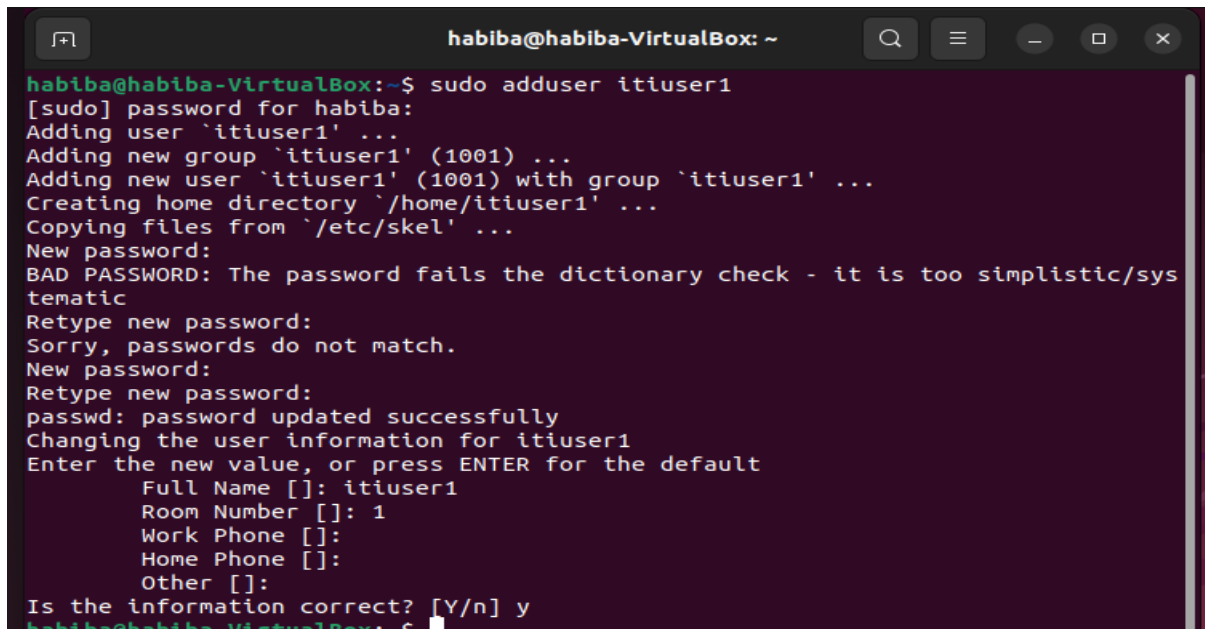


Lab3

- Create users called itiuser1,itiuser2

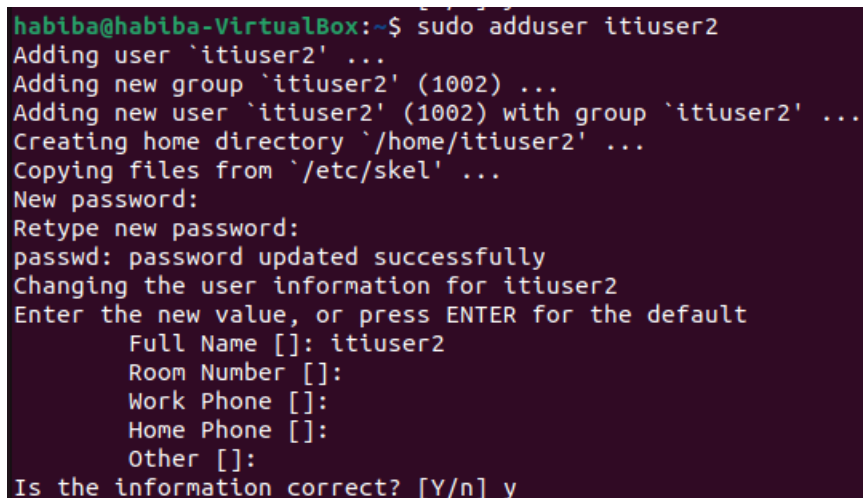
To create Them we write command :

Sudo adduser itiuser1



```
habiba@habiba-VirtualBox: ~  
habiba@habiba-VirtualBox:~$ sudo adduser itiuser1  
[sudo] password for habiba:  
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' ...  
New password:  
BAD PASSWORD: The password fails the dictionary check - it is too simplistic/systematic  
Retype new password:  
Sorry, passwords do not match.  
New password:  
Retype new 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 []: 1  
Work Phone []:  
Home Phone []:  
Other []:  
Is the information correct? [Y/n] y  
habiba@habiba-VirtualBox:~$
```

Sudo adduser itiuser2



```
habiba@habiba-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' ...  
New password:  
Retype new 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
```

- Create group called os_team:

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

- Create directory called os_team_workspace:

```
habiba@habiba-VirtualBox:~$ mkdir os_team_workspace
habiba@habiba-VirtualBox:~$
```

