## Experiment No- 04

## **Aim: Execution of User Management Commands**

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Class	D10A
Subject	Unix Lab
Lab Outcome	LO3: Apply Unix commands for system administrative tasks such as file system management and user management.
Date of Performance/ Submission	19/1/2022-26/1/2022

**<u>Aim:</u>** To execute user management commands of UNIX.

**Introduction**: User management includes everything from creating a user to deleting a user on your system. Graphical tools are easy and suitable for new users, as it makes sure you'll not run into any trouble. Command line tools include commands like useradd, userdel, passwd, etc. These are mostly used by the server administrators.

## **Theory:**

1. who - The Linux "who" command lets you display the users currently logged in to your UNIX or Linux operating system. Whenever a user needs to know about how many users are using or are logged-in into a particular Linux-based operating system, he/she can use the "who" command to get that information.

```
manav@manav-virtual-machine:~ Q = - □ ×

manav@manav-virtual-machine:~$ who
manav :0 2022-02-14 14:17 (:0)
manav@manav-virtual-machine:~$
```

2. whoami - As its name suggests, the whoami command prints the user name of the effective user ID. In other words, it displays the name of the currently logged-in user.



3. login - On UNIX operating systems, the login command begins a new login session on the system.

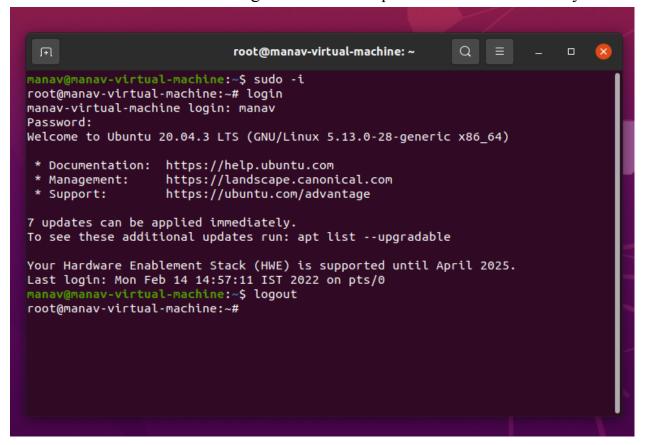
```
manav@manav-virtual-machine:~$ sudo -i
root@manav-virtual-machine:~# login
manav-virtual-machine login: manav
Password:
Welcome to Ubuntu 20.04.3 LTS (GNU/Linux 5.13.0-28-generic x86_64)

* Documentation: https://help.ubuntu.com
* Management: https://landscape.canonical.com
* Support: https://ubuntu.com/advantage

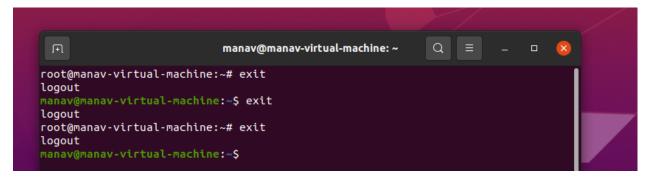
7 updates can be applied immediately.
To see these additional updates run: apt list --upgradable

Your Hardware Enablement Stack (HWE) is supported until April 2025.
Last login: Mon Feb 14 14:57:11 IST 2022 on pts/0
manav@manav-virtual-machine:~$
```

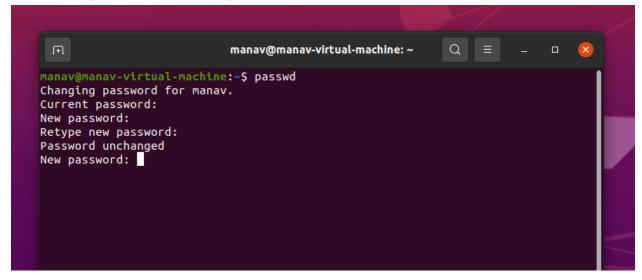
4. logout - logout command allows you to programmatically logout from your session. causes the session manager to take the requested action immediately.



