

- Creating users

```
sudo useradd itius1
```

```
sudo user add itius2
```

- Creating group

```
sudo groupadd os_team
```

- Creating directory

```
mkdir os_team_workspace
```

- Assign group to directory

```
sudo chgrp os_team os_team_workspace
```

```
chmod g+s os_team_workspace
```

- Add users itius1 and itius2 to os_team group

```
sudo usermod -G os_team itius1
```

```
sudo usermod -G os_team itius2
```

- Create directory mydir1 using itius1 and mydir2 using itius2 list directory permissions and send screenshot.

```
sudo login itius1
```

```
mkdir mydir1 ls -lg
```

```
sudo login itius2
```

```
mkdir mydir2 ls -ld
```

```
itluser1@ahmed-VirtualBox: ~  
drwxrwsr-x 2 ahmed os_team 4096 21:01 20 فير os_team_workspace  
drwxr-xr-x 3 ahmed ahmed 4096 14:35 1 فير Pictures  
drwxr-xr-x 2 ahmed ahmed 4096 14:17 1 فير Public  
drwx----- 5 ahmed ahmed 4096 18:49 11 فير snap  
drwxr-xr-x 2 ahmed ahmed 4096 14:17 1 فير templates  
drwxr-xr-x 2 ahmed ahmed 4096 14:17 1 فير Videos  
ahmed@ahmed-VirtualBox:~$ sudo login  
ahmed-VirtualBox login: itluser1  
Password:  
Welcome to Ubuntu 22.04.1 LTS (GNU/Linux 5.15.0-58-generic x86_64)  
  
* Documentation:  https://help.ubuntu.com  
* Management:    https://landscape.canonical.com  
* Support:       https://ubuntu.com/advantage  
  
193 updates can be applied immediately.  
16 of these updates are standard security updates.  
To see these additional updates run: apt list --upgradable  
  
Last login: 21:21:13 20 فير ن EET 2023 on pts/1  
itluser1@ahmed-VirtualBox:~$ ls -lg  
total 4  
drwxrwxr-x 2 itluser1 4096 21:21 20 فير mydir1  
itluser1@ahmed-VirtualBox:~$
```

```
itluser2@ahmed-VirtualBox: ~  
Last login: 21:21:13 20 فير ن EET 2023 on pts/1  
itluser1@ahmed-VirtualBox:~$ ls -lg  
total 4  
drwxrwxr-x 2 itluser1 4096 21:21 20 فير mydir1  
itluser1@ahmed-VirtualBox:~$ logout  
ahmed@ahmed-VirtualBox:~$ sudo login  
ahmed-VirtualBox login: itluser2  
Password:  
Welcome to Ubuntu 22.04.1 LTS (GNU/Linux 5.15.0-58-generic x86_64)  
  
* Documentation:  https://help.ubuntu.com  
* Management:    https://landscape.canonical.com  
* Support:       https://ubuntu.com/advantage  
  
193 updates can be applied immediately.  
16 of these updates are standard security updates.  
To see these additional updates run: apt list --upgradable  
  
Last login: 21:21:39 20 فير ن EET 2023 on pts/1  
itluser2@ahmed-VirtualBox:~$ ls -lg  
total 4  
drwxrwxr-x 2 itluser2 4096 21:21 20 فير mydir2  
itluser2@ahmed-VirtualBox:~$
```

- Send screenshot of all processes in tree mod
Pstree

```

itiuser2@ahmed-VirtualBox:~$ logout
ahmed@ahmed-VirtualBox:~$ pstree
systemd--ModemManager--2*[{ModemManager}]
--NetworkManager--2*[{NetworkManager}]
--VBoxDRMClient--4*[{VBoxDRMClient}]
--VBoxService--8*[{VBoxService}]
--accounts-daemon--2*[{accounts-daemon}]
--acpid
--apache2--2*[{apache2}--26*[{apache2}]]
--avahi-daemon--avahi-daemon
--colord--2*[{colord}]
--cron
--cups-browsed--2*[{cups-browsed}]
--cupsd
--dbus-daemon
--fwupd--4*[{fwupd}]
--gdm3--gdm-session-wor--gdm-wayland-ses--gnome-session-b--2*[{gnom+
--2*[{gdm-session-wor}]
--2*[{gdm3}]
--gnome-keyring-d--3*[{gnome-keyring-d}]
--2*[{kerneloops}]
--networkd-dispat
--packagekitd--2*[{packagekitd}]
--polkitd--2*[{polkitd}]
--power-profiles--2*[{power-profiles-}]
--rsyslogd--3*[{rsyslogd}]
--rtkit-daemon--2*[{rtkit-daemon}]
--snapd--9*[{snapd}]
--switcheroo-cont--2*[{switcheroo-cont}]
--systemd--(sd-pam)
--2*[{VBoxClient}--VBoxClient--3*[{VBoxClient}]]
--VBoxClient--VBoxClient--3*[{VBoxClient}]]

