# Networking and System Administration Lab

Submitted By ,

Ashtami Prasad

MCA Regular

Batch A

Roll no:29

# Basic Linux Commands

## 1) pwd (Print Working Directory)

 - Used to find out the path of the current working directory

 - Absolute path which is basically a path of all the directories that start with a forward slash(/)

-   Relative path defined as the path related to the present working directory from root directory

```
ashtami@ashtami-VirtualBox:~$ pwd
/home/ashtami
```

## 2) history

 **-** To review the commands you have entered before.

```
ashtami@ashtami-VirtualBox:~$ history
    1  pwd
    2  history
ashtami@ashtami-VirtualBox:~$
```

## 3)man

 -  shows the manual instruction of the tail command.

 - man man  to start learning about man utility.

**4) cd**

- To navigate througj the linux files and directories. - cd .. (to move one directory up) - cd  (to go straight to the home folder) - cd - (to move to a previous directory)

```
ashtami@ashtami-VirtualBox:~$ cd Desktop
ashtami@ashtami-VirtualBox:~/Desktop$
```

05) **ls**

-  Used to view the content of the directory.

- ls -R (Will list all the files in the subdirectory).

 - ls -l  (long listing)

– ls -a (will show hidden files)

– ls -al (will list all the files and directories with detailed information like the permissions,size,owners.)

 - ls -t (list files sorted in the order of last modified)

- ls -r  (option will reverse the natural sorting order.usually used in combination with order switches such as ls -tr.This will reverse the time wise listing.

```
ashtami@ashtami-VirtualBox:~/Desktop$ ls -R
.:
ashtami@ashtami-VirtualBox:~/Desktop$ ls -L
ashtami@ashtami-VirtualBox:~/Desktop$ ls -a
.  ..
ashtami@ashtami-VirtualBox:~/Desktop$ ls -al
total 8
drwxr-xr-x  2 ashtami ashtami 4096 Jun 13 07:29 .
drwxr-xr-x 15 ashtami ashtami 4096 Jun 13 07:36 ..
```

## 6) **mkdir**

- to make a new directory.

 - mkdir – p (to create a directory in between two existing directories.

```
ashtami@ashtami-VirtualBox:~/Desktop$ mkdir mca
ashtami@ashtami-VirtualBox:~/Desktop$ mkdir -p mca/2021/newfile
ashtami@ashtami-VirtualBox:~/Desktop$ 
```

## 7) **rmdir**

-to delete a directory.(onlu allows you to delete empty directories).

```
ashtami@ashtami-VirtualBox:~/Desktop$ rmdir/root/Desktop/programs/rmca/networki
ng
```

## 8) **touch**

- to create a blank  new file  .

```
ashtami@ashtami-VirtualBox:~/Desktop$ touch /root/Desktop/programs/mca/example.
php
```

## 9) rm

- to delete directories and the contents within them .

- rm -r  (to delete directory) .

- rm filename  (to remove a file).

```
ashtami@ashtami-VirtualBox:~/Desktop$ rm example.php
```

## 10) cat

-  list the content of a file

 -  cat >filename (create a new file)

- cat filename1 filename2>filename3  ( join two files and store the output in the third file)

 - cat filename | tr a-z A-Z >output.txt  (to convert a file to upper or lower case)

-  cat >>myfile  ( insert data to a file)

```
ashtami@ashtami-VirtualBox:~/Desktop$ cat >file2.txt
ashtami
insert
delete
how are you
```