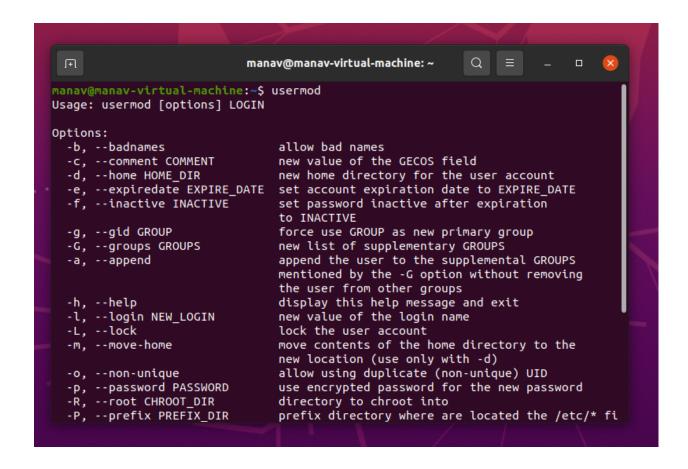
5. exit - exit command in linux is used to exit the shell where it is currently running. It takes one more parameter as [N] and exits the shell with a return of status N. If n is not provided, then it simply returns the status of last command that is executed.



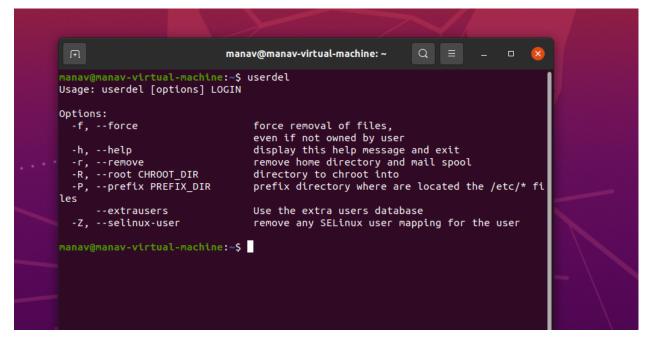
6. passwd - The passwd command changes passwords for user accounts. A normal user may only change the password for their own account, while the superuser may change the password for any account. passwd also changes the account or associated password validity period.



7. usermod - usermod command or modify user is a command in Linux that is used to change the properties of a user in Linux through the command line. After creating a user we have to sometimes change their attributes like password or login directory etc. so in order to do that we use the Usermod command.



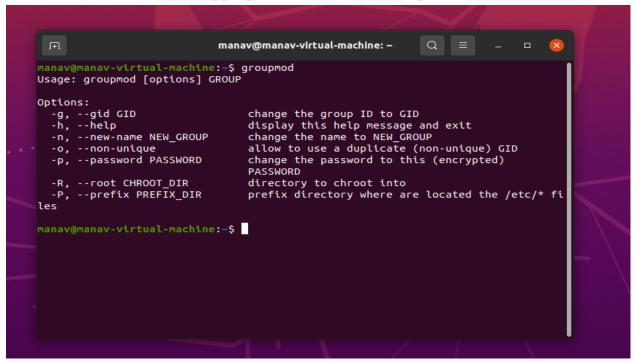
8. userdel - userdel command in Linux system is used to delete a user account and related files. This command basically modifies the system account files, deleting all the entries which refer to the username LOGIN.



9. groupadd - groupadd command creates a new group account using the values specified on the command line and the default values from the system. The new group will be entered into the system files as needed.

```
manav@manav-virtual-machine: ~
                                                                        Q ≡
manav@manav-virtual-machine:~$ groupadd
Usage: groupadd [options] GROUP
Options:
                                       exit successfully if the group already exists, and cancel -g if the GID is already used use GID for the new group display this help message and exit
  -f, --force
  -g, --gid GID
  -h, --help
  -K, --key KEY=VALUE
                                       override /etc/login.defs defaults allow to create groups with duplicate
      --non-unique
                                       (non-unique) GID
  -p, --password PASSWORD
                                       use this encrypted password for the new group
  -г, --system
                                      create a system account
       --root CHROOT_DIR
                                       directory to chroot into
       --prefix PREFIX_DIR
                                      directory prefix
       --extrausers
                                       Use the extra users database
manav@manav-virtual-machine:~$
```

