

LAB2

1. Create a user account with the following attribute

- username: islam
- Fullname/comment: Islam Askar
- Password: islam

```
mariam@mariam-Latitude-E6430:~$ sudo useradd -c "islam Asker" -md /home/islam is
lamAskar
```

```
mariam@mariam-Latitude-E6430:~$ sudo passwd islamAsker
New password:
BAD PASSWORD: The password is a palindrome
Retype new password:
passwd: password updated successfully
```

2. Create a user account with the following attribute

- Username: baduser
- Full name/comment: Bad User
- Password: baduser

```
mariam@mariam-Latitude-E6430:~$ sudo useradd -c "bad user" -md /home/baduser bad
user
mariam@mariam-Latitude-E6430:~$ sudo passwd baduser
New password:
BAD PASSWORD: The password is a palindrome
Retype new password:
passwd: password updated successfully
mariam@mariam-Latitude-E6430:~$
```

3. Create a supplementary (Secondary) group called pgroup with group ID of 30000

```
mariam@mariam-Latitude-E6430:~$ sudo groupadd -g 30000 pgroup
groupadd: group 'pgroup' already exists
```

4. Create a supplementary group called badgroup

```
mariam@mariam-Latitude-E6430:~$ sudo groupadd badgroup
mariam@mariam-Latitude-E6430:~$
```

5. Add islam user to the pgroup group as a supplementary group

```
mariam@mariam-Latitude-E6430:~$ sudo gpasswd -a islamAsker pgroup
Adding user islamAsker to group pgroup
mariam@mariam-Latitude-E6430:~$
```

6. Modify the password of islam's account to *password*

```
mariam@mariam-Latitude-E6430:~$ sudo passwd islamAsker
New password:
BAD PASSWORD: The password is a palindrome
Retype new password:
passwd: password updated successfully
mariam@mariam-Latitude-E6430:~$
```

7. Modify islam's account so the password expires after 30 days

```
mariam@mariam-Latitude-E6430:~$ sudo chage -M 30 islamAsker
mariam@mariam-Latitude-E6430:~$
```

8. Lock bad user account so he can't log in

```
mariam@mariam-Latitude-E6430:~$ sudo usermod -L baduser
mariam@mariam-Latitude-E6430:~$
```

9. Delete bad user account

```
userdel: user islamAsker is currently used by process 51850
mariam@mariam-Latitude-E6430:~$ sudo userdel baduser
mariam@mariam-Latitude-E6430:~$
```

10. Delete the supplementary group called badgroup.

```
sudo: groupdel: command not found
mariam@mariam-Latitude-E6430:~$ sudo groupdel badgroup
mariam@mariam-Latitude-E6430:~$
```

13. Create a folder called myteam in your home directory and change its permissions to read only for the owner.

```

mariam@mariam-Latitude-E6430:~$ chmod u=r myteam
mariam@mariam-Latitude-E6430:~$ sudo ls -l myteam
total 0
mariam@mariam-Latitude-E6430:~$ ls -l myteam
total 0
mariam@mariam-Latitude-E6430:~$ ls -l
total 15892
drwxr-xr-x 2 mariam mariam 4096 18:12 29 ڈیسک Desktop
drwxr-xr-x 3 mariam mariam 4096 09:44 22 ڈیمن Documents
drwxr-xr-x 4 mariam mariam 4096 14:28 31 ڈیمن Downloads
-rw-rw-r-- 1 mariam mariam 133 23:46 30 ڈیمن error
-rw-rw-r-- 1 mariam mariam 6 18:35 21 ڈیمن file1
-rw-rw-r-- 1 mariam mariam 27 18:25 28 ڈیمن file1.txt
-rw-rw-r-- 1 mariam mariam 27 18:35 28 ڈیمن file2.txt
-rwxrwxr-x 1 mariam mariam 16 17:15 28 ڈیمن greeting.sh
-rw-r--r-- 1 mariam mariam 465997 21:07 30 ڈیمن hell
drwxr-xr-x 2 mariam mariam 4096 18:33 20 ڈیمن Music
-rwxrwxr-x 1 mariam mariam 221 23:20 28 ڈیمن mycd.sh
-rwxrwxr-x 1 mariam mariam 25 18:52 28 ڈیمن mycp.sh
-rw-rw-r-- 1 mariam mariam 71 21:01 30 ڈیمن mycv.txt
drwxrwxr-x 2 mariam mariam 4096 18:52 28 ڈیمن mydir
-rwxrwxr-x 1 mariam mariam 124 11:02 31 ڈیمن myinfo.sh
dr---wx--x 2 mariam mariam 4096 14:52 31 ڈیمن myteam
-rwxrwxr-x 1 mariam mariam 252 10:59 31 ڈیمن mytest.sh

```

14. Log out and log in by another user

```

mariam@mariam-Latitude-E6430:~$ su islamAsker
Password:
$

```

15. Try to access (by cd command) the folder (myteam)

```

$ cd myteam
sh: 1: cd: can't cd to myteam
$

```

16. Using the command Line

- Change the permissions of oldpasswd file to give owner read and write permissions and for group write and execute and execute only for the others (using chmod in 2 different ways)

```

mariam@mariam-Latitude-E6430:~$ sudo chmod u=rw,g=wx,o=x oldpasswd
mariam@mariam-Latitude-E6430:~$ ls -l oldpasswd
-rw--wx--x 1 mariam mariam 0 14:59 31 ڈیمن oldpasswd
mariam@mariam-Latitude-E6430:~$

```

```

mariam@mariam-Latitude-E6430:~$ sudo chmod 631 oldpasswd
mariam@mariam-Latitude-E6430:~$

```

- Change your default permissions to be as above.

```
maria@mariam-Latitude-E6430:~$ umask 146
maria@mariam-Latitude-E6430:~$
```

- What is the maximum permission a file can have, by default when it is just created? And what is that for directory.

File => read and write => 6

Dir => read write execute =>

- Change your default permissions to be no permission to everyone then create a directory and a file to verify.

```
maria@mariam-Latitude-E6430:~$ umask 777
maria@mariam-Latitude-E6430:~$ mkdir test
maria@mariam-Latitude-E6430:~$ cd test
bash: cd: test: Permission denied
maria@mariam-Latitude-E6430:~$ touch test
maria@mariam-Latitude-E6430:~$ cat touch
cat: touch: No such file or directory
maria@mariam-Latitude-E6430:~$
```

17. What are the minimum permission needed for:

- Copy a directory (permission for source directory and permissions for target parent directory)

source directory => Read Execute =>5

Target => write and execute =>3

- Copy a file (permission for source file and and permission for target parent directory)

Souce file => read =>4

Target => write and execute

- Delete a file

Write 2

- Change to a directory

Execute 1

- List a directory content (ls command)

Execute and read => 5

- View a file content (more/cat command)

Read 4

- Modify a file content

write=> 2

18. Create a file with permission 444. Try to edit in it and to remove it? Note what happened.

```
mariam@mariam-Latitude-E6430:~$ sudo chmod 444 testing1
mariam@mariam-Latitude-E6430:~$ sudo ls -l testing
ls: cannot access 'testing': No such file or directory
mariam@mariam-Latitude-E6430:~$ sudo ls -l testing1
-r--r--r-- 1 mariam mariam 0 15:12 31 سب testing1
mariam@mariam-Latitude-E6430:~$
```

19. What is the difference between the “x” permission for a file and for a directory?

X file-> script

X dir -> open a folder