LAB 3

STEP-1: Create users called itiuser1, itiuser2

```
Commands

➤ Sudo adduser itiuser1

➤ Sudo adduser itiuser2
```

For itiuser1

```
hager@hager-VirtualBox:~$ sudo adduser itiuser1
[sudo] password for hager:
Adding user `itiuser1' ...
Adding new group `itiuser1' (1001) ...
Adding new user `itiuser1' (1001) with group `itiuser1' ...
Creating home directory `/home/itiuser1' ...
Copying files from `/etc/skel' ...
Enter new UNIX password:
Retype new UNIX password:
passwd: password updated successfully
Changing the user information for itiuser1
Enter the new value, or press ENTER for the default
        Full Name []: itiuser1
        Room Number []:
        Work Phone []:
        Home Phone []:
        Other []:
Is the information correct? [Y/n] Y
hager@hager-VirtualBox:~$
```

For itiuser2

```
hager@hager-VirtualBox:~$ sudo adduser itiuser2

Adding user `itiuser2' ...

Adding new group `itiuser2' (1002) ...

Adding new user `itiuser2' (1002) with group `itiuser2' ...

Creating home directory `/home/itiuser2' ...

Copying files from `/etc/skel' ...

Enter new UNIX password:

Retype new UNIX password:

passwd: password updated successfully

Changing the user information for itiuser2

Enter the new value, or press ENTER for the default

Full Name []: itiuser2

Room Number []:

Work Phone []:

Home Phone []:

Other []:

Is the information correct? [Y/n] Y

hager@hager-VirtualBox:~$
```

STEP-2: Create group called os_team

```
Commands
```

hager@hager-VirtualBox:~\$

hager@hager-VirtualBox:~\$ sudo groupadd os_team hager@hager-VirtualBox:~\$

Sudo groupadd os_team

- **STEP-3**: Create directory called os team workspace

 STEP-4: Assign os_team group to the directory os_team_workspaceand change mode to setgid (hint use sudo)

```
Commands

> Sudo chgrp os_team os_team_workspace
> ls -lg
> sudo chmod g+s os_team_wokspace/
> ls -lg
```

```
hager@hager-VirtualBox:-$ sudo chgrp os_team os_team_workspace
hager@hager-VirtualBox:-$ ls -lg
total 52
drwxr-xr-x 2 hager 4096 في 1 17:29 Documents
drwxr-xr-x 2 hager 4096 في 1 17:29 Downloads
-rw-r--r- 1 hager 8980 في 1 15:37 examples.desktop
drwxrwxr-x 2 hager 4096 في 1 17:29 Music
drwxrwxr-x 2 hager 4096 في 15 14:16 os_team_workspace
drwxr-xr-x 2 os_team 4096 في 15 14:16 os_team_workspace
drwxr-xr-x 2 hager 4096 في 15 14:17 Pictures
drwxr-xr-x 2 hager 4096 في 15 14:17 Pictures
drwxr-xr-x 2 hager 4096 في 17:29 Public
drwxr-xr-x 2 hager 4096 في 17:29 Templates
drwxr-xr-x 2 hager 4096 في 17:29 Videos
hager@hager-VirtualBox:-$ sudo chmod g+s os_team_workspace/
```

```
hager@hager-VirtualBox:-$ sudo chmod g+s os_team_workspace/
hager@hager-VirtualBox:-$ is -ig
total 52
drwxr-xr-x 2 hager
drwxr-xr-x 2 hager
drwxr-xr-x 2 hager
                                  رف 4096
رف 4096
رف 8980
                                                 1 17:29 Desktop
1 17:29 Documents
1 17:29 Downloads
 FW-F--F--
                     hager
                                                  1 15:37 examples.desktop
drwxrwxr-x 2
drwxr-xr-x 2
drwxrwsr-x 2
drwxr-xr-x 2
drwxr-xr-x 2
drwxr-xr-x 2
drwxr-xr-x 2
                                  رف 4096
رف 4096
                                                  8 14:36 ttt-0
                     hager
                                                  1 17:29 Mustc
                     hager
                     os_team 4096 وف 15 14:16 os_team_workspace
                                   4096 وف 15 14:27 Pictures
                     hager
                                  4096 رف 1 17:29 Public
4096 رف 1 17:29 Templates
                     hager
                     hager
                     hager
                                  4096
                                                   1 17:29 Videos
```

STEP-5: Add users itituser1 and itituser2 to os_teamgroup

Commands

- Sudo usermod -G os_team itiuser1
- Sudo usermod -G os_team itiuser2
- Getent group os_team

```
hager@hager-VirtualBox:~$ sudo usermod -G os_team itiuser1
hager@hager-VirtualBox:~$ sudo usermod -G os_team itiuser2
hager@hager-VirtualBox:~$ getent group os_team
os_team:x:1003:itiuser1,itiuser2
hager@hager-VirtualBox:~$
```