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



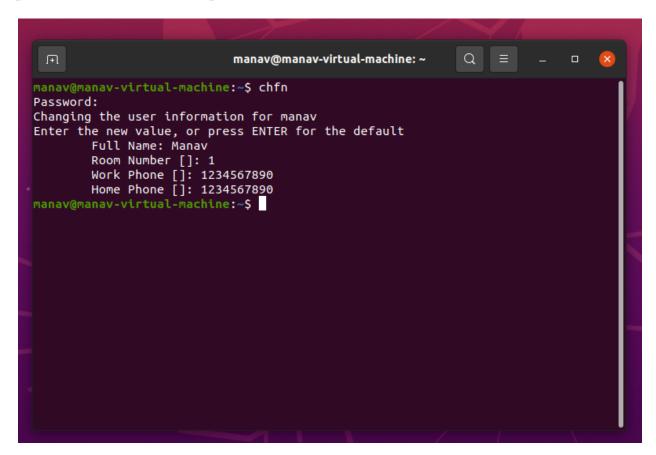
11. chown - Linux chown command is used to change a file's ownership, directory, or symbolic link for a user or group. The chown stands for change owner. In Linux ,each file is associated with a corresponding owner or group.

```
manav@manav-virtual-machine: ~
manav@manav-virtual-machine:~$ chown --help
Usage: chown [OPTION]... [OWNER][:[GROUP]] FILE...
or: chown [OPTION]... --reference=RFILE FILE...
Change the owner and/or group of each FILE to OWNER and/or GROUP.
With --reference, change the owner and group of each FILE to those of RFILE.
   -c, --changes
                                    like verbose but report only when a change is made
   -f, --silent, --quiet suppress most error messages
   -v, --verbosé
                                    output a diagnostic for every file processed
                                    affect the referent of each symbolic link (this is
the default), rather than the symbolic link itself
affect symbolic links instead of any referenced file
         --dereference
   -h, --no-dereference
                                     (useful only on systems that can change the ownership of a symlink)
         --from=CURRENT_OWNER:CURRENT_GROUP
                                     change the owner and/or group of each file only if
         its current owner and/or group on each rice only it its current owner and/or group match those specified here. Either may be omitted, in which case a match is not required for the omitted attribute
--no-preserve-root do not treat '/' specially (the default)
                                    fail to operate recursively on '
         --preserve-root
                                    use RFILE's owner and group rather than
         --reference=RFILE
                                     specifying OWNER:GROUP values
                                    operate on files and directories recursively
   -R, --recursive
```

12. chage - The chage command changes the number of days between password changes and the date of the last password change. This information is used by the system to determine when a user must change their password.

```
Q
                           manav@manav-virtual-machine: ~
manav@manav-virtual-machine:~$ chage
Usage: chage [options] LOGIN
Options:
  -d, --lastday LAST_DAY
                                set date of last password change to LAST_DAY
  -E, --expiredate EXPIRE_DATE set account expiration date to EXPIRE_DATE
  -h, --help
                                display this help message and exit
  -i, --iso8601
                                use YYYY-MM-DD when printing dates
  -I, --inactive INACTIVE
                                set password inactive after expiration
                                to INACTIVE
 -l, --list
                                show account aging information
 -m, --mindays MIN_DAYS
                                set minimum number of days before password
                                change to MIN_DAYS
 -M, --maxdays MAX_DAYS
                                set maximum number of days before password
                                change to MAX_DAYS
  -R, --root CHROOT_DIR
                                directory to chroot into
  -W, --warndays WARN_DAYS
                                set expiration warning days to WARN_DAYS
manav@manav-virtual-machine:~$
```

13. chfn - The chfn command changes user fullname, office room number, office phone number, and home phone number information for a user's account.



**Conclusion**: We have understood how to execute the user management commands of UNIX.