

ASSIGNMENT-3

Basic Linux Commands

Submitted by :

Jeena Mathew

S2 RMCA A

Roll no : 42

1.usermod

- usermod command is used to change the properties of a user in Linux through the command line

```
jeena@jeena-VirtualBox:~/Networklab$ usermod -u
usermod: option requires an argument -- 'u'
Usage: usermod [options] LOGIN

Options:
  -b, --badnames          allow bad names
  -c, --comment COMMENT   new value of the GECOS field
  -d, --home HOME_DIR     new home directory for the user account
  -e, --expiredate EXPIRE_DATE set account expiration date to EXPIRE_DATE
  -f, --inactive INACTIVE set password inactive after expiration
                           to INACTIVE
  -g, --gid GROUP         force use GROUP as new primary group
  -G, --groups GROUPS     new list of supplementary GROUPS
  -a, --append            append the user to the supplemental GROUPS
                           mentioned by the -G option without removing
                           the user from other groups
  -h, --help             display this help message and exit
  -l, --login NEW_LOGIN   new value of the login name
  -L, --lock             lock the user account
  -m, --move-home        move contents of the home directory to the
                           new location (use only with -d)
  -o, --non-unique        allow using duplicate (non-unique) UID
  -p, --password PASSWORD use encrypted password for the new password
  -R, --root CHROOT_DIR   directory to chroot into
  -P, --prefix PREFIX_DIR prefix directory where are located the /etc/* files
  -s, --shell SHELL       new login shell for the user account
  -u, --uid UID           new UID for the user account
  -U, --unlock            unlock the user account
  -v, --add-subuids FIRST-LAST add range of subordinate uids
  -V, --del-subuids FIRST-LAST remove range of subordinate uids
  -w, --add-subgids FIRST-LAST add range of subordinate gids
  -W, --del-subgids FIRST-LAST remove range of subordinate gids
  -Z, --selinux-user SEUSER new SELinux user mapping for the user account
```

```
jeena@jeena-VirtualBox:~/Networklab$ usermod -u 2000 jeena
usermod: user jeena is currently used by process 654
jeena@jeena-VirtualBox:~/Networklab$
```

2.groupadd

- groupadd command creates a new group account using the values specified on the command line and the default values from the system.

```
jeena@jeena-VirtualBox:~/Networklab$ sudo groupadd study
[sudo] password for jeena:
jeena@jeena-VirtualBox:~/Networklab$
```

3.groups

- print the groups a user is in

#groups alice

```
jeena@jeena-VirtualBox:~/Networklab$ groups jeena
jeena : jeena adm cdrom sudo dip plugdev lpadmin lxd sambashare
jeena@jeena-VirtualBox:~/Networklab$
```

4.groupdel

- groupdel command modifies the system account files, deleting all entries that refer to group. The named group must exist

#groupdel group3

```
jeena@jeena-VirtualBox:~/Networklab$ sudo groupdel study
[sudo] password for jeena:
Sorry, try again.
[sudo] password for jeena:
Sorry, try again.
[sudo] password for jeena:
jeena@jeena-VirtualBox:~/Networklab$
```

5.groupmod

- The groupmod command modifies the definition of the specified group by modifying the appropriate entry in the group database.

#groupmod -n group1 group2

```
jeena@jeena-VirtualBox:~/Networklab$ sudo groupmod -n group1 jeena
jeena@jeena-VirtualBox:~/Networklab$
```

6.chmod

- To change directory permissions of file/ Directory in Linux.
 - chmod +rwx filename to add permissions.
 - chmod -rwx directoryname to remove permissions.
 - chmod +x filename to allow executable permissions.
 - chmod -wx filename to take out write and executable permissions.
 - #chmod u+x test #chmod g-rwx test
 - #chmod o-r tes

```
jeena@jeena-VirtualBox:~/Networklab$ chmod +rwx mk
jeena@jeena-VirtualBox:~/Networklab$
```

7.chown

- The chown command allows you to change the user and/or group ownership of a given file, directory.

```
jeena@jeena-VirtualBox:~/Networklab$ chown jeena lab.txt
jeena@jeena-VirtualBox:~/Networklab$
```

8.id

• id command in Linux is used to find out user and group names and numeric ID's (UID or group ID) of the current user.

