

1. Creation of "Islam User"

1. sudo useradd -m islam -c "Islam Asker"
2. sudo passwd islam

2. Creation of "bad User"

1. sudo useradd -m baduser -c "Bad User"
2. sudo passwd baduser

3. Creation of group pgroup

- sudo groupadd -g 30000 pgroup

4. Creation of group badgroup

- sudo groupadd badgroup

5. add islam to pgroup

1. sudo usermod -aG pgroup islamm

6. modify islam password

1. sudo passwd islam

7. add time expiry date for password

1. sudo chage -M 30 islam

8. lock baduser acc

1. sudo usermod -L baduser

9. delete baduser

1. sudo userdel baduser

10. delete badgroup

1. sudo groupdel badgroup
-

13. mkdir , change owner permissions to read only

```
iti@iti:~$ mkdir myteam  
1. iti@iti:~$ chmod 400 myteam/
```

14. logout and login

1. sudo su - islam

15. try access myteam

```
iti@iti:~$ cd myteam  
1. bash: cd: myteam: Permission denied
```

16. manipulating the oldpassword file

```
iti@iti:~/Desktop$ chmod 631 oldpasswd
iti@iti:~/Desktop$ ls -l
total 0
-rw--wx--x 1 iti iti 0 Dec 21 14:34 oldpasswd
iti@iti:~/Desktop$ chmod u=rw,g=wx,o=x oldpasswd
1. iti@iti:~/Desktop$ ls -l
```

2. umask 035
3. 666 for a file , 777 for a folder
4. umask 777

```
islam@iti:~$ ls -l
total 4
d----- 2 islam islam 4096 Dec 21 15:05 noprem
----- 1 islam islam 0 Dec 21 15:05 nopremfile
5.
```

17. Minimum Permissions:

1. Copy directory
 1. source: read
 2. target: write
2. Copy file
 1. Source: read
 2. target: write
3. delete a file: write
4. cd: execute
5. ls: execute
6. cat: read
7. modify file: read,write

```
islam@iti:~$ touch opfile
islam@iti:~$ chmod 444 opfile
islam@iti:~$ rm opfile
rm: remove write-protected regular empty file 'opfile'? y
```

18.

19. the file allows execution while the folder is allowing you to enter the folder and ls the contents inside it