Operating Systems 2

Section 1

Basic Linux terminal commands

- A- File management/manipulation commands:
 - Pwd: printing current working directory
 This command show the directory we are currently working at.

```
quru99@VirtualBox:~$ pwd
/home/guru99
guru99@VirtualBox:~$
```

present working directory

2. **Cd /tmp:** change directory to the directory we pass after it, in this case tmp.

```
guru99@VirtualBox:~$ cd /tmp
guru99@VirtualBox:/tmp$ cd /bin
guru99@VirtualBox:/bin$ cd /usr
guru99@VirtualBox:/usr$ cd /tmp
guru99@VirtualBox:/tmp$
```

Cd ~: the cd tiled goes to the home directory.

Cd /: cd forward slash goes to the root directory.

Cd /dev/cpu: we can change to subdirectory inside a directory in one command.

Cd .. : cd double dots return back one level.

3. **Relative path:** here we write the full path of a file after the cd command like that

Cd /home/fue/Music

Absolute path: here we move directly to the directory name without **providing the whole path.**

4. Mv mydirectory newdirectory: rename the file file1 as file2.

```
home@VirtualBox:~$ mv mydirectory newdirectory
home@VirtualBox:~$ ls

Desktop Downloads Music Pictures Templates
Documents examples.desktop newdirectory Public Videos
home@VirtualBox:~$
```

B- Listing:

1. Ls: listing the contents of the current directory

```
guru99@VirtualBox:~$ ls
Desktop Downloads Music Public Videos
Documents examples.desktop Pictures Templates
guru99@VirtualBox:~$
```

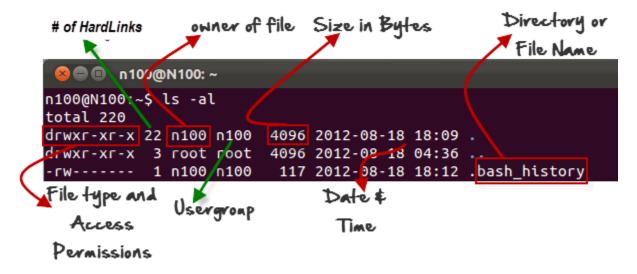
2. Ls –R: here we pass an option to the command which list the directories and any subdirectories inside them.

```
guru99@VirtualBox:~$ ls -R
.:
Desktop
           Downloads
                             Music
                                       Public
                                                   Videos
Documents examples.desktop Pictures Templates
./Desktop:
./Documents:
./Downloads:
./Music:
English
./Music/English:
Rock Trans
./Music/English/Rock:
Test.mp3
./Music/English/Trans:
./Pictures:
./Public:
./Templates:
./Videos:
guru99@VirtualBox:~$
```

3. Ls –a: here we pass an option to the list command which shows all the files include hidden ones with a dot at the begging of their names.

```
quru99@VirtualBox:~$ ls -a
                .dmrc
                                  .ICEauthority
                                                     sample
               Documents
                                                     sample1
                                  .local
.bash_history
                                                     sample2
               Downloads
                                  .mission-control
.bash_logout
               examples.desktop
                                  Music
                                                     Templates
.bashrc
                .gconf
                                  Pirtures
                                                     .thumbnails
.cache
                                  .profile
                                                     Videos
                .gnome2
               .gstreamer-0.10
                                  Public
                                                     .Xauthority
 confia
                .gtk-bookmarks
                                  .pulse
                                                     .xsession-erro
                .gvfs
                                  .pulse-cookie
Desktop
guru99@VirtualBox:~$
```

4. Ls –al: list all files including the access type, owner, group, size, and date-time.



C- Directories management commands:

1. Mkdir: create new directory taking the name of the directory after it.

```
home@VirtualBox:~$ mkdir mydirectory
home@VirtualBox:~$ ls

Desktop Downloads Music Pictures Templates

Documents examples.desktop mydirectory Public Videos
home@VirtualBox:~$
```

- **2. Rmdir**: remove directory, but it must be empty or an error message will be shown.
- 3. My dir1 dir2: as in files, it rename the directories from dir1 to dir2.

D- Creating and Writing to files:

- 1. Cat > file1: create a file named file1 if not exist, and open it for writing in, ctrl+d to exit.
- 2. Cat file1: show the content of file1.
- 3. Cat file1 file2 > file3: concatenate the content of file1 and file2 and put them in file3.

E- General commands:

- 1. History: show all the command we wrote within the terminal session.
- 2. Clear: clear the content of the terminal.
- 3. Man: show help about any comment wrote behind it.

Refrence: Basic Linux/Unix Commands with Examples, Guru99

https://www.guru99.com/must-know-linux-commands.html