User Management Commands:

1. useradd

The useradd command is used to add a new user to the system.

"useradd -m username"

```
root@ubuntu:/home# useradd -m user2
root@ubuntu:/home# ls
simran  user2
root@ubuntu:/home#
```

2. Adding more info while creating the user

Useradd -g groupname -s /bin/bash -c "Just the description" -m -d /home/user3 user3

-g to add user to a group

-s to specify the shell for this user3

-m while creating this user create the home directory as well

-c just to add some description

-d to specify the directory where you want to create this user home/user3 (directory name)

```
root@ubuntu:/home# useradd -g user2 -s /bin/bash -c "Te
sting part" -m -d /home/user3 user3
root@ubuntu:/home# ls -ltr
total 12
drwxr-x---  2 user2  user2  4096 Nov 24 15:08 user2
drwxr-x--- 18 simran simran 4096 Nov 27 19:58 simran
drwxr-x---  2 user3  user2  4096 Nov 27 20:13 user3
root@ubuntu:/home#
```

USERDEL Command:

Userdel user3

If you want to delete the home directory of this user then use option -r

Userdel -r user3

```
root@ubuntu:/home# userdel user3
root@ubuntu:/home# ls
simran  user2  user3
root@ubuntu:/home# ls -ltr
total 12
drwxr-x---  2 user2  user2  4096 Nov 24 15:08 user2
drwxr-x--- 18 simran simran 4096 Nov 27 19:58 simran
drwxr-x---  2  1002 user2  4096 Nov 27 20:13 user3
root@ubuntu:/home#
```

Now to delete home directory of user3 then use -r option

Now user3 is just a directory as we have already deleted the user

We can use **rm -rf user3** to delete this directory

Userdel -f user3 **{-f }**is to delete the user when currently user is logged in }

To Modify the users: (USERMOD)

We have this user2 whose group is also user2 now if we want that user2 should also be the part of group simran

```
root@ubuntu:/home# ls -ltr
total 8
drwxr-x--- 2 user2  user2  4096 Nov 24 15:08 user2
drwxr-x--- 18 simran simran 4096 Nov 27 19:58 simran
root@ubuntu:/home# id user2
uid=1001(user2) gid=1001(user2) groups=1001(user2)
root@ubuntu:/home#
```

Usermod -G simran(thegroupname) **user2**(name of the user)

```
root@ubuntu:/home# usermod -G simran user2
root@ubuntu:/home# ls -ltr
total 8
drwxr-x--- 2 user2  user2  4096 Nov 24 15:08 user2
drwxr-x--- 18 simran simran 4096 Nov 28 11:49 simran
root@ubuntu:/home# if user2
> ^C
root@ubuntu:/home# id user2
uid=1001(user2) gid=1001(user2) groups=1001(user2),1000
(simran)
root@ubuntu:/home#
```

Now the User2 is member of another group that is "simran" but if you will use command "ls -ltr" then the default group is still "user2"

So -G is to add a user in another group

Now, let's see how we can change the default group of user2

Usermod -g simran(group_name) **user2**(user_name)

```
(simran)
root@ubuntu:/home# usermod -g simran user2
root@ubuntu:/home# le -ltr
Command 'le' not found, but can be installed with:
apt install le
root@ubuntu:/home# ls -ltr
total 8
drwxr-x--- 2 user2  simran 4096 Nov 24 15:08 user2
drwxr-x--- 18 simran simran 4096 Nov 28 11:49 simran
root@ubuntu:/home#
```

Options in USERMOD

In order to change the home directory in some new directory

Usermod -m -d /home/new_folder   user2

```
simran  user2
root@ubuntu:/home# mkdir user2/folder1
root@ubuntu:/home# cd user2
root@ubuntu:/home/user2# ls
folder1
root@ubuntu:/home/user2# cd ..
root@ubuntu:/home# usermod -m -d /home/user3 user2
root@ubuntu:/home# ls
simran  user3
root@ubuntu:/home# cd user3
root@ubuntu:/home/user3# ls
folder1
root@ubuntu:/home/user3#
```

How to set the password for any user

Type the password for the user and confirm it

```
root@ubuntu:/home/user3# passwd user2
New password:
BAD PASSWORD: The password is shorter than 8 characters
Retype new password:
Sorry, passwords do not match.
New password:
BAD PASSWORD: The password is shorter than 8 characters
Retype new password:
passwd: password updated successfully
root@ubuntu:/home/user3# ls
folder1
root@ubuntu:/home/user3# cd ..
root@ubuntu:/home# ls -ltr
total 8
drwxr-x--- 18 simran simran 4096 Nov 28 11:49 simran
drwxr-x---  3 user2  simran 4096 Nov 28 11:59 user3
root@ubuntu:/home# ls
simran  user3
root@ubuntu:/home#
```

Now try to login as this user2

Su user2

```
simran@ubuntu:~$ su user2
Password:
$
$
$
$ ls
Desktop    Downloads  Music     Public    temp        Videos
Documents  folder18   Pictures  snap      Templates
$ whoami
user2
$
```

Now try to Lock this user for that you need to login to the root user account

Usermod -L user2

```
$ su root
Password:
root@ubuntu:/home/simran# usermod -L user2
root@ubuntu:/home/simran#
```

Now when you will try to again login to user2 there will be Authentication failure
Because we have Locked the user2
Now to Unlock the user2

```
simran@ubuntu:~$ su root
Password:
root@ubuntu:/home/simran# usermod -U user2
root@ubuntu:/home/simran# exit
exit
simran@ubuntu:~$ su user2
Password:
$ ls
Desktop    Downloads  Music     Public    temp        Videos
Documents  folder18   Pictures  snap      Templates
$
```

How to create a group:

to check this group

```
root@ubuntu:/home/simran# cd ..
root@ubuntu:/home# useradd group1
root@ubuntu:/home# ls
simran  user3
root@ubuntu:/home# less /etc/group
root@ubuntu:/home#
```

```
colord:x:130:
geoclue:x:131:
pulse:x:132:
pulse-access:x:133:
gdm:x:134:
lxd:x:135:
simran:x:1000:user2
sambashare:x:136:
vboxsf:x:999:simran
vboxdrmipc:x:998:
plocate:x:137:
user2:x:1001:
group1:x:1002:
(END)
```

Now if you want to delete this group

userdel group1

less /etc/group

```
root@ubuntu:/home/simran# cd ..
root@ubuntu:/home# useradd group1
root@ubuntu:/home# ls
simran  user3
root@ubuntu:/home# less /etc/group
root@ubuntu:/home# userdel group1
root@ubuntu:/home# less /etc/group
root@ubuntu:/home#
```

```
simran:x:1000:user2
sambashare:x:136:
vboxsf:x:999:simran
vboxdrmipc:x:998:
plocate:x:137:
user2:x:1001:
(END)
```

You can check all the users information in /etc/passwd directory

less /etc/passwd

Command to see the user details along with passwd in encrypted form, Modification details etc

less /etc/shadow

Adding a user to a group

gpasswd -a user2 g1

Removing the user from a group

gpasswd -d user2 g1