STEP-6: Create directory mydir1 using itiuser1 and mydir2 using itiuser2 and
 List directory permissions and send screenshot

Commands

- Sudo login
 itiuser1
- mkdir mydir1
- ▶ ls -lq

```
🛑 📵 itiuser1@hager-VirtualBox: ~
hager@hager-VirtualBox:~$ sudo login
[sudo] password for hager:
hager-VirtualBox login: itiuser1
Welcome to Ubuntu 16.04.3 LTS (GNU/Linux 4.10.0-28-generic x86_64)
* Documentation: https://help.ubuntu.com
* Management:
                   https://landscape.canonical.com
https://ubuntu.com/advantage
* Support:
645 packages can be updated.
486 updates are security updates.
The programs included with the Ubuntu system are free software;
the exact distribution terms for each program are described in the
individual files in /usr/share/doc/*/copyright.
Ubuntu comes with ABSOLUTELY NO WARRANTY, to the extent permitted by
applicable law.
itiuser1@hager-VirtualBox:~$ mkdir mydir1
itiuser1@hager-VirtualBox:~$ ls -lg
total 16
-rw-r--r-- 1 os_team 8980 رف 15 13:57 examples.desktop
15 14:39 mydir1 رفف drwxr-xr-x 2 os_team 4096
```

Commands

- Sudo login itiuser2
- mkdir mydir2
- ➤ 1s -1d

```
🙆 🗐 📵 itiuser2@hager-VirtualBox: ~
hager@hager-VirtualBox:~$ sudo login
[sudo] password for hager:
hager-VirtualBox login: itiuser2
Password:
Welcome to Ubuntu 16.04.3 LTS (GNU/Linux 4.10.0-28-generic x86_64)
 * Documentation: https://help.ubuntu.com
* Management: https://landscape.canonical.com
                   https://ubuntu.com/advantage
 * Support:
645 packages can be updated.
486 updates are security updates.
New release '18.04.6 LTS' available.
Run 'do-release-upgrade' to upgrade to it.
The programs included with the Ubuntu system are free software;
the exact distribution terms for each program are described in the
individual files in /usr/share/doc/*/copyright.
Ubuntu comes with ABSOLUTELY NO WARRANTY, to the extent permitted by
applicable law.
itiuser2@hager-VirtualBox:~$ mkdir mydir2
itiuser2@hager-VirtualBox:~$ ls -ld
drwxr-xr-x 4 itiuser2 os team 4096 رف 15 14:43
```

- STEP-7: Send screenshot of all processes in tree mod

Commands

> pstree

STEP-8: Execute command tail -f /var/log/syslog

Commands

tail -f/var/log/syslog

```
hager@hager-VirtualBox:~$ tail -f /var/log/syslog
Feb 15 14:40:57 hager-VirtualBox systemd[1]: Started Hostname Service.
Feb 15 14:44:11 hager-VirtualBox dbus[716]: [system] Activating via systemd: ser
vice name='org.freedesktop.hostname1' unit='dbus-org.freedesktop.hostname1.servi
ce'
Feb 15 14:44:11 hager-VirtualBox systemd[1]: Starting Hostname Service...
Feb 15 14:44:11 hager-VirtualBox dbus[716]: [system] Successfully activated serv
ice 'org.freedesktop.hostname1'
Feb 15 14:44:11 hager-VirtualBox systemd[1]: Started Hostname Service.
Feb 15 14:50:23 hager-VirtualBox org.gnome.evolution.dataserver.Sources5[1426]:
** (evolution-source-registry:1691): WARNING **: secret_service search sync: mus
t specify at least one attribute to match
Feb 15 14:51:04 hager-VirtualBox dbus[716]: [system] Activating via systemd: ser
vice name='org.freedesktop.hostname1' unit='dbus-org.freedesktop.hostname1.servi
ce
Feb 15 14:51:04 hager-VirtualBox systemd[1]: Starting Hostname Service...
Feb 15 14:51:04 hager-VirtualBox dbus[716]: [system] Successfully activated serv
ice 'org.freedesktop.hostname1'
Feb 15 14:51:04 hager-VirtualBox systemd[1]: Started Hostname Service.
```

