

## Lab -01 - User management

- Create user

```
ubuntu@ip-172-31-11-127: ~  
ubuntu@ip-172-31-11-127:~$ sudo adduser priti  
info: Adding user `priti' ...  
info: Selecting UID/GID from range 1000 to 59999 ...  
info: Adding new group `priti' (1001) ...  
info: Adding new user `priti' (1001) with group `priti (1001)' ...  
info: Creating home directory `/home/priti' ...  
info: Copying files from `/etc/skel' ...  
New password:  
Retype new password:  
passwd: password updated successfully  
Changing the user information for priti  
Enter the new value, or press ENTER for the default  
Full Name []:  
Room Number []:  
Work Phone []:  
Home Phone []:  
Other []:  
Is the information correct? [Y/n] Y  
info: Adding new user `priti' to supplemental / extra groups `users' ...  
info: Adding user `priti' to group `users' ...  
ubuntu@ip-172-31-11-127:~$ |
```

Here it creates user `priti` using command `'adduser'`

- Switch user

```
ubuntu@ip-172-31-11-127:~$ su priti  
Password:  
priti@ip-172-31-11-127:/home/ubuntu$ |
```

It switches user using `'su'` command

- Verify Home directory

```
priti@ip-172-31-11-127: /home  
priti@ip-172-31-11-127:/home/ubuntu$ echo $HOME  
/home/priti  
priti@ip-172-31-11-127:/home/ubuntu$ |
```

## Lab - 02 - Permissions

- Create file

Created a file named `'demo.txt'` using command `touch`

```
ubuntu@ip-172-31-11-127: ~  
ubuntu@ip-172-31-11-127:~$ touch demo.txt  
ubuntu@ip-172-31-11-127:~$ echo "Hello buddy!!" > demo.txt  
echo "Hello buddytouch demo.txt" > demo.txt  
ubuntu@ip-172-31-11-127:~$ cat demo.txt  
Hello buddytouch demo.txt  
ubuntu@ip-172-31-11-127:~$ echo "Hello buddy!" > demo.txt  
ubuntu@ip-172-31-11-127:~$ cat demo.txt  
Hello buddy!  
ubuntu@ip-172-31-11-127:~$ ls -l  
total 4  
-rw-rw-r-- 1 ubuntu ubuntu 13 Feb 23 16:10 demo.txt  
ubuntu@ip-172-31-11-127:~$
```

- Modify permission

```
ubuntu@ip-172-31-11-127: ~  
ubuntu@ip-172-31-11-127:~$ ls -l  
total 4  
-rw-rw-r-- 1 ubuntu ubuntu 13 Feb 23 16:10 demo.txt  
ubuntu@ip-172-31-11-127:~$ chmod 700 demo.txt  
ubuntu@ip-172-31-11-127:~$ ls -l  
total 4  
-rwx----- 1 ubuntu ubuntu 13 Feb 23 16:10 demo.txt  
ubuntu@ip-172-31-11-127:~$
```

Changed the permission using command 'chmod 700' which means as follows:

Owner → read, write, execute

Group → no access

Others → no access

- Change ownership

```
ubuntu@ip-172-31-11-127:~$ sudo chown priti demo.txt  
ubuntu@ip-172-31-11-127:~$ ls -l  
total 4  
-rwx----- 1 priti ubuntu 13 Feb 23 16:10 demo.txt  
ubuntu@ip-172-31-11-127:~$
```

Changed the ownership of the file using 'chown' command

- Test access

```
ubuntu@ip-172-31-11-127:~$ su priti  
Password:  
priti@ip-172-31-11-127:/home/ubuntu$ cat demo.txt  
cat: demo.txt: Permission denied  
priti@ip-172-31-11-127:/home/ubuntu$ echo "Test" > demo.txt  
bash: demo.txt: Permission denied  
priti@ip-172-31-11-127:/home/ubuntu$
```

When user was changed from ubuntu to priti the content of the file did not get displayed.

### Lab - 03 - Process control

- Run background processes = used 'sleep' command
- Identify PID = used 'ps' command
- Kill process = used 'kill' command

```
ubuntu@ip-172-31-11-127: ~  
ubuntu@ip-172-31-11-127:~$ sleep 100 &  
[1] 1662  
ubuntu@ip-172-31-11-127:~$ ps  
  PID TTY          TIME CMD  
 1002 pts/0        00:00:00 bash  
 1662 pts/0        00:00:00 sleep  
 1663 pts/0        00:00:00 ps  
ubuntu@ip-172-31-11-127:~$ kill -9 1662  
ubuntu@ip-172-31-11-127:~$ ps  
  PID TTY          TIME CMD  
 1002 pts/0        00:00:00 bash  
 1664 pts/0        00:00:00 ps  
[1]+  Killed                  sleep 100  
ubuntu@ip-172-31-11-127:~$ |
```

### Lab 04 – Edit with vim

- Create file  
Used 'vim' command if file does not exist, it creates a file
- Insert content  
By default vim opens in normal mode, now press 'i' to enter the text
- Save & exit  
:w → write (save)  
:q → quit

```
ubuntu@ip-172-31-11-127: ~  
ubuntu@ip-172-31-11-127:~$ vim lab4.txt  
ubuntu@ip-172-31-11-127:~$ cat lab4.txt  
This is lab 4  
learning vim editor in linux  
  
ubuntu@ip-172-31-11-127:~$ |
```