Hoda Magdy Mahmoud Elsayed the rest of lab 2

13. Create a folder called myteam in your home directory

and change its permissions to read only for the owner.

```
hoda@hoda-virtual-machine:~$ su - islam
Password:
islam@hoda-virtual-machine:~$ logout
hoda@hoda-virtual-machine:~$
```

14. Log out and log in by another user

```
hoda@hoda-virtual-machine:~$ cd ~/myteam
bash: cd: /home/hoda/myteam: Permission denied
hoda@hoda-virtual-machine:~$
```

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

```
hoda@hoda-virtual-machine:-$ touch oldpasswd
hoda@hoda-virtual-machine: $ ls -l oldpasswd
-rw-rw-r-- 1 hoda hoda 0 06:47 17 سس oldpasswd
hoda@hoda-virtual-machine:-$ chmod u=rw,g=wx,o=x oldpasswd
hoda@hoda-virtual-machine: S ls -1
Desktop دس 11 05:57 drwxr-xr-x 2 hoda hoda 4096 مرس
drwxrwxr-x 2 hoda hoda 4096 10:15 11 سیں dtr1
Documents سین 11 05:57 drwxr-xr-x 2 hoda hoda 4096
Downloads دس 11 06:57 drwxr-xr-x 2 hoda hoda 4096
drwxr-xr-x 2 hoda hoda 4096 06:57 11 سبن Mustc
دس dr-x----- 2 hoda hoda 4096 06:09 17
                          O 06:47 17 میں oldpasswd
-rw--wx--x 1 hoda hoda
etures میں 11 07:57 drwxr-xr-x ومیں 14 drwxr-xr-x
السن Public دسن Public میں Public
drwx----- 3 hoda hoda 4096 06:58 11 سر snap
drwxr-xr-x 2 hoda hoda 4096 06:57 11 سر Templates
Videos نیس Videos میں Videos میں Videos
hoda@hoda-virtual-machine: $
```

```
hoda@hoda-virtual-machine:~$ chmod 631 oldpasswd
hoda@hoda-virtual-machine:~$ ls -l oldpasswd
-rw--wx--x 1 hoda hoda 0 06:47 17 مير oldpasswd
hoda@hoda-virtual-machine:~$
```

Change your default permissions to be as above

```
hoda@hoda-virtual-machine:-$ umask 146
hoda@hoda-virtual-machine:-$ touch filetest; mkdir dirtest
hoda@hoda-virtual-machine:-$ ls -ld filetest dirtest/
drw--wx--x 2 hoda hoda 4096 07:09 17 مس dirtest/
-rw--w--- 1 hoda hoda 0 07:09 17 مس filetest
hoda@hoda-virtual-machine:-$
```

- What is the maximum permission a file can have, by default when it is just created? And what is that for directory.
 - 1. For files:666(rw-.rw-.rw-)
 - 2. For directory: 777 (rwx.rwx.rwx)

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

```
hoda@hoda-virtual-machine:-$ umask 777
hoda@hoda-virtual-machine:-$ touch filev ; mkdir dirv
hoda@hoda-virtual-machine:-$ ls -ld filev dirv/
d------ 2 hoda hoda 4096 07:21 17 سين filev
------ 1 hoda hoda 0 07:21 17 سين filev
hoda@hoda-virtual-machine:-$
```

- 17. What are the minimum permission needed for:
- Copy a directory (permission for source directory and permissions for target parent directory)

Source directory: {r} read permission is required target parent directory: {w} write permission is needed

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

Source directory: {r} read permission is required target parent directory: {w} write permission is needed

• Delete a file

File: {w} write permission is needed for file itself

directory containing the file : {w} write permission is needed for the parent directory

• Change to a directory

Directory: {x} execute permission is required for the directory

• List a directory content (ls command)

Directory: {r} read permission is required for the directory

• View a file content (more/cat command)

Directory: {r} read permission is required for the file

Modify a file content

File: {w} write permission is needed for file

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

```
hoda@hoda-virtual-machine:-$ touch myfile
hoda@hoda-virtual-machine:-$ chmod 444 myfile
hoda@hoda-virtual-machine:-$ ls -ld myfile
-r--r--- 1 hoda hoda 0 12:17 17 سر
```

read permission only, but no write or execute permission

19. What is the difference between the "x" permission for a file and for a directory

For a file: the "x" (execute) permission allows the file to be executed as a program or script. If a user has execute permission on a file, they can run the file as a command in the terminal.

For a directory: the "x" (execute) permission on a directory is necessary to access the contents of the directory. Without execute permission, even if a user has read permission for a directory, they won't be able to list its contents or access files within it.