

User group and Permissions in Linux

USER

★ Adding User

```
$ sudo adduser <User-name>
```

★ Delete User

```
$ sudo userdel <User-name>
```

/etc/passwd

→ User account, group account etc are stored in this text file.

★ Changing user passwd

```
$ sudo passwd <User-name>
```

Group

⇒ The only thing groups are really used for is to provide consistent permissions to collection of users.

★ Adding group

```
$ sudo addgroup <group-name>
```

★ Deleting group

```
$ sudo groupdel <group-name>
```

★ Adding user to group

```
$ sudo adduser <username> <group name>
```

★ Deleting user from a group

\$ sudo deluser <username> <groupname>

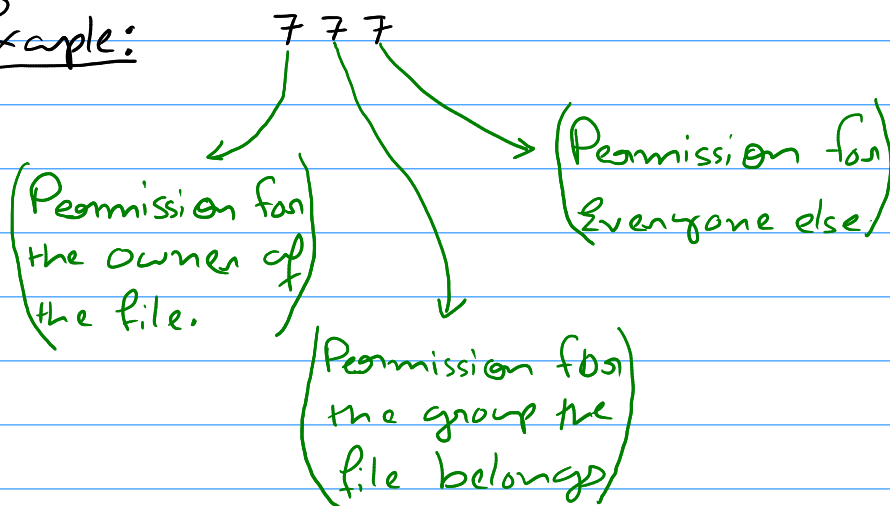
/etc/group

→ Contains all the information about the group.

Permissions

⇒ Permission of a file in Linux is given by 3 numbers.

Example:



4 ⇒ Read

2 ⇒ Write

1 ⇒ Execute

5

3

6

7

★ Giving permission to a file

\$ sudo chmod 777 <filename>

★ Giving permission to a folder

\$ sudo chmod 777 <foldername> -R

Ownership

* Changing User owner of the file/folder

```
$ sudo chown <username> <filename>
```

```
$ sudo chown -R <username> <foldername>
```

* Changing group permission of a file/folder

```
$ sudo chgrp <groupname> <filename>
```

```
$ sudo chgrp -R <groupname> <foldername>
```