```

- Execute command `tail -f /var/log/syslog`
- Find the process id PID of tail process then kill it using kill command

kill 4957

```

ahmed@ahmed-VirtualBox: ~
ahmed      2404  0.0  0.6 202876 25224 ?        Sl    20:32   0:00 /usr/libexec/
ahmed      2435  0.0  0.0  28704   344 ?        S     20:32   0:00 /usr/bin/VBox
ahmed      2436  0.1  0.0 226992 2492 ?        Sl    20:32   0:04 /usr/bin/VBox
ahmed      2443  0.0  0.0  28704   348 ?        S     20:32   0:00 /usr/bin/VBox
ahmed      2444  0.3  0.0 227508 2524 ?        Sl    20:32   0:15 /usr/bin/VBox
ahmed      2452  0.0  0.0  28704   348 ?        S     20:32   0:00 /usr/bin/VBox
ahmed      2453  0.0  0.0 160808 2308 ?        Sl    20:32   0:00 /usr/bin/VBox
root       2496  0.1  2.0 458080 82096 ?        Ssl   20:32   0:04 /usr/libexec/
ahmed     2871  0.0  0.7 502624 31696 ?        Sl    20:32   0:00 update-notifi
ahmed     3203  0.3  1.4 575572 56588 ?        Rsl   20:33   0:12 /usr/libexec/
ahmed     3231  0.0  0.1  19668   5208 pts/0    Ss    20:33   0:00 bash
root      3678  0.8  1.1 735984 45280 ?        Ssl   20:36   0:32 /usr/lib/snap
ahmed     4297  0.0  0.0   2888    952 ?        Ss    20:50   0:00 sh -c /usr/bi
ahmed     4298  0.1  3.4 581008 139940 ?        Sl    20:50   0:05 /usr/bin/pyth
ahmed     4432  0.1  1.4 2803520 58960 ?        Sl    21:08   0:02 gjs /usr/shar
root      4517  0.0  0.0     0     0 ?        I     21:13   0:00 [kworker/u2:1
root      4940  0.0  0.0     0     0 ?        I     21:33   0:00 [kworker/0:0-
root      4942  0.0  0.0     0     0 ?        I     21:33   0:00 [kworker/u2:0
ahmed     4957  0.0  0.0   17060   1032 pts/0    S+    21:38   0:00 tail -f /var/
ahmed     4968  0.1  0.1   19668   5192 pts/1    Ss    21:39   0:00 bash
root      4978  0.0  0.0     0     0 ?        I     21:40   0:00 [kworker/u2:2
ahmed     4979  0.0  0.0   21596   3804 pts/1    R+    21:40   0:00 ps -aux
ahmed@ahmed-VirtualBox:~$ kill 4957
ahmed@ahmed-VirtualBox:~$

```

```
ahmed@ahmed-VirtualBox:~$ tail -f /var/log/syslog
Feb 20 21:18:47 ahmed-VirtualBox systemd[1723]: Finished Notification regarding a new release of Ubuntu.
Feb 20 21:18:47 ahmed-VirtualBox systemd[1723]: update-notifier-release.service: Consumed 2.335s CPU time.
Feb 20 21:18:48 ahmed-VirtualBox systemd[1]: ua-timer.service: Deactivated successfully.
Feb 20 21:18:48 ahmed-VirtualBox systemd[1]: Finished Ubuntu Advantage Timer for running repeated jobs.
Feb 20 21:28:08 ahmed-VirtualBox gnome-shell[1877]: Window manager warning: Ping serial 3456408 was reused for window W5, previous use was for window W2.
Feb 20 21:30:01 ahmed-VirtualBox CRON[4874]: (root) CMD ([ -x /etc/init.d/anacron ] && if [ ! -d /run/systemd/system ]; then /usr/sbin/invoke-rc.d anacron start >/dev/null; fi)
Feb 20 21:33:07 ahmed-VirtualBox systemd[1]: Started Run anacron jobs.
Feb 20 21:33:07 ahmed-VirtualBox anacron[4939]: Anacron 2.3 started on 2023-02-20
Feb 20 21:33:07 ahmed-VirtualBox anacron[4939]: Normal exit (0 jobs run)
Feb 20 21:33:07 ahmed-VirtualBox systemd[1]: anacron.service: Deactivated successfully.
Feb 20 21:39:59 ahmed-VirtualBox systemd[1723]: Started Application launched by gnome-shell.
Feb 20 21:40:00 ahmed-VirtualBox systemd[1723]: Started VTE child process 4968 launched by gnome-terminal-server process 3203.
Terminated
ahmed@ahmed-VirtualBox:~$
```