create user: sudo useradd itiuser1

sudo useradd itiuser1

create group: sudo groupadd os\_team

create directory: mkdir os\_team\_workspace

assign grp to dir: sudo chgrp os\_team os\_team workspace

```
ubuntu@ubuntu:-$ useradd itiuser1
useradd: Permission denied.
useradd: cannot lock /etc/passwd; try again later.
ubuntu@ubuntu:-$ sudo useradd itiuser1
ubuntu@ubuntu:~$ sudo useradd itiuser2
ubuntu@ubuntu:~$ sudo groupadd os_team
 Thunderbird Mail $ mkdir os_team_workspace $ chgrp os_team os_team_workspace
chgrp: changing group of 'os_team_workspace': Operation not permitted
ubuntu@ubuntu:~$ sudo chgrp os_team os_team_workspace
ubuntu@ubuntu:~$ ls -l
total 0
drwxr-xr-x 2 ubuntu ubuntu 60 Feb 15 22:48 Desktop
drwxr-xr-x 2 ubuntu ubuntu 40 Feb 15 22:55 Documents
drwxr-xr-x 2 ubuntu ubuntu 40 Feb 15 22:55 Downloads
drwxr-xr-x 2 ubuntu ubuntu 40 Feb 15 22:55 Music
drwxrwxr-x 2 ubuntu os team 40 Feb 15 23:49 os team workspace
drwxr-xr-x 2 ubuntu ubuntu 40 Feb 15 22:55 Pictures
drwxr-xr-x 2 ubuntu ubuntu 40 Feb 15 22:55 Public
drwx----- 3 ubuntu ubuntu 60 Feb 15 22:54 snap
drwxr-xr-x 2 ubuntu ubuntu 40 Feb 15 22:55 Templates
drwxr-xr-x 2 ubuntu ubuntu 40 Feb 15 22:55 Videos
```

change mod to setgid: sudo chmod g+s os team workspace

add user to group:

sudo usermod -a -G os\_team itiuser1

sudo usermod -a -G os\_team itiuser2

## change ownership:

sudo chown itiuser1 mydir1

sudo chown itiuser2 mydir2

```
ubuntu@ubuntu:~$ mkdir mydir1 mydir2
ubuntu@ubuntu:~$ chown itiuser1 mydir1
chown: changing ownership of 'mydir1': Operation not permitted
ubuntu@ubuntu:~$ sudo chown itiuser1 mydir1
ubuntu@ubuntu:~$ sudo chown itiuser2 mydir2
ubuntu@ubuntu:~$ ls -l
total 0
drwxr-xr-x 2 ubuntu
                     ubuntu 60 Feb 15 22:48 Desktop
drwxr-xr-x 2 ubuntu
                     ubuntu 40 Feb 15 22:55 Documents
                     ubuntu 40 Feb 15 22:55 Downloads
drwxr-xr-x 2 ubuntu
drwxr-xr-x 2 ubuntu
                     ubuntu 40 Feb 15 22:55 Music
drwxrwxr-x 2 itiuser1 ubuntu 40 Feb 16 01:01 mydir1
drwxrwxr-x 2 itiuser2 ubuntu 40 Feb 16 01:01 mydir2
drwxrwsr-x 2 ubuntu
                     os team 40 Feb 15 23:49 os team_workspace
drwxr-xr-x 2 ubuntu
                     ubuntu 40 Feb 15 22:55 Pictures
drwxr-xr-x 2 ubuntu
                     ubuntu 40 Feb 15 22:55 Public
drwx----- 3 ubuntu
                     ubuntu 60 Feb 15 22:54 snap
drwxr-xr-x 2 ubuntu
                     ubuntu 40 Feb 15 22:55 Templates
drwxr-xr-x 2 ubuntu
                     ubuntu 40 Feb 15 22:55 Videos
ubuntu@ubuntu:~$ groups os team
groups: 'os team': no such user
ubuntu@ubuntu:~$ groups itiuser1
itiuser1 : itiuser1 os_team
ubuntu@ubuntu:~$
```

