ update all packages
# yum install pkg ▶ install pkg
# yum remove pkg ▶ remove pkg
$ yum search pkg ▶ search pkg
$ yum provides */pkg ▶ check what provides pkg
$ yum info pkg ▶ get pkg information
$ yum history ▶ get installed packages history
$ rpm -q pkg ▶ get installed pkg version


FIXING YUM'S DATABASE



```
$ yum clean all ▶ clean the cache
$ yum makecache ▶ generate yum cache

FIXING THE RPM DATABASE


```
# rpm -vv --initdb
# rm -f /var/lib/rpm/__db*
# rpm -vv --rebuilddb
```


```


```

See man *command* for more options

PACKAGE MANAGEMENT



requires root permissions
\$ requires normal user permissions