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**

1. **Creating directory:**

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

1. **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.**

1. **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**

1. **To ensure that others can’t enter the directory or to read or wirite 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.**

1. **Switching user to andy;**

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

**Password:**

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

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

1. **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**

1. **The grou ownership:**

**[andy@localhost ~]$ ls -ld andyfile**

**-rw-r--r--. 1 andy ateam 0 May 8 09:20 andyfile**

1. **Switching to alice:**

**[andy@localhost ateam-text]$ su alice**

**Password:**

**[alice@localhost ateam-text]$**

1. **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.**

1. **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**

1. **To display memory use:**

**M**

1. **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)**

1. **Changing refresh top utility:**

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

1. **To state the configuration**: hitting **(w)**

Exit the top by hitting **(q)**

1. **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]**

1. **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**

1. **Bring the process back:**

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

**sleep 300**

**or:**

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

**sleep 300**

**or:**

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

**sleep 300**

1. **To kill the process:**

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

**[1] 11553**

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

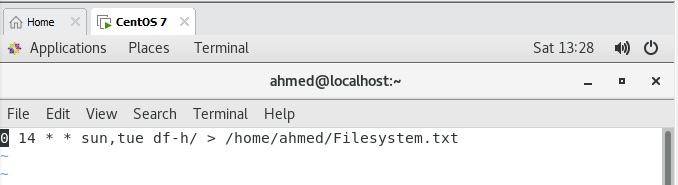
**[1]+ Killed sleep 300**

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

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

1. **Scheduled job:**

**[ahmed@localhost ~]$ crontab -e**

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**crontab: installing new crontab**