• #id

```
jeena@jeena-VirtualBox:~/Networklab$ id
uid=1000(jeena) gid=1000(group1) groups=1000(group1),4(adm),24(cdrom),27(sudo),30(dip),46(plugdev),120(lpadmin),131(lxd),132(sambashare)
jeena@jeena-VirtualBox:~/Networklab$
```

9.ps

• The ps command, short for Process Status, is a command line utility that is used to display or view information related to the processes running in a Linux system.

• PID – This is the unique process ID

• TTY – This is the type of terminal that the user is logged in to

• TIME – This is the time in minutes and seconds that the process has been running

• CMD – The command that launched the process

#ps -a

```
jeena@jeena-VirtualBox:~/Networklab$ ps -a
  PID TTY          TIME CMD
   713 tty2      00:00:12 Xorg
   845 tty2      00:00:00 gnome-session-b
  1557 pts/3      00:00:00 ps
jeena@jeena-VirtualBox:~/Networklab$
```

10.top

- top command is used to show the Linux processes. It provides a dynamic real-time view of the running system

#top -u

```
jeena@jeena-VirtualBox:~/Networklab$ top -u jeena

top - 21:39:19 up 43 min,  1 user,  load average: 0.01, 0.02, 0.03
Tasks: 163 total,  1 running, 162 sleeping,  0 stopped,  0 zombie
%Cpu(s):  3.4 us,  2.4 sy,  0.0 ni, 94.2 id,  0.0 wa,  0.0 hi,  0.0 si,  0.0 st
MiB Mem : 1987.4 total,  817.4 free,  625.3 used,  544.6 buff/cache
MiB Swap:  448.5 total,  448.5 free,  0.0 used. 1203.3 avail Mem

  PID USER      PR  NI   VIRT   RES   SHR  S  %CPU  %MEM     TIME+ COMMAND
  713 jeena     20   0 539676 67896 44408 S   1.7   3.3   0:12.80 Xorg
 1305 jeena     20   0 824156 52068 38980 S   1.7   2.6   0:07.82 gnome-terminal-
  995 jeena     20   0 3714120 332356 124876 S   1.3  16.3   0:38.35 gnome-shell
 1558 jeena     20   0  20496   3804   3240 R   0.3   0.2   0:00.06 top
  654 jeena     20   0  19220  10552  8260 S   0.0   0.5   0:00.68 systemd
  655 jeena     20   0  103372   3452    12 S   0.0   0.2   0:00.00 (sd-pam)
  699 jeena      9  -11 1416884 18640 14772 S   0.0   0.9   0:01.01 pulseaudio
  701 jeena     39  19 593836 24496 16224 S   0.0   1.2   0:00.35 tracker-miner-f
  704 jeena     20   0  248684   7032  6060 S   0.0   0.3   0:00.05 gnome-keyring-d
  708 jeena     20   0  172652   6596  5944 S   0.0   0.3   0:00.02 gdm-x-session
  710 jeena     20   0    8748   6060  3988 S   0.0   0.3   0:00.60 dbus-daemon
  716 jeena     20   0  248320  7712  6756 S   0.0   0.4   0:00.07 gvfsd
  721 jeena     20   0  382060   8172  7292 S   0.0   0.4   0:00.01 gvfsd-fuse
  725 jeena     20   0  326064  11000  9432 S   0.0   0.5   0:00.12 gvfs-udisks2-vo
  747 jeena     20   0  244508   6120  5580 S   0.0   0.3   0:00.01 gvfs-goa-volume
  752 jeena     20   0  554888  36008 30020 S   0.0   1.8   0:00.23 goa-daemon
  804 jeena     20   0  401032  11212  9864 S   0.0   0.6   0:00.04 goa-identity-se
```