**Linux\_AI\_Lab3\_Ahmed Abd-Elsalam Muhammed Afify**

# **Report about what I have experienced in this assignment:**

1. **To create a directory and set read only permission for owner:**

**[ahmed@localhost ~]$ mkdir -m 400 myteam**

**Output:**

**dr--------. 2 ahmed ahmed 6 May 7 10:04 myteam**

1. **Changing the user:**

**[ahmed@localhost ~]$ sudo su islam**

1. **Trying to access the folder:**

**[islam@localhost ahmed]$ cd myteam**

**Output:**

**bash: cd: myteam: Permission denied**

2. **Changing directory permissions:**

**[ahmed@localhost ~]$ chmod u+w,g+wx,o+x myteam**

**Output:**

**drw--wx--x. 2 ahmed ahmed 6 May 7 10:04 myteam**

**second way:**

**[ahmed@localhost ~]$ chmod 631 myteam**

**Output:**

**drw--wx--x. 2 ahmed ahmed 6 May 7 10:04 myteam**

1. **To change the default permissions:**

**[ahmed@localhost ~]$ umask 631**

1. **The max permission:**
   * File: (666)
   * Directory: (777)

**They are reached by using:** **[ahmed@localhost ~]$ umask 000**

1. **Execute:**

* **Folder**: Actually enter that folder but not be able to read its contents, see what files are located there.
* **File**: if it's script like (index.exe) run it to get data from it

1. **Write:**

* **Folder**: Edit folders data, delete or create new files/folders inside it and etc.
* **File**: ability to change its data.

1. **Read:**

* **Folder**: be able to read folder contents
* **File**: if it's text file like index.html or index.php be able to read it.



* source directory: execute permission.

target directory: execute and write permission.

* source directory: execute and read permission.

source file: read permission.

target directory: execute and write permission.

* Delete a file: read permission.
* cd directory: execute permission
* list directory: execute and read permission.
* View file content: read permission.
* Modify file content: write permission.

1. **We created the file using:**

**[ahmed@localhost ~]$ touch myfil.txt**

**[ahmed@localhost ~]$ chmod 444 myfile.txt**

**When trying to delete it:**

**[ahmed@localhost ~]$ rm myfile.txt**

**rm: remove write-protected regular empty file ‘myfile.txt’? y**

**🡺** Shows me a message telling me that it has a read only permission so I had to be sure deleting it.

**When Trying to write in it:**

**[ahmed@localhost ~]$ cat oldpassword >> myfile.txt**

**bash: myfile.txt: Permission denied**

It tells me that I have no permission to write In this file.

1. **Permission of / directory recursively:**

**[ahmed@localhost ~]$ namei -l /**

**Output:**

**f: /**

**dr-xr-xr-x root root /**

**drwxrwxr-x. 2 ahmed ahmed 6 May 7 12:15 myclass**

Owner: ahmed

Group: ahmed

1. **Changing the primary group for islam to be pgroup:**

**[ahmed@localhost ~]$ sudo usermod -g pgroup islam**

**[ahmed@localhost ~]$ getent passwd | grep ^is**

**islam:x:1001:30000::/home/islam:/bin/bash**

1. **We can change the file owner by:**

**[ahmed@localhost ~]$ chgrp pgroup myclass**

**[ahmed@localhost ~]$ ls -ld myclass**

**drwxrwxr-x. 2 ahmed pgroup 6 May 7 12:15 myclass**

**or using:**

**[ahmed@localhost ~]$ chmod :pgroup myclass**

**🡺 but both of these methods only change the directory group owner not the user owner, so it still the same.**

**I don’t know if this is right or not but I tried many things to make the owner of the file changes when changing the group owing the file.**