

Linux_AI_Lab4_Ahmed Abd-Elsalam Muhammed Afify

Report about what I have experienced in this assignment:

1) *Creating group and users:*

- [ahmed@localhost ~]\$ groupadd ateam
- [ahmed@localhost ~]\$ sudo useradd -p\$(openssl passwd iti1) andy -g ateam
- [ahmed@localhost ~]\$ sudo useradd -p\$(openssl passwd iti1) alice -g ateam

2) *Creating directory:*

```
[ahmed@localhost home]$ sudo mkdir ateam-text
```

3) *Changing group ownership:*

```
[ahmed@localhost home]$ sudo chown :ateam ateam-text
```

```
[ahmed@localhost home]$ ls -ld ateam-text
```

```
drwxr-xr-x. 2 root ateam 6 May  8 09:51 ateam-text
```

The group has the ability to create or delete files in the directory; it has (write) permission.

4) *The apermissions*

```
[ahmed@localhost home]$ sudo chmod g+w ateam-text
```

```
[sudo] password for ahmed:
```

```
[ahmed@localhost home]$ ls -ld ateam-text
```

```
drwxrwxr-x. 2 root ateam 6 May  8 09:51 ateam-text
```

5) *To ensure that others can't enter the directory or to read or write to it:*

```
[ahmed@localhost home]$ sudo chmod o= ateam-text
```

```
[ahmed@localhost home]$ ls -ld ateam-text
```

```
drwxr-x---. 2 root ateam 6 May  8 09:51 ateam-text
```

Then others has no permissions to this directory.

6) *Switching user to andy;*

```
[ahmed@localhost home]$ su andy
```

```
Password:
```

```
[andy@localhost home]$ cd /home/ateam-text
```

```
[andy@localhost ateam-text]$
```

7) *Creating a directory:*

```
[andy@localhost ateam-text]$ touch andyfile  
[andy@localhost ateam-text]$ ls -ld andyfile  
-rw-r--r--. 1 andy ateam 0 May  8 10:57 andyfile
```

8) *The group ownership:*

```
[andy@localhost ~]$ ls -ld andyfile  
-rw-r--r--. 1 andy ateam 0 May  8 09:20 andyfile
```

9) *Switching to alice:*

```
[andy@localhost ateam-text]$ su alice  
Password:  
[alice@localhost ateam-text]$
```

10) *The alice's privileges on the andyfile:*

```
[alice@localhost ateam-text]$ ls -ld andyfile  
-rw-r--r--. 1 andy ateam 0 May  8 10:57 andyfile  
Alice has a read/write privileges on the andyfile so he can access and modify andyfile.
```

11) *Switch user to ahmed:*

```
[alice@localhost ateam-text]$ su ahmed  
Password:  
[ahmed@localhost ateam-text]$ cd ~  
[ahmed@localhost ~]$
```

To run top utility:

```
[ahmed@localhost ~]$ top
```

12) *To display memory use:*

M

13) *The process with largest memory allocation is:*

```
2422 ahmed  20  0 3897960 211516 64072 S  6.6 11.4  3:51.84  
➔ Process with (PID = 2422)
```

14) *Changing refresh top utility:*

- *First by* ➔ hitting (s) then (4)
- *Second way* ➔ hitting (d) then (4)

15) *To state the configuration:* hitting (w)

Exit the top by hitting (q)

16) *To make the command and sending it to the background;*

```
[ahmed@localhost ~]$ sleep 300&
```

```
[1] 10506
```

The (PID = 10506) and the number in terminal = [1]

17) *The ps l command gave me:*

```
0 1000 10506 10193 20 0 108052 356 hrtime S pts/0 0:00 sleep 300
```

So the nice value: (NI = 0)

To change the priority:

```
[ahmed@localhost ~]$ renice 19 10506
```

10506 (process ID) old priority 0, new priority 19

18) *Bring the process back:*

```
[ahmed@localhost ~]$ fg
```

```
sleep 300
```

or:

```
[ahmed@localhost ~]$ fg 1
```

```
sleep 300
```

or:

```
[ahmed@localhost ~]$ fg %1
```

```
sleep 300
```

19) *To kill the process:*

```
[ahmed@localhost ~]$ sleep 300&
```

```
[1] 11553
```

```
[ahmed@localhost ~]$ kill -9 11553
```

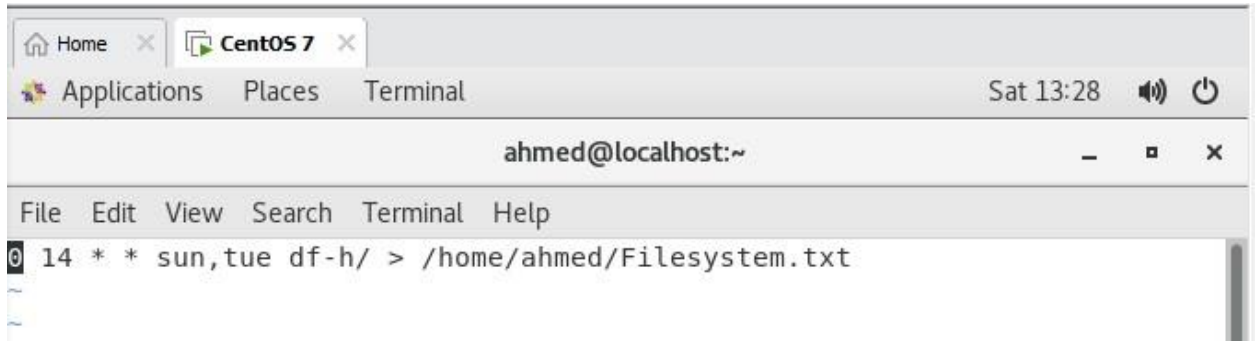
```
[1]+  Killed          sleep 300
```

```
[ahmed@localhost ~]$ top
```

Then I hitted (k) and entered the (PID = 11553) and it told me that there is no such a process.

20) Scheduled job:

[ahmed@localhost ~]\$ crontab -e



crontab: installing new crontab