

Linux Commands

whoami : gives the user name

clear : clears the screen

cd ~ : takes to the home directory from anywhere

cd - : takes to the last visited directory

ls : it lists files and directories

ls -l : gives long listing of files based on ASCII values of file names (gives more details like permission, number of links, owner, group, access, size, last date modified, file name)

ls -lt : gives a long listing of files based on time. Newest comes first.

ls -ltr : gives a long listing of files based on time. Oldest comes first.

ls -lr : gives a long listing of files based on descending ASCII values of file names.

ls -lR: Recursive long listing. Go inside each folder, and gives the files and directories names

ls -R : recursive without long listing

ls -a : list all the files including hidden files.

ls -R -a : recursively lists all the folders and files including the hidden ones

The above command can be written in several ways:

i) **ls -R -a** ii) **ls -Ra** iii) **ls -aR** iv) **ls -a -R**

All the 4 commands will give the same result and ordering does not matter.

touch filename : it creates an empty file with name filename

There are 3 types of permissions:

r - read(it has a weightage of 4)

w - write(it has a weightage of 2)

x - execute(it has a weightage of 1)

There are three types of users whom permission is given:

i) **owner**

ii) **group**

iii) **other**

chmod 777 file1 : gives all permission to everyone for file1. chmod is used to change permission.

chmod 764 file1: has the following meaning -

i) read, write, execute permission to owner(since $4 + 2 + 1 = 7$)

ii) read write permission to group($4 + 2 = 6$)

iii) read permission to other(4)

Similarly, **chmod 742 file1**: has the following meaning -

i) read, write, execute permission to owner(since $4 + 2 + 1 = 7$)

ii) read permission to group(4)

iii) execute permission to other(2)

cat file1: it shows the content of the file1

mkdir directory_name : it creates directory with name directory_name

rmdir directory_name : It removes/deletes the directory with name directory_name. It has one limitation, it can only delete an empty directory.

rm file1 : removes/delete file1

If we want to delete a directory which is not empty, we can use the following command:

rm -R directory_name: this will delete directory directory_name which is not empty.

cp location1 location2: it copies files and directory from location1 to location2

cp -R directory1 directory2 : recursively copy directory1 to directory2

mv location1 location2: it moves files and directory from location1 to location2. It uses cut paste procedure unlike cp command which uses copy paste procedure.

If we want to create a file with name samplefile.txt, write some content inside it and then save it, we can follow the following approach:

- i) **vi samplefile.txt** : this will open a file with name samplefile.txt. If not present, it will create it
- ii) **i** : this will allow us insert texts inside samplefile.txt
- iii) **esc** : escape button helps to escape out of insert mode
- iv) **:wq** : to save and exit the file

head file1 : it gives first 10 lines of file1

tail file1 : it gives last 10 lines of file1

cat file1: gives entire content of the file

history : lists all the commands that has been previously executed

wc file1 : gives word count of file1

cat > samplefile.txt : helps in creating or overwriting existing file samplefile.txt

ctrl + D : to save the file

cat >> samplefile.txt : opens the samplefile.txt in append mode

Cat file1 file2 >> file3 : takes the content from file1 and file2, and append it to file3

grep Abhishek * : search for word Abhishek in all the files present in the current directory