

Ubuntu-Lab3

1. create users called itiuser1, itiuser2

```
sara@sara-VirtualBox:~$ sudo useradd -m itiuser1
sara@sara-VirtualBox:~$ sudo useradd -m itiuser2
sara@sara-VirtualBox:~$ ls /home
itiuser1  itiuser2  sara
```

2. create group called os_team

```
sara@sara-VirtualBox:~$ sudo groupadd os_team
```

3. create directory called os_team_workspace

```
sara@sara-VirtualBox:~$ mkdir /home/sara/Desktop/os_team_workspace
```

4. assign os_team group to the directory
os_team_workspace and change mode to setgid (hint use sudo)

```
sara@sara-VirtualBox:~$ sudo chgrp os_team /home/sara/Desktop/os_team_workspace
sara@sara-VirtualBox:~$ ls -ld /home/sara/Desktop/os_team_workspace
drwxrwxr-x 2 sara os_team 4096 07:56 16 فبر /home/sara/Desktop/os_team_workspace
sara@sara-VirtualBox:~$ chmod g+s /home/sara/Desktop/os_team_workspace
```

5. add users itiuser1 and itiuser2 to os_team group

```
sara@sara-VirtualBox:~$ sudo usermod -a -G os_team itiuser1
[sudo] password for sara:
sara@sara-VirtualBox:~$ sudo usermod -a -G os_team itiuser2
sara@sara-VirtualBox:~$ groups os_team
groups: 'os_team': no such user
sara@sara-VirtualBox:~$ groups itiuser1
itiuser1 : itiuser1 os_team
sara@sara-VirtualBox:~$ groups itiuser2
itiuser2 : itiuser2 os team
```

6. create directory mydir1 using itiuser1 and mydir2 using
itiuser2

```
sara@sara-VirtualBox:/etc$ su itiuser1
Password:
$ cd /var
$ ls
backups  crash  local  log  metrics  os_team_workspace  snap  tmp
cache   lib    lock   mail  opt      run                spool  www
$ cd os_team_workspace
$ mkdir mydir1
mkdir: cannot create directory 'mydir1': Permission denied
$ sudo mkdir mydir1
[sudo] password for itiuser1:
$ ls
mydir1
```

```
$ su itiuser2
Password:
$ cd /var/os_team_workspace
$ sudo mkdir mydir2
[sudo] password for itiuser2:
$ LS
sh: 3: LS: not found
$ ls
mydir1  mydir2
```

7. list directory permissions and send screenshot.

```
$ ls -l
total 8
drwxr-sr-x 2 root os_team 4096 16:03 16 فبر mydir1
drwxr-sr-x 2 root os_team 4096 16:05 16 فبر mydir2
$
```