- STEP-9: Find the process id PID of tail process then kill it using kill command

```
Commands

In new terminal

Ps -aux

Sudo Kill -9 3322
```

```
hager@hager-VirtualBox: ~
                      0.0
                            0.7 321556 16260
                                                                                   0:00 /usr/llb/x86_64
hager
              1932
                                                                        13:50
                                                                                   0:00 /usr/lib/x80_64
0:00 update-notifier
0:00 /usr/lib/x86_64
0:00 /usr/bin/unity-
0:00 /usr/lib/x86_64
0:00 /usr/lib/gvfs/g
0:00 /usr/lib/gvfs/g
0:00 [kworker/u4:1]
0:00 [kworker/1:1]
                            1.2 533440
              1977
                     0.0
hager
                                            25780
                                                                        13:51
                     0.0
hager
             2008
                            0.9 654052
                                            19584
                                                                        13:51
                                                                 51
51
                            1.2 591636
                     0.0
             2023
                                            24896
                                                                        13:51
hager
                            0.6 637692
hager
             2025
                     0.0
                                            14048
                                                                        13:51
                                                                 s1
s1
s
s
s
                            0.4 448376
             2382
                     0.0
                                             8724
hager
                                                                        13:52
                      0.0
                            0.4 444864
                                                                        13:55
hager
             2423
                                             8432
             2449
                            0.3 368792
                                                                        13:55
hager
                      0.0
                                             6844
                            0.0
root
             2748
                      0.0
                                         0
                                                                        14:28
                                                                                           [kworker/1:1]
[kworker/0:1]
root
             2844
                      0.0
                            0.0
                                         0
                                                                        14:37
                                                                                   0:00
root
             2889
                      0.0
                            0.0
                                         0
                                                  0
                                                                        14:38
                                                                                   0:00
                                                                                           [kworker/1:2]
[kworker/0:2]
root
             3142
                      0.0
                            0.0
                                         0
                                                  0
                                                                        14:51
                                                                                   0:00
root
             3168
                      0.0
                            0.0
                                                  0
                                                                        14:52
                                                                                    0:00
                                                                                   0:00 [kworker/u4:2]
0:00 [kworker/0:0]
0:04 /usr/lib/firefo
0:00 /usr/lib/x86_64
0:00 /usr/lib/gnome-
root
             3178
                      0.0
                            0.0
                                         0
                                                  0
                                                                        14:56
root
              3198
                      0.0
                            0.0
                                                                        14:59
                      2.9 10.1 1909524 208224 ?
hager
              3215
                                                                        15:00
                                             5448
hager
              3250
                      0.0
                            0.2
                                   68244
                                                                        15:00
              3300
                      0,3
                            1.8
                                  604908 38256
                                                                         15:01
hager
              3307
                      0.0
                            0.2
                                    29460
                                             4884 pts/4
                                                                         15:01
                                                                                    0:00
                                                                                          bash
hager
              3322
                      0.0
                            0.0
                                    14396
                                               708 pts/4
                                                                         15:02
                                                                                    0:00 tail
hager
                                                                                                 -f /var/lo
              3334
                                                                        15:02
hager
                      0.0
                            0.2
                                    29460
                                              4916
                                                    pts/11
                                                                                    0:00 bash
                      0.0
                            0.0
                                                                         15:03
                                                                                    0:00 [kworker/u4:0]
root
              3346
                                         0
             3347
                      0.0
                            0.1
                                    44436
                                              3388 pts/11
                                                                        15:03
                                                                                    0:00 ps -aux
hager
                                    sudo kill -9 3322
hager@hager-VirtualBox:~$
```

```
🔊 🖨 🗊 hager@hager-VirtualBox: ~
hager@hager-VirtualBox:~$ tail -f /var/log/syslog
Feb 15 14:51:04 hager-VirtualBox dbus[716]: [system] Successfully activated serv
ice 'org.freedesktop.hostname1'
Feb 15 14:51:04 hager-VirtualBox systemd[1]: Started Hostname Service.
Feb 15 14:52:24 hager-VirtualBox dbus[716]: [system] Activating via systemd: ser vice name='org.freedesktop.hostname1' unit='dbus-org.freedesktop.hostname1.servi
ce'
Feb 15 14:52:24 hager-VirtualBox systemd[1]: Starting Hostname Service...
Feb 15 14:52:24 hager-VirtualBox dbus[716]: [system] Successfully activated serv
ice 'org.freedesktop.hostname1'
Feb 15 14:52:24 hager-VirtualBox systemd[1]: Started Hostname Service.
Feb 15 14:58:38 hager-VirtualBox dbus[716]: [system] Activating via systemd: ser vice name='org.freedesktop.hostname1' unit='dbus-org.freedesktop.hostname1.servi
ce'
Feb 15 14:58:38 hager-VirtualBox systemd[1]: Starting Hostname Service...
Feb 15 14:58:38 hager-VirtualBox dbus[716]: [system] Successfully activated serv
ice 'org.freedesktop.hostname1'
Feb 15 14:58:38 hager-VirtualBox systemd[1]: Started Hostname Service.
Feb 15 15:05:24 hager-VirtualBox dbus[716]: [system] Activating via systemd: ser
vice name='orq.freedesktop.hostname1' unit='dbus-orq.freedesktop.hostname1.servi
ce'
Feb 15 15:05:24 hager-VirtualBox systemd[1]: Starting Hostname Service...
Feb 15 15:05:24 hager-VirtualBox dbus[716]: [system] Successfully activated serv
ice 'org.freedesktop.hostname1'
Feb 15 15:05:24 hager-VirtualBox systemd[1]: Started Hostname Service.
Killed
hager@hager-VirtualBox:~$
```