

- 1. 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

```
antonyscaria@DESKTOP-IU4O5JG: ~
                                                                                                                             X
                                 $ 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
     --expiredate EXPIRE_DATE set account expiration date to EXPIRE_DATE
     --inactive INACTIVE set password inactive after expiration
                                  to INACTIVE
                                  force use GROUP as new primary group
new list of supplementary GROUPS
  -g, --gid GROUP
  -G, --groups GROUPS
  -a, --append
                                   append the user to the supplemental GROUPS
                                   mentioned by the -G option without removing
                                   the user from other groups
                                  display this help message and exit
new value of the login name
 -h, --help
  -1, --login NEW_LOGIN
     --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
-p, --password PASSWORD
---root CHROOT_DIR
                                  allow using duplicate (non-unique) UID
 -o, --non-unique
                                  use encrypted password for the new password
                                  directory to chroot into
                                  prefix directory where are located the /etc/* files new login shell for the user account
 -P, --prefix PREFIX_DIR
     --shell SHELL
  -u, --uid UID
                                  new UID for the user account
     --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
antonyscaria@DESKTOP-IU405JG:~$ usermod -u 2000 antonyscaria
usermod: user antonyscaria is currently used by process 8
antonyscaria@DESKTOP-IU4O5JG:~$
```

- 2. 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

```
antonyscaria@DESKTOP-IU405JG:~$ sudo groupadd student [sudo] password for antonyscaria: antonyscaria@DESKTOP-IU405JG:~$ _
```

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

```
antonyscaria@DESKTOP-IU405JG:~$ groups antonyscaria
antonyscaria: antonyscaria adm dialout cdrom floppy sudo audio dip video plugdev netdev
antonyscaria@DESKTOP-IU405JG:~$ __
```

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

```
antonyscaria@DESKTOP-IU4O5JG:~$ sudo groupdel student antonyscaria@DESKTOP-IU4O5JG:~$
```

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

# groupmod -n group1 group2

antonyscaria@DESKTOP-IU405JG:~\$ sudo groupmod -n student2 student1 antonyscaria@DESKTOP-IU405JG:~\$

### 6. 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

```
antonyscaria@DESKTOP-IU405JG:/mnt/c/Users/antony/Downloads$ chmod +rwx quest.txt
antonyscaria@DESKTOP-IU405JG:/mnt/c/Users/antony/Downloads$ _
```

#### 7. chown

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

#chown Tom Test

```
antonyscaria@DESKTOP-IU405JG:/mnt/c/Users/antony/Downloads$ chown antonyscaria capital.txt antonyscaria@DESKTOP-IU405JG:/mnt/c/Users/antony/Downloads$ __
```

#### 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

```
antonyscaria@DESKTOP-IU405JG:/mnt/c/Users/antony/Downloads$ id
uid=1000(antonyscaria) gid=1000(antonyscaria) groups=1000(antonyscaria),4(adm),20(dialout),24(cdrom),25(floppy),27(sudo),29(audio),30(dip),44(video),46(plugdev),117(netdev)
antonyscaria@DESKTOP-IU405JG:/mnt/c/Users/antony/Downloads$ _
```

# 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 5

```
antonyscaria@DESKTOP-IU405JG:/mnt/c/Users/antony/Downloads$ ps -a
PID TTY TIME CMD
8 tty1 00:00:00 bash
85 tty1 00:00:00 ps
antonyscaria@DESKTOP-IU405JG:/mnt/c/Users/antony/Downloads$
```

## 10. top

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

#top -u rose

top - 20:13:55 up 37 min, 0 users, load average: 0.52, 0.58, 0.59

Tasks: 4 total, 1 running, 3 sleeping, 0 stopped, 0 zombie

%Cpu(s): 0.6 us, 0.5 sy, 0.0 ni, 98.8 id, 0.0 wa, 0.1 hi, 0.0 si, 0.0 st

MiB Mem : 7577.4 total, 3249.3 free, 4104.1 used, 224.0 buff/cache

MiB Swap: 23552.0 total, 23319.9 free, 232.1 used. 3342.7 avail Mem

PID USER	PR	NI	VIRT	RES	SHR S	%CPU	%MEM	TIME+ COMMAND
8 antonys+	20	0	18080	3584	3468 S	0.0	0.0	0:00.55 bash
87 antonys+	20	0	18928	2196	1524 R	0.0	0.0	0:00.04 top

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