8. send screenshot of all processes in tree mod

```
$ pstree
systemd--ModemManager--2*[{ModemManager}]
systemd--NetworkManager--2*[{NetworkManager}]
systemd--accounts-daemon--2*[{accounts-daemon}]
systemd--acpid
systemd--avahi-daemon--avahi-daemon
systemd--colord--2*[{colord}]
systemd--cron
systemd--cups-browsed--2*[{cups-browsed}]
systemd--cupsd
systemd--dbus-daemon
systemd--fprintd--4*[{fprintd}]
systemd--gdm3--gdm-session-wor--gdm-session-wor--2*[{gdm-session-wor}]
systemd--gdm3--gdm-session-wor--gdm-wayland-ses--gnome-session-b--2*[{gno+
systemd--gdm3--gdm-session-wor--gdm-wayland-ses--2*[{gdm-wayland-ses}]
systemd--gdm3--gdm-session-wor--3*[{gdm-session-wor}]
systemd--gdm3--2*[{gdm3}]
systemd--gnome-keyring-d--3*[{gnome-keyring-d}]
systemd--htcacheclean
systemd--2*[{kerneloops}]
systemd--networkd-dispat
systemd--packagekitd--2*[{packagekitd}]
systemd--polkitd--2*[{polkitd}]
systemd--power-profiles--2*[{power-profiles-}]
systemd--rsyslogd--3*[{rsyslogd}]
systemd--rtkit-daemon--2*[{rtkit-daemon}]
systemd--snapd--9*[{snapd}]
systemd--switcheroo-cont--2*[{switcheroo-cont}]
systemd--(sd-pam)
systemd--/opt/lampp/bin/--7*[{/opt/lampp/bin/}]
systemd--at-spi2-registr--2*[{at-spi2-registr}]
systemd--dbus-daemon
systemd--dconf-service--2*[{dconf-service}]
systemd--evolution-addre--5*[{evolution-addre}]
systemd--evolution-calen--8*[{evolution-calen}]
systemd--evolution-sourc--3*[{evolution-sourc}]
systemd--file-roller--4*[{file-roller}]
systemd--2*[{gjs--4*[{gjs}]]
systemd--gnome-calendar--5*[{gnome-calendar}]
systemd--gnome-session-b--at-spi-bus-laun--dbus-daemon
systemd--gnome-session-b--at-spi-bus-laun--3*[{at-spi-bus-laun}]
systemd--gnome-session-b--evolution-alarm--5*[{evolution-alarm}]
systemd--gnome-session-b--gsd-disk-utilit--2*[{gsd-disk-utilit}]
systemd--gnome-session-b--update-notifier--3*[{update-notifier}]
systemd--gnome-session-b--3*[{gnome-session-b}]
systemd--gnome-session-c--(gnome-session-c)
systemd--gnome-shell--Xwayland
systemd--gnome-shell--gjs--6*[{gjs}]
systemd--gnome-shell--10*[{gnome-shell}]
systemd--gnome-shell-cal--5*[{gnome-shell-cal}]
systemd--gnome-terminal--bash--sudo--sudo--login--sh--su--b+
systemd--gnome-terminal--bash--sudo--sudo--login--sh--su--b+
systemd--gnome-terminal--2*[{gnome-terminal}]
```

```

|—bash—sudo—sudo—login—sh—su—b+
|—3*[{gnome-terminal-}]
goa-daemon—3*[{goa-daemon}]
goa-identity-se—2*[{goa-identity-se}]
gsd-a11y-settin—3*[{gsd-a11y-settin}]
gsd-color—3*[{gsd-color}]
gsd-datetime—3*[{gsd-datetime}]
gsd-housekeepin—3*[{gsd-housekeepin}]
gsd-keyboard—3*[{gsd-keyboard}]
gsd-media-keys—4*[{gsd-media-keys}]
gsd-power—3*[{gsd-power}]
gsd-print-notif—2*[{gsd-print-notif}]
gsd-printer—3*[{gsd-printer}]
gsd-rfkill—2*[{gsd-rfkill}]
gsd-screensaver—2*[{gsd-screensaver}]
gsd-sharing—3*[{gsd-sharing}]
gsd-smartcard—3*[{gsd-smartcard}]
gsd-sound—3*[{gsd-sound}]
gsd-wacom—3*[{gsd-wacom}]
gsd-xsettings—3*[{gsd-xsettings}]
gvfs-afc-volume—3*[{gvfs-afc-volume}]
gvfs-goa-volume—2*[{gvfs-goa-volume}]
gvfs-gphoto2-vo—2*[{gvfs-gphoto2-vo}]
gvfs-mtp-volume—2*[{gvfs-mtp-volume}]
gvfs-udisks2-vo—3*[{gvfs-udisks2-vo}]
gvfsd—gvfsd-dnssd—2*[{gvfsd-dnssd}]
|—gvfsd-http—2*[{gvfsd-http}]

