LINUX COMMANDS
ASSIGNMENT- 3

Submitted By

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Roll NO: 4

USERMOD

- usermod command is used to change the properties of a user in Linux through the command line
- command-line utility that allows you to modify a user's login information
- #usermod –help
- #usermod –u 2000 Tom

```
user@user-VirtualBox:~$ usermod --help
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/* f
iles
  -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
```

```
user@user-VirtualBox:~$ usermod -u 1000 user
usermod: no changes
user@user-VirtualBox:~$ usermod -u 2000 user
usermod: user user is currently used by process 678
user@user-VirtualBox:~$
```

GROUPADD

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

```
user@user-VirtualBox:~$ sudo groupadd student
[sudo] password for user:
root
```

GROUPS

- print the groups a user is in
- #groups alice

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

GROUPDEL

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

```
user@user-VirtualBox:~$ sudo groupdel student
user@user-VirtualBox:~$
```

GROUPMOD

- The groupmod command modifies the definition of the specified group by modifying the appropriate entry in the group database.
- # groupmod -n group1 group2

```
user@user-VirtualBox:~$ sudo groupmod -n student1 teacher
user@user-VirtualBox:~$
```

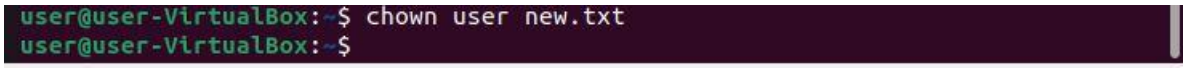
CHMOD

- To change directory permissions of file/ Directory in Linux. #chmod whowhatwhich file/directory
- 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 test 4

```
user@user-VirtualBox:~$ chmod +rwx halo.txt
user@user-VirtualBox:~$
```

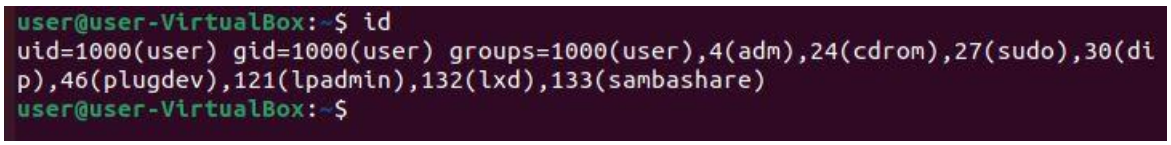
CHOWN

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



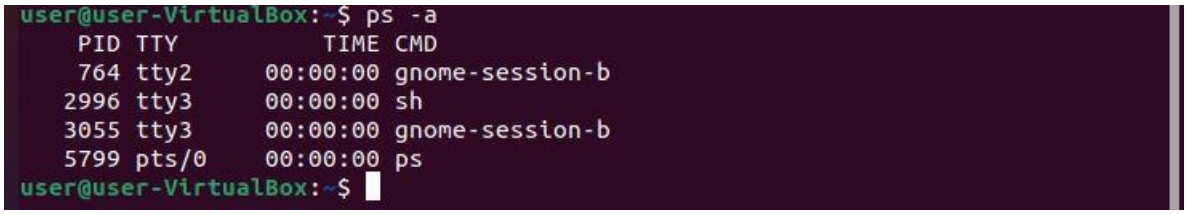
ID

- 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



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



TOP

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

- #top –u rose

```
user@user-VirtualBox:~$ top -u user
```

```
top - 15:28:49 up 52 min,  2 users,  load average: 0.16, 0.07, 0.09
Tasks: 233 total,   1 running, 232 sleeping,   0 stopped,   0 zombie
%Cpu(s):  6.5 us,  3.1 sy,  0.0 ni, 90.4 id,  0.0 wa,  0.0 hi,  0.0 si,  0.0 st
MiB Mem :   3927.3 total,   1899.8 free,   1068.1 used,    959.4 buff/cache
MiB Swap:    925.4 total,    925.4 free,      0.0 used.   2607.1 avail Mem

    PID USER      PR  NI    VIRT    RES    SHR S  %CPU  %MEM     TIME+ COMMAND
    934 user      20   0 4028072 353952 125104 S   5.6   8.8   2:42.86 gnome-+
   4717 user      20   0  411340  49736  37960 S   1.0   1.2   0:07.32 gnome-+
   5800 user      20   0   21580   3924   3324 R   0.3   0.1   0:00.10 top
    678 user      20   0   16200   9700   7416 S   0.0   0.2   0:01.17 systemd
    680 user      20   0  100604   3436     20 S   0.0   0.1   0:00.00 (sd-pa+
    745 user       9 -11   90764   5960   4836 S   0.0   0.1   0:00.11 pipewi+
    746 user       9 -11   82828   5816   4804 S   0.0   0.1   0:00.06 pipewi+
    747 user       9 -11 1417592  19500  14976 S   0.0   0.5   0:02.13 pulsea+
    750 user      39  19  521388  24932  16752 S   0.0   0.6   0:00.39 tracke+
    752 user      20   0  250172   7048   6064 S   0.0   0.2   0:00.19 gnome-+
    756 user      20   0  171604   6204   5688 S   0.0   0.2   0:00.01 gdm-wa+
    759 user      20   0    9608   5900   4040 S   0.0   0.1   0:02.01 dbus-d+
    764 user      20   0  229916  15376  13696 S   0.0   0.4   0:00.08 gnome-+
    767 user      20   0  249732   7924   7048 S   0.0   0.2   0:00.10 gvfsd
    794 user      20   0  379668   5904   5384 S   0.0   0.1   0:00.01 gvfsd-+
    798 user      20   0  325104   9816   8404 S   0.0   0.2   0:00.37 gvfs-u+
    834 user      20   0  322944   7676   6816 S   0.0   0.2   0:00.33 gvfs-a+
    844 user      20   0  246576   6980   6276 S   0.0   0.2   0:00.05 gvfs-g+
    855 user      20   0  245836   6644   6112 S   0.0   0.2   0:00.04 gvfs-g+
    865 user      20   0  567912  41372  34760 S   0.0   1.0   0:00.20 goa-da+
    878 user      20   0  100964   4864   4428 S   0.0   0.1   0:00.00 gnome-+
    887 user      20   0  665064  17708  14928 S   0.0   0.4   0:00.33 gnome-+
```