

Lab 2 RHSA part two

- 13- Create a folder called myteam in your home directory and change its permissions to read only for the owner. **chmod 400 myteam**

```
eslam@eslam:~$ mkdir myteam
eslam@eslam:~$ chmod 700 myteam
eslam@eslam:~$ chmod 400 myteam
eslam@eslam:~$
```

- 14- Log out and log in by another user **su username**

exit then su islam

```
eslam@eslam:~$ su islam
Password:
$ whoami
islam
$
```

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

```
eslam@eslam:~$ cd myteam
bash: cd: myteam: Permission denied
eslam@eslam:~$
```

16- Using the command Line

- 1- 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)

```
eslam@eslam:~$ touch newpasswd; chmod 777 newpasswd
eslam@eslam:~$ chmod 631 oldpasswd
eslam@eslam:~$
```

other way

```
eslam@eslam:~$ umask 777
eslam@eslam:~$ touch oldpasswd; chmod u+rw, g+rx, o+x oldpasswd
chmod: invalid mode: 'u+rw,'
Try 'chmod --help' for more information.
eslam@eslam:~$ chmod u+rw,g+rx,o+x oldpasswd
eslam@eslam:~$
```

- Change your default permissions to be as above.

```
eslam@eslam:~$ umask 0126
eslam@eslam:~$
```

What is the maximum permission a file can have, by default when it is just

```
express0002
eslam@eslam:~$ umask 0000
```

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

```
eslam@eslam:~$ umask 7777
eslam@eslam:~$
```

mkdir perms; touch permsfile

```
d----- 2 eslam eslam 4096 16:51 18 مار perms
----- 1 eslam eslam 0 16:51 18 مار permsfile
```

17- What are the minimum permission needed for:

- Copy a directory (permission for source directory and permissions for target parent directory) **read and execute for source ----- write and execute for destination**
- Copy a file (permission for source file and and permission for target parent directory) **read for source ----- write and execute for destination**
- Delete a file **no permit required**
- Change to a directory **execute permission**
- List a directory content (ls command) **read and execute**
- View a file content (more/cat command) **read permission**
- Modify a file content. **Write permission**

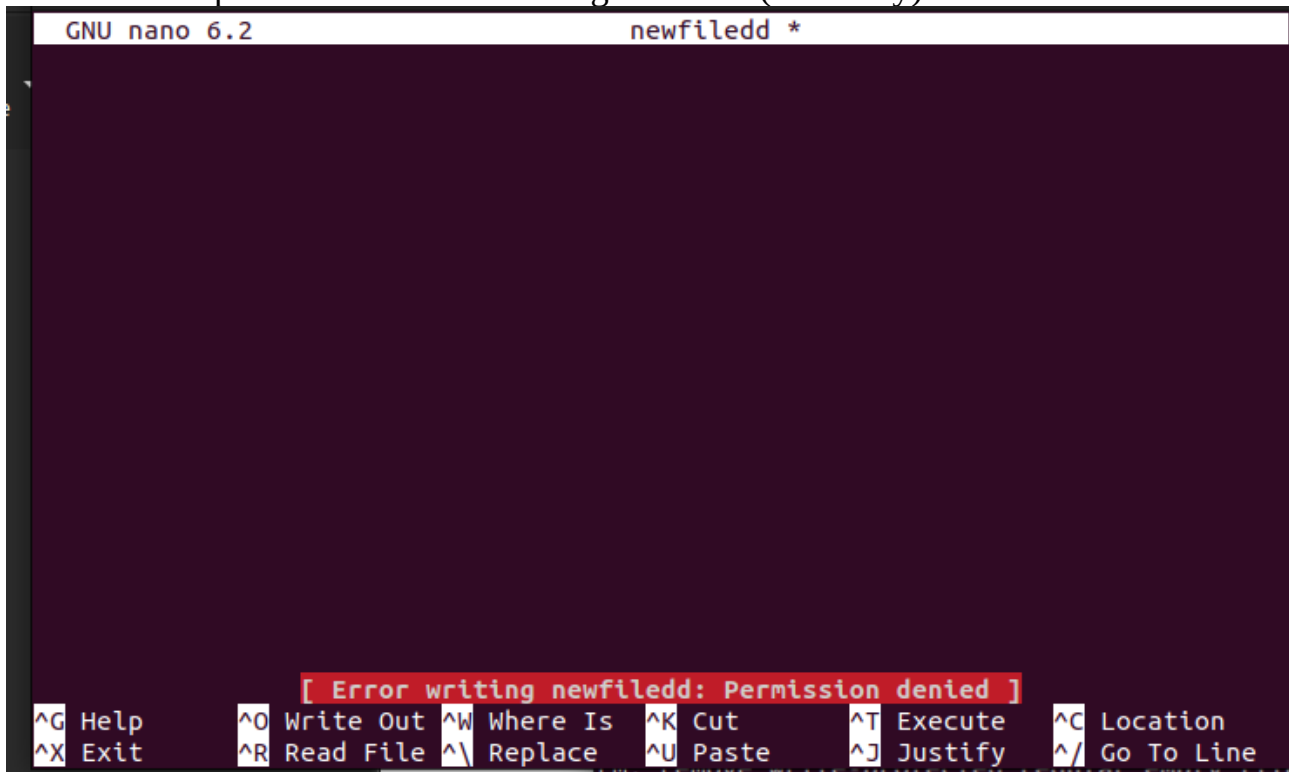
18. Create a file with permission 444. Try to edit in it and to remove it? Note what happened.

```
eslam@eslam:~$ touch newfiledd ; chmod 444 newfiledd
eslam@eslam:~$ rm newfiledd
rm: remove write-protected regular empty file 'newfiledd'? y
eslam@eslam:~$
```

When trying to edit

```
eslam@eslam:~$ touch newfiledd; chmod 444 newfiledd  
eslam@eslam:~$ nano newfiledd
```

found that no permission to edit --- we give it 444 (read only) so we can't edit

A screenshot of the GNU nano 6.2 text editor. The title bar at the top shows "GNU nano 6.2" on the left and "newfiledd *" on the right. The main editing area is empty. At the bottom, a red error message is displayed: "[Error writing newfiledd: Permission denied]". Below the error message is a standard nano editor footer containing various keyboard shortcuts and their functions, such as ^G Help, ^O Write Out, ^W Where Is, ^K Cut, ^T Execute, ^C Location, ^X Exit, ^R Read File, ^\ Replace, ^U Paste, ^J Justify, and ^_ Go To Line.

```
GNU nano 6.2 newfiledd *  
  
[ Error writing newfiledd: Permission denied ]  
^G Help    ^O Write Out ^W Where Is ^K Cut      ^T Execute  ^C Location  
^X Exit    ^R Read File ^\ Replace  ^U Paste    ^J Justify  ^_ Go To Line
```

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

In directory permission x => allows owner to use cd (change directory) to see its contents (files and dirs inside this directory)

in files permission x => Only to Execute the code inside it