## Tree mod:

```
ubuntu@ubuntu:~$ pstree
systemd——ModemManager——2*[{ModemManager}]
          –NetworkManager——2*[{NetworkManager}]
          -accounts-daemon—2*[{accounts-daemon}]
          -acpid
          -avahi-daemon---avahi-daemon
          -colord---2*[{colord}]
          -cups-browsed---2*[{cups-browsed}]
           -cupsd
          -dbus-daemon
          -gdm3<del>----</del>gdm-session-wor--
                                      -gdm-x-session---Xorg---{Xorg}
                                                        -gnome-session-b---2*[{gnome+
                                                         -2*[{gdm-x-session}]
                                      -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---8*[{snapd}]
-switcheroo-cont---2*[{switcheroo-cont}]
          \negsystemd\neg(sd-pam)
```

```
systemd
                 (sd-pam)
                -at-spi-bus-laun—_dbus-daemon
—3*[{at-spi-bus-laun}]
-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-session-b—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}
                                        gjs—5*[{gjs}]
                -gnome-shell-
                                        -7*[{gnome-shell}]
                -gnome-shell-cal——5*[{gnome-shell-cal}]
                gnome-terminal-—bash—pstree
—4*[{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-media-keys --- 3*[{gsd-media-keys}]
                     -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---2*[{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<del>----</del>gvfsd-trash----2*[{gvfsd-trash}]
                              -2*[{gvfsd}]
                     -gvfsd-fuse----5*[{gvfsd-fuse}]
                      gvfsd-metadata---2*[{gvfsd-metadata}]
                     -ibus-portal--2*[{ibus-portal}]
                     -ibus-x11---2*[{ibus-x11}]
                     -pipewire---{pipewire}
                     -pipewire-media----{pipewire-media-}
                     -pulseaudio---3*[{pulseaudio}]
                                          -ibus-dconf---3*[{ibus-dconf}]
                     -sh---ibus-daemon-<sub>-</sub>
                                           -ibus-engine-sim---2*[{ibus-engine-sim}]
                                          -ibus-extension----3*[{ibus-extension-}]
                                           ibus-engine-sim——2*[{ibus-engine-sim}]
                                          -ibus-extension----3*[{ibus-extension-}]
                                          -2*[{ibus-daemon}]
                     -tracker-miner-f---5*[{tracker-miner-f}]
                     -xdg-desktop-por---5*[{xdg-desktop-por}]
                     -xdg-desktop-por---4*[{xdg-desktop-por}]
                     -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-udevd
          -udisksd---4*[{udisksd}]
          -unattended-upgr----{unattended-upgr}
          -upowerd---2*[{upowerd}]
          -wpa_supplicant
         └─zed----2*[{zed}]
ubuntu@ubuntu:~$
```

## Tail command:

```
ubuntu@ubuntu:~$ tail -f /var/log/syslog
Feb 16 00:55:14 ubuntu gnome-shell[5351]: Window manager warning: Overwriting e
xisting binding of keysym 35 with keysym 35 (keycode e).
Feb 16 00:55:14 ubuntu dbus-daemon[4875]: [session uid=999 pid=4875] Successful
ly activated service 'org.gnome.ArchiveManager1'
Feb 16 00:55:15 ubuntu qnome-shell[5351]: DING: Detected async api for thumbnai
ls
Feb 16 00:55:15 ubuntu gnome-shell[5351]: DING: GNOME nautilus 42.2
Feb 16 00:55:22 ubuntu nautilus[6442]: Could not delete '.meta.isrunning': No s
uch file or directory
Feb 16 01:01:48 ubuntu dbus-daemon[4875]: [session uid=999 pid=4875] Activating
via systemd: service name='org.freedesktop.Tracker3.Miner.Extract' unit='track
er-extract-3.service' requested by ':1.10' (uid=999 pid=4989 comm="/usr/libexec
/tracker-miner-fs-3 " label="unconfined")
Feb 16 01:01:48 ubuntu systemd[4859]: Starting Tracker metadata extractor...
Feb 16 01:01:49 ubuntu dbus-daemon[4875]: [session uid=999 pid=4875] Successful
ly activated service 'org.freedesktop.Tracker3.Miner.Extract'
Feb 16 01:01:49 ubuntu systemd[4859]: Started Tracker metadata extractor.
tc/cron.hourly)
```

## Kill tail:

```
ubuntu
           5815 0.1 1.3 825480 53940 ?
                                               Ssl Feb15
                                                           0:10 /usr/libexec
ubuntu
           5835 0.0 0.1 19664 5212 pts/0
                                               Ss
                                                    Feb15
                                                           0:00 bash
root
           6438 0.0 0.0
                              0
                                    0 ?
                                               I
                                                    00:51
                                                           0:00 [kworker/u2:
                 0.0 1.4 2799612 57228 ?
ubuntu
           6450
                                               sl
                                                    00:55
                                                           0:01 gjs /usr/sha
                 0.0 0.0
                                                           0:00 [kworker/u2:
root
           6532
                              0
                                    0 ?
                                               I
                                                    01:08
root
           6541 0.0 0.0
                              0
                                    0 ?
                                                    01:24
                                                           0:00 [kworker/u2:
                                               I
           6542 0.0 0.0 21324 1548 pts/0
                                                    01:28
                                                           0:00 ps aux
ubuntu@ubuntu:~$ kill 6541
bash: kill: (6541) - Operation not permitted
ubuntu@ubuntu:~$ sudo kill 6541
ubuntu@ubuntu:~$
```