- Assign os_team group to the directory os_team_workspace and change mode to setgid:

```
habiba@habiba-VirtualBox:~$ mkdir os_team_workspace
habiba@habiba-VirtualBox:~$ sudo chgrp os_team os_team_workspace
habiba@habiba-VirtualBox:~$ ls -lg
total 44
drwxr-xr-x 2 habiba 4096 13:32 1 فبر Desktop
drwxr-xr-x 2 habiba 4096 13:32 1 فبر Documents
drwxr-xr-x 2 habiba 4096 23:07 11 فبر Downloads
-rw-r--r-- 1 root 0 23:44 11 فبر index.html
drwxrwxr-x 2 habiba 4096 15:08 8 فبر iti-0
drwxr-xr-x 2 habiba 4096 13:32 1 فبر Music
drwxrwxr-x 2 os_team 4096 03:57 20 فبر os_team_workspace
drwxr-xr-x 2 habiba 4096 13:32 1 فبر Pictures
drwxr-xr-x 2 habiba 4096 13:32 1 فبر Public
drwx----- 4 habiba 4096 22:39 11 فبر snap
drwxr-xr-x 2 habiba 4096 13:32 1 فبر Templates
drwxr-xr-x 2 habiba 4096 13:32 1 فبر Videos
habiba@habiba-VirtualBox:~$ sudo chmod g+s os_team_workspace
habiba@habiba-VirtualBox:~$ ls -lg
total 44
drwxr-xr-x 2 habiba 4096 13:32 1 فبر Desktop
drwxr-xr-x 2 habiba 4096 13:32 1 فبر Documents
drwxr-xr-x 2 habiba 4096 23:07 11 فبر Downloads
-rw-r--r-- 1 root 0 23:44 11 فبر index.html
drwxrwxr-x 2 habiba 4096 15:08 8 فبر iti-0
drwxr-xr-x 2 habiba 4096 13:32 1 فبر Music
drwxrwsr-x 2 os_team 4096 03:57 20 فبر os_team_workspace
drwxr-xr-x 2 habiba 4096 13:32 1 فبر Pictures
drwxr-xr-x 2 habiba 4096 13:32 1 فبر Public
drwx----- 4 habiba 4096 22:39 11 فبر snap
drwxr-xr-x 2 habiba 4096 13:32 1 فبر Templates
drwxr-xr-x 2 habiba 4096 13:32 1 فبر Videos
habiba@habiba-VirtualBox:~$
```

- Add users itiyser1 and itiuser2 to os_teamgroup:

```
habiba@habiba-VirtualBox:~$ sudo usermod -G os_team itiyser1
habiba@habiba-VirtualBox:~$ sudo usermod -G os_team itiuser2
habiba@habiba-VirtualBox:~$ getent group os_team
os_team:x:1003:itiuser1,itiuser2
habiba@habiba-VirtualBox:~$
```

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

```
habiba@habiba-VirtualBox:~$ sudo login
habiba-VirtualBox login: 123123
Password:

Login incorrect
habiba-VirtualBox login: itiuser1
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

295 updates can be applied immediately.
150 of these updates are standard security updates.
To see these additional updates run: apt list --upgradable

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@habiba-VirtualBox:~$ mkdir mydir1
itiuser1@habiba-VirtualBox:~$ ls -lg
total 4
drwxrwxr-x 2 itiuser1 4096 04:15 20 فبر mydir1
itiuser1@habiba-VirtualBox:~$
```

```

itiuser1@habiba-VirtualBox:~$ exit
logout
habiba@habiba-VirtualBox:~$ sudo login
habiba-VirtualBox login: itiuser2
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

295 updates can be applied immediately.
150 of these updates are standard security updates.
To see these additional updates run: apt list --upgradable

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@habiba-VirtualBox:~$ mkdir mydir2
itiuser2@habiba-VirtualBox:~$ ls -ld
drwxr-x--- 4 itiuser2 itiuser2 4096 04:22 20 فبراير
itiuser2@habiba-VirtualBox:~$

```

- Send screenshot of all processes in tree mod:

```

itiuser2@habiba-VirtualBox:~$ exit
logout
habiba@habiba-VirtualBox:~$ 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*[{gn
--2*[{gdm3}]--2*[{gdm-session-wor}]--2*[{gdm-wayland-ses}]
--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}]
--dbus-daemon
--logd--3*[{logd}]