```

```

|—gvfsd-network—3*[{gvfsd-network}]
|—gvfsd-recent—2*[{gvfsd-recent}]
|—gvfsd-trash—3*[{gvfsd-trash}]
|—2*[{gvfsd}]
gvfsd-fuse—5*[{gvfsd-fuse}]
gvfsd-metadata—2*[{gvfsd-metadata}]
ibus-portal—2*[{ibus-portal}]
ibus-x11—2*[{ibus-x11}]
mysqld_safe—mysqld—29*[{mysqld}]
nautilus—4*[{nautilus}]
pipewire—{pipewire}
pipewire-media—{pipewire-media-}
proftpd
pulseaudio—3*[{pulseaudio}]
seahorse—3*[{seahorse}]
sh—manager-linux-x
sh—ibus-daemon—ibus-engine-sim—2*[{ibus-engine-sim}]
|—ibus-extension—3*[{ibus-extension-}]
|—ibus-memconf—2*[{ibus-memconf}]
|—2*[{ibus-daemon}]
snap—6*[{snap}]
snapd-desktop-i—snapd-desktop-i—3*[{snapd-desktop-i}]
tracker-miner-f—5*[{tracker-miner-f}]
xdg-desktop-por—6*[{xdg-desktop-por}]
|—2*[{xdg-desktop-por—3*[{xdg-desktop-por}]]
xdg-document-po—fusermount3
|—6*[{xdg-document-po}]

```



9. execute command tail -f /var/log/syslog

```

sara@sara-VirtualBox:/var/os_team_workspace$ tail -f /var/log/syslog
Feb 16 16:20:44 sara-VirtualBox gnome-shell[1072]: Window manager warning: Over
writing existing binding of keysym 36 with keysym 36 (keycode f).
Feb 16 16:20:44 sara-VirtualBox gnome-shell[1072]: Window manager warning: Over
writing existing binding of keysym 37 with keysym 37 (keycode 10).
Feb 16 16:20:44 sara-VirtualBox gnome-shell[1072]: Window manager warning: Over
writing existing binding of keysym 39 with keysym 39 (keycode 12).
Feb 16 16:20:44 sara-VirtualBox gnome-shell[1072]: Window manager warning: Over
writing existing binding of keysym 38 with keysym 38 (keycode 11).
Feb 16 16:20:44 sara-VirtualBox dbus-daemon[950]: [session uid=1000 pid=950] Ac
tivating service name='org.gnome.ArchiveManager1' requested by ':1.513' (uid=10
00 pid=177055 comm="gjs /usr/share/gnome-shell/extensions/ding@rasters" label="
unconfined")
Feb 16 16:20:45 sara-VirtualBox dbus-daemon[950]: [session uid=1000 pid=950] Su
ccessfully activated service 'org.gnome.ArchiveManager1'
Feb 16 16:20:45 sara-VirtualBox gnome-shell[1072]: DING: Detected async api for
thumbnails
Feb 16 16:20:45 sara-VirtualBox gnome-shell[1072]: DING: GNOME nautilus 42.2
Feb 16 16:21:07 sara-VirtualBox systemd[1]: fprintd.service: Deactivated succes
sfully.
Feb 16 16:30:01 sara-VirtualBox CRON[177741]: (root) CMD ([ -x /etc/init.d/anac
ron ] && if [ ! -d /run/systemd/system ]; then /usr/sbin/invoke-rc.d anacron st
art >/dev/null; fi)

```

10. find the process id PID of tail process then kill it using kill command

```
177351 root      20    0         0         0         0 I    0.0   0.0   0:00.31 kworke+
177718 root      20    0      22104      5100      4224 S    0.0   0.3   0:00.03 su
177719 sara      20    0      19792      5168      3696 S    0.0   0.3   0:00.01 bash
177758 sara      20    0      17060      1040        952 T    0.0   0.1   0:00.00 tail
178287 sara      20    0  930252 137448 101076 S    0.0   6.8   0:04.84 gnome-+
178553 sara      20    0      21880      3960      3356 R    0.0   0.2   0:03.04 top
178598 root      20    0         0         0         0 I    0.0   0.0   0:00.15 kworke+

[2]+  Stopped                  top
sara@sara-VirtualBox:/var/os_team_workspace$ kill -9 177758
sara@sara-VirtualBox:/var/os_team_workspace$ jobs
[1]-  Killed                  tail -f /var/log/syslog
[2]+  Stopped                  top
sara@sara-VirtualBox:/var/os_team_workspace$ kill -9 178553
sara@sara-VirtualBox:/var/os_team_workspace$ jobs
[2]+  Killed                  top
```