user related info:

```

# cat /etc/passwd

hunt:x:1000:1000:,,,:/home/hunt:/bin/bash

Password info:

``

# cat /etc/shadow

hunt:Encrypted pass:Acc Age

SHA512 + Salt Algo

UID [0-60000] | GID [0-60000]

```````

0-999 Super user | 0-999 Super group

1000+ Regular user| 1000+ regular group

Group info:

``

# cat /etc/group

grp:x:GID

Group pass:

```

# cat /etc/gshadow

1) Add user:

```

# adduser username

check:

```

# id username

2) Password:

```

# passwd username

# passwd -d username

-d : delete

3) Login:

```

# su - username

# exit

OR

# logout

4) Delete user:`

```

a) without home dir

# userdel username

b) with home dir

# userdel -r username

-------------

1) Add group:

````

# groupadd groupname

2) Password:

```

# gpasswd groupname

3) Delete:

`

# groupdel groupname

Memberships:

```

a) Primary

add user as primary member of a group:

# groupadd grp

# useradd -g grp u1

-g: Primary membership

b) Secondary

i) add user as secondary member of a group:

# groupadd lol

# useradd -G lol pipi

-G: secondary member

ii) Add an existing user in a group as secondary member:

# usermod -G grp natasha

**Permissions:**

```

1) Symbolic Method

read : r

write : w

execute : x

user owner : u

group owner : g

others : o

All : a

Assign : +

Remove : -

Overwrite : =

**Permission Area:**

**````**

# ls -l

drwxr-xr-x 2 root root 6 Mar 22 17:47 kids

rwx r-x r-x

u g o

**Default perm for file:**

read & write : u

read : g

read : o

**Default perm for dir:**

````

read, write & execute : u

read & execute : g

read & execute : o

**File Type:**

`

Regular file [-]

Dir [d]

block [b]

char [c]

pipe OR Socket [p OR s]

link [l]

**Assign perm using Symbolic method:**

`````

# chmod u+xwr file/dir

# chmod u+w,u-x file/dir

# chmod u+rw,g=w,o-rwx file/dir

# chmod a=w file/dir

OR

# chmod ugo+rw file/dir

OR

# chmod +w file/dir

2) Numeric Method

``````

read : 4

write : 2

execute : 1

Full : 7

No : 0

--- 000 0

r-- 100 4

-w- 010 2

--x 001 1

rwx 111 7

# chmod 517 file/dir

ugo