```

- Execute command `tail -f /var/log/syslog`:

```
habiba@habiba-VirtualBox:~$ tail -f /var/log/syslog
Feb 20 03:53:12 habiba-VirtualBox systemd[1]: NetworkManager-dispatcher.service:
  Deactivated successfully.
Feb 20 03:57:41 habiba-VirtualBox dbus-daemon[1363]: [session uid=1000 pid=1363]
  Activating via systemd: service name='org.freedesktop.Tracker3.Miner.Extract' u
nit='tracker-extract-3.service' requested by ':1.11' (uid=1000 pid=1427 comm="/u
sr/libexec/tracker-miner-fs-3 " label="unconfined")
Feb 20 03:57:41 habiba-VirtualBox systemd[1345]: Starting Tracker metadata extra
ctor...
Feb 20 03:57:41 habiba-VirtualBox dbus-daemon[1363]: [session uid=1000 pid=1363]
  Successfully activated service 'org.freedesktop.Tracker3.Miner.Extract'
Feb 20 03:57:41 habiba-VirtualBox systemd[1345]: Started Tracker metadata extrac
tor.
Feb 20 04:15:01 habiba-VirtualBox systemd[1345]: Starting Notification regarding
  a new release of Ubuntu...
Feb 20 04:15:23 habiba-VirtualBox check-new-release-gtk[4705]: WARNING:root:time
out reached, exiting
Feb 20 04:15:23 habiba-VirtualBox systemd[1345]: Finished Notification regarding
  a new release of Ubuntu.
Feb 20 04:15:23 habiba-VirtualBox systemd[1345]: update-notifier-release.service
: Consumed 1.030s CPU time.
Feb 20 04:17:01 habiba-VirtualBox CRON[4792]: (root) CMD (  cd / && run-parts -
-report /etc/cron.hourly)
```

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

```
habiba@habiba-VirtualBox:~$ ps -aux
```

USER	PID	%CPU	%MEM	VSZ	RSS	TTY	STAT	START	TIME	COMMAND
root	1	0.0	0.1	167868	13064	?	Ss	02:52	0:01	/sbin/init splash
root	2	0.0	0.0	0	0	?	S	02:52	0:00	[kthreadd]
root	3	0.0	0.0	0	0	?	I<	02:52	0:00	[rcu_gp]
root	4	0.0	0.0	0	0	?	I<	02:52	0:00	[rcu_par_gp]
root	5	0.0	0.0	0	0	?	I<	02:52	0:00	[slub_flushwq]
root	6	0.0	0.0	0	0	?	I<	02:52	0:00	[netns]
root	8	0.0	0.0	0	0	?	I<	02:52	0:00	[kworker/0:0H-events_highpri]
root	10	0.0	0.0	0	0	?	I<	02:52	0:00	[mm_percpu_wq]
root	11	0.0	0.0	0	0	?	S	02:52	0:00	[rcu_tasks_rude_]
root	12	0.0	0.0	0	0	?	S	02:52	0:00	[rcu_tasks_trace]
root	13	0.0	0.0	0	0	?	S	02:52	0:00	[ksoftirqd/0]
root	14	0.0	0.0	0	0	?	I	02:52	0:01	[rcu_sched]
root	15	0.0	0.0	0	0	?	S	02:52	0:00	[migration/0]
root	16	0.0	0.0	0	0	?	S	02:52	0:00	[idle_inject/0]
root	18	0.0	0.0	0	0	?	S	02:52	0:00	[cpuhp/0]
root	19	0.0	0.0	0	0	?	S	02:52	0:00	[kdevtmpfs]
root	20	0.0	0.0	0	0	?	I<	02:52	0:00	[inet_frag_wq]
root	21	0.0	0.0	0	0	?	S	02:52	0:00	[kauditd]
root	22	0.0	0.0	0	0	?	S	02:52	0:00	[khungtaskd]
root	23	0.0	0.0	0	0	?	S	02:52	0:00	[oom_reaper]
root	24	0.0	0.0	0	0	?	I<	02:52	0:00	[writeback]
root	25	0.0	0.0	0	0	?	S	02:52	0:00	[kcompactd0]
root	26	0.0	0.0	0	0	?	SN	02:52	0:00	[ksmd]
root	27	0.0	0.0	0	0	?	SN	02:52	0:00	[khugepaged]
root	73	0.0	0.0	0	0	?	I<	02:52	0:00	[kintegrityd]
root	74	0.0	0.0	0	0	?	I<	02:52	0:00	[kblockd]

```
habiba      4533  0.0  0.6 2803280 58248 ?      Sl   03:50   0:00 gjs /usr/share/gnome-shell/extensions
root        4789  0.1  0.0      0      0 ?      I    04:15   0:02 [kworker/0:2-events]
root        4798  0.0  0.0      0      0 ?      I    04:20   0:00 [kworker/u2:0-events_unbound]
habiba      4862  0.0  0.0  19668  5216 pts/1   Ss   04:31   0:00 bash
root        4893  0.0  0.0      0      0 ?      I    04:36   0:00 [kworker/u2:1-events_unbound]
root        4901  0.0  0.0      0      0 ?      I    04:41   0:00 [kworker/u2:2-events_unbound]
habiba      4906  0.0  0.0  17060  1008 pts/0   S+   04:47   0:00 tail -f /var/log/syslog
habiba      4907  0.0  0.0  21596  3712 pts/1   R+   04:48   0:00 ps -aux
habiba@habiba-VirtualBox:~$ kill -9 4906
habiba@habiba-VirtualBox:~$
```