Advanced Computer Networks Lab

Submitted by,

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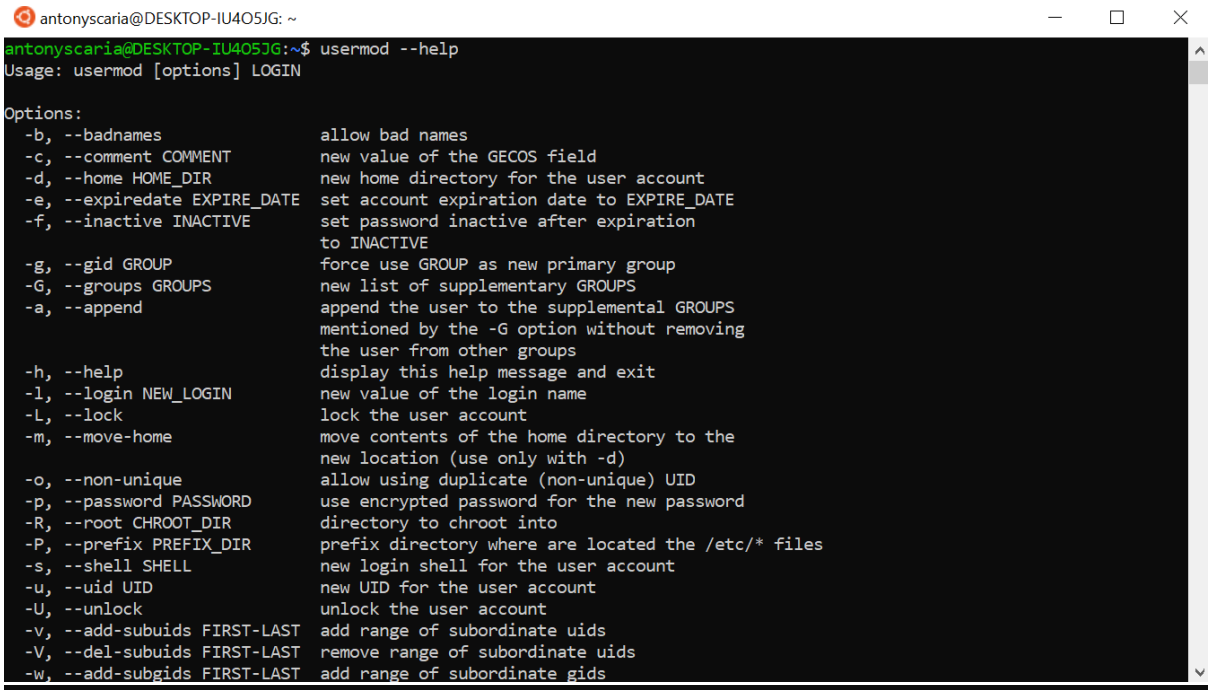
MCA A Batch

Roll No:23

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:~$ 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-IU4O5JG:~$ sudo groupadd student
[sudo] password for antonyscaria:
antonyscaria@DESKTOP-IU4O5JG:~$
```

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

```
antonyscaria@DESKTOP-IU4O5JG:~$ groups antonyscaria
antonyscaria : antonyscaria adm dialout cdrom floppy sudo audio dip video plugdev netdev
antonyscaria@DESKTOP-IU4O5JG:~$
```

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:~$
```

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

```
antonyscaria@DESKTOP-IU4O5JG:~$ sudo groupmod -n student2 student1
antonyscaria@DESKTOP-IU4O5JG:~$
```

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-IU4O5JG:/mnt/c/Users/antony/Downloads$ chmod +rwx quest.txt
antonyscaria@DESKTOP-IU4O5JG:/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-IU4O5JG:/mnt/c/Users/antony/Downloads$ chown antonyscaria capital.txt
antonyscaria@DESKTOP-IU4O5JG:/mnt/c/Users/antony/Downloads$
```

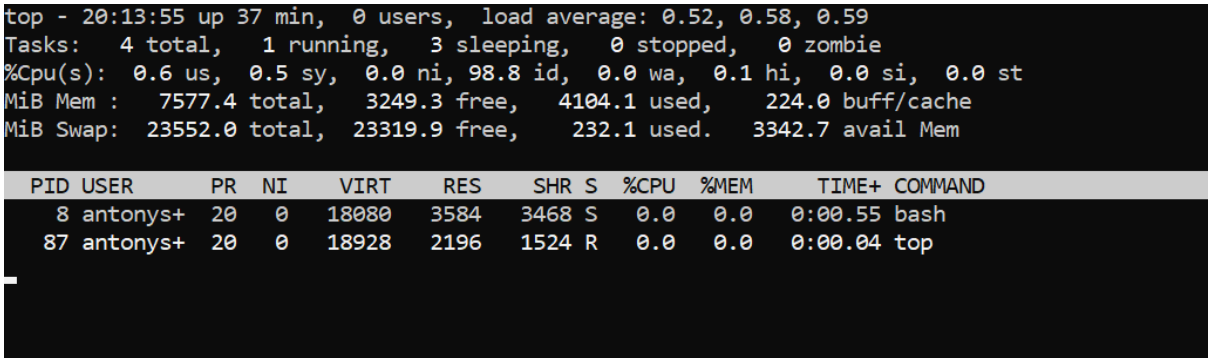
8. id
   • id command in Linux is used to find out user and group names and numeric ID's (UID or group ID) of the current user.
   • #id

```
antonyscaria@DESKTOP-IU4O5JG:/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-IU4O5JG:/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-IU4O5JG:/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-IU4O5JG:/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