

Lab 3

1. create users called itiuser1, itiuser2

```
vboxuser@Ubuntu:~$ sudo useradd -m itiuser1
[sudo] password for vboxuser:
vboxuser@Ubuntu:~$ sudo useradd -m itiuser2
vboxuser@Ubuntu:~$ ls /home
itiuser1  itiuser2  vboxuser
```

2. create group called os_team

```
vboxuser@Ubuntu:~$ sudo groupadd os_team
```

3. create directory called os_team_workspace

```
vboxuser@Ubuntu:~$ mkdir /home/vboxuser/Desktop/os_team_workspace
```

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

```
vboxuser@Ubuntu:~$ sudo chgrp os_team /home/vboxuser/Desktop/os_team_workspace
vboxuser@Ubuntu:~$ ls -ld /home/vboxuser/Desktop/os_team_workspace
drwxrwxr-x 2 vboxuser os_team 4096 Feb 21 20:39 /home/vboxuser/Desktop/os_team_workspace
vboxuser@Ubuntu:~$ chmod g+s /home/vboxuser/Desktop/os_team_workspace
```

5. add users itiuser1 and itiuser2 to os_team group

```
vboxuser@Ubuntu:~$ chmod g+s /home/vboxuser/Desktop/os_team_workspace
vboxuser@Ubuntu:~$ sudo usermod -a -G os_team itiuser1
vboxuser@Ubuntu:~$ sudo usermod -a -G os_team itiuser2
```

```
vboxuser@Ubuntu:~$ groups itiuser1
itiuser1 : itiuser1 os_team
vboxuser@Ubuntu:~$ groups itiuser2
itiuser2 : itiuser2 os_team
```

6. create directory mydir1 using itiuser1 and mydir2 using itiuser2

```
$ cd/tmp
sh: 5: cd/tmp: not found
$ cd /tmp
$ mkdir os_team_workspace
$ cd os_team_workspace
$ sudo mkdir mydir1
[sudo] password for itiuser1:
itiuser1 is not in the sudoers file. This incident will be reported.
$ mkdir mydir1
$ ls
mydir1
```

```
$ mkdir mydir2
$ ls -l
total 8
drwxrwxr-x 2 itiuser1 itiuser1 4096 Feb 21 21:31 mydir1
drwxrwxr-x 2 itiuser2 itiuser2 4096 Feb 21 22:19 mydir2
```

7. list directory permissions and send screenshot.

```
$ ls -l
total 8
drwxrwxr-x 2 itiuser1 itiuser1 4096 Feb 21 21:31 mydir1
drwxrwxr-x 2 itiuser2 itiuser2 4096 Feb 21 22:19 mydir2
$ exit
```

8. send screenshot of all processes in tree mod

```
vboxuser@ubuntu:/tmp$ cd ..
vboxuser@Ubuntu:/tmp$ pstree
systemd───ModemManager───2*[{ModemManager}]
          └─NetworkManager──2*[{NetworkManager}]
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
gdm3───gdm-session-wor───gdm-wayland-ses───gnome-session-b──2*[{gno+
      │                │                │                │                2*[{gdm-wayland-ses}]
      │                └─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)
          └─at-spi2-registr──2*[{at-spi2-registr}]
```

```

at-spi2-registr—2*[{at-spi2-registr}]
dbus-daemon
dconf-service—2*[{dconf-service}]
evolution-addre—5*[{evolution-addre}]
evolution-calen—8*[{evolution-calen}]
evolution-sourc—3*[{evolution-sourc}]
2*[gjs—4*[{gjs}]]
gnome-calendar—5*[{gnome-calendar}]
gnome-session-b—
  at-spi-bus-laun—dbus-daemon
  |—3*[{at-spi-bus-laun}]
  evolution-alarm—5*[{evolution-alarm}]
  gsd-disk-utilit—2*[{gsd-disk-utilit}]
  update-notifier—3*[{update-notifier}]
  3*[{gnome-session-b}]
gnome-session-c—{gnome-session-c}
gnome-shell—gjs—5*[{gjs}]
|—8*[{gnome-shell}]
gnome-shell-cal—5*[{gnome-shell-cal}]
gnome-terminal—bash—su—sh—su—bash—pstree
|—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—3*[{gsd-media-keys}]
gsd-power—3*[{gsd-power}]

```

```

gsd-power—3*[{gsd-power}]
gsd-print-notif—2*[{gsd-print-notif}]
gsd-printer—2*[{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}]
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-trash—2*[{gvfsd-trash}]
|—2*[{gvfsd}]
gvfsd-fuse—5*[{gvfsd-fuse}]
gvfsd-metadata—2*[{gvfsd-metadata}]
ibus-portal—2*[{ibus-portal}]
pipewire—{pipewire}
pipewire-media-—{pipewire-media-}
pulseaudio—3*[{pulseaudio}]
seahorse—3*[{seahorse}]
sh—ibus-daemon—ibus-dconf—3*[{ibus-dconf}]
|—ibus-engine-sim—2*[{ibus-engine-sim}]
|—ibus-extension-—3*[{ibus-extension-}]
|—2*[{ibus-daemon}]
snapd-desktop-i—snapd-desktop-i—3*[{snapd-desktop-i}]
tracker-miner-f—5*[{tracker-miner-f}]

```

```

snapd-desktop-1—snapd-desktop-1—3*[{snapd-desktop-1}]
tracker-miner-f—5*[{tracker-miner-f}]
xdg-desktop-por—5*[{xdg-desktop-por}]
2*[{xdg-desktop-por—3*[{xdg-desktop-por}]]
xdg-document-po—fusermount3
                    5*[{xdg-document-po}]
xdg-permission—2*[{xdg-permission-}]
systemd-journal
systemd-logind
systemd-oomd
systemd-resolve
systemd-timesyn—{systemd-timesyn}
systemd-udev
udisksd—4*[{udisksd}]
unattended-upgr—{unattended-upgr}
upowerd—2*[{upowerd}]
wpa_supplicant
oxuser@Ubuntu:/ $

```

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

```

vboxuser@Ubuntu:/ $ sudo tail -f /var/log/syslog
[sudo] password for vboxuser:
Feb 21 22:27:42 Ubuntu gnome-shell[1823]: DING: Detected async api for thumbnails
Feb 21 22:27:43 Ubuntu gnome-shell[1823]: Window manager warning: last_user_time (8645306) is greater than comparison timestamp (8644991). This most likely represents a buggy client sending inaccurate timestamps in messages such as _NET_ACTIVE_WINDOW. Trying to work around...
Feb 21 22:27:43 Ubuntu gnome-shell[1823]: Window manager warning: W1 appears to be one of the offending windows with a timestamp of 8645306. Working around.
..
Feb 21 22:27:46 Ubuntu gnome-shell[1823]: DING: GNOME nautilus 42.2
Feb 21 22:28:00 Ubuntu systemd[1]: fprintd.service: Deactivated successfully.
Feb 21 22:30:01 Ubuntu CRON[3334]: (root) CMD ([ -x /etc/init.d/anacron ] && if [ ! -d /run/systemd/system ]; then /usr/sbin/invoke-rc.d anacron start >/dev/null; fi)
Feb 21 22:34:17 Ubuntu systemd[1]: Started Run anacron jobs.
Feb 21 22:34:17 Ubuntu systemd[1]: anacron.service: Deactivated successfully.
Feb 21 22:34:17 Ubuntu anacron[3340]: Anacron 2.3 started on 2023-02-21
Feb 21 22:34:17 Ubuntu anacron[3340]: Normal exit (0 jobs run)

```

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

```

vboxuser@Ubuntu:~$ ps -aux | grep tail
vboxuser    3473  9.0  0.1  18056  2400 pts/0    S+   23:00   0:00 grep --color=auto tail

```