

Drishya M
CS S4
Roll No : 66

Exp No :1
Date : 08/02/2019
Aim : Basic Linux Commands

Command:
Purpose:To make directory
Usage:mkdir dirname
Sample i/p & o/p:s1766@linux-server:~\$ mkdir s4cs66
s1766@linux-server:~\$ cd s4cs66
s1766@linux-server:~\$ ls
s4cs66

s1766@linux-server:~/s4cs66\$ mkdir /home/us/s17/s1766/s4cs66/desktop
s1766@linux-server:~/s4cs66\$ ls
csS466 desktop file1 file2 S4_66

Command:
Purpose:To create file
Usage:nano filename
Sample i/p & o/p:s1766@linux-server:~/s4cs66\$ nano file0
s1766@linux-server:~/s4cs66\$ ls
file0

Command:
Purpose:To display files in directory
Usage:ls
Sample i/p & o/p:s1766@linux-server:~\$ mkdir direct
s1766@linux-server:~\$ ls
direct s4cs s4cs66

Command:
Purpose:To move file/directory
Usage:mv name destination
Sample i/p & o/p:s1766@linux-server:~\$ mv s4cs direct
s1766@linux-server:~\$ cd direct
s1766@linux-server:~/direct\$ ls
s4cs

Command:
Purpose:To display file content
Usage:cat name
Sample i/p & o/p:s1766@linux-server:~/s4cs66\$ nano file1
s1766@linux-server:~/s4cs66\$ cat file1
a
b
c
d
e
f

g
h
i
j
k
l

Command:

Purpose:To display top 10 lines

Usage:head filename

Sample i/p & o/p:s1766@linux-server:~/s4cs66\$ head file1

a
b
c
d
e
f
g
h
i
j

Command:

Purpose:To display top m lines

Usage:head name -n m

Sample i/p & o/p:s1766@linux-server:~/s4cs66\$ head file1 -n 3

a
b
c

Command:

Purpose:To display last 10 line

Usage:tail name

Sample i/p & o/p:s1766@linux-server:~/s4cs66\$ tail file1

d
e
f
g
h
i
j
k
l

Command:

Purpose:Show path

Usage:pwd

Sample i/p & o/p:s1766@linux-server:~/s4cs66\$ pwd
/home/us/s17/s1766/s4cs66

Command:

Purpose:To search string in file

Usage:grep string filename

Sample i/p & o/p:s1766@linux-server:~/s4cs66\$ grep -i "a" file2
aef
ADS
axc
AZV

Command:
Purpose:To display system information
Usage:uname
Sample i/p & o/p:s1766@linux-server:~/s4cs66\$ uname
Linux
s1766@linux-server:~/s4cs66\$ uname -a
Linux linux-server 3.13.0-32-generic #57-Ubuntu SMP Tue Jul 15 03:51:08 UTC 2014 x86_64
x86_64 x86_64 GNU/Linux

Command:
Purpose:To duplicate string
Usage:echo string
Sample i/p & o/p:s1766@linux-server:~/s4cs66\$ echo HELLO
HELLO

Command:
Purpose:To delete file /folder
Usage:rm file,rm -r folder
Sample i/p & o/p:s1766@linux-server:~/s4cs66\$ ls
csS466 desktop file1 file2 S4_66
s1766@linux-server:~/s4cs66\$ rm -r desktop
s1766@linux-server:~/s4cs66\$ ls
csS466 file1 file2 S4_66
s1766@linux-server:~/s4cs66\$ rm file4
s1766@linux-server:~/s4cs66\$ ls
csS466 file1 file2 S4_66

Command:
Purpose:Using pipe to connect two command
Usage:comd 1 | comd 2
Sample i/p & o/p:s1766@linux-server:~/s4cs66\$ cat file2 | grep ^a
aef
axc
s1766@linux-server:~/s4cs66\$ cat file2 | grep c\$
zxc
axc

Command:
Purpose:To count no. of lines,words or characters in file
Usage:wc -l
Sample i/p & o/p:s1766@linux-server:~/s4cs66\$ cat file2 | grep ^a | wc -l
2

Command:
Purpose:List all files and details
Usage:ls -la
Sample i/o & o/p:s1766@linux-server:~/s4cs66\$ ls -la

```
total 24
drwxrwxr-x 2 s1766 s1766 4096 Feb 5 21:26 .
drwx----- 5 s1766 s1766 4096 Feb 5 20:26 ..
-rw-rw-r-- 1 s1766 s1766 1652 Feb 5 21:38 csS466
-rw-rw-r-- 1 s1766 s1766 25 Feb 5 20:52 file1
-rw-rw-r-- 1 s1766 s1766 25 Feb 5 21:00 file2
-rw-rw-r-- 1 s1766 s1766 93 Feb 5 20:31 S4_66
```

Command:

Purpose:To display date

Usage:date

Sample i/o & o/p:s1766@linux-server:~/s4cs66\$ date

Tue Feb 5 21:41:10 IST 2019

Command:

Purpose:To sort file

Usage:sort filename

Sample i/o & o/p:s1766@linux-server:~/s4cs66\$ sort file4

```
aadi
anu
babisha
manu
reethu
sinu
sonu
thanu
vivi
```

Command:

Purpose:to display directory in tree format

Usage:tree

Sample i/o & o/p:[krishna@localhost drish]\$ touch file

[krishna@localhost drish]\$ tree

```
├── file
```

0 directories, 1 file

Command:

Purpose:To copy file/folder

Usage:cp file,cp -r folder

Sample i/o & o/p:[krishna@localhost ~]\$ touch tst

[krishna@localhost ~]\$ cp tst ./drish

[krishna@localhost ~]\$ cd drish

[krishna@localhost drish]\$ ls

file tst

Command:

Purpose:to change permission of file

Usage:chmod +/- {w,r,x} file

Sample i/o & o/p:[krishna@localhost drish]\$ ls -la tst

-rw-rw-r--. 1 krishna krishna 0 Feb 8 23:31 tst

```
[krishna@localhost drish]$ chmod -r tst
[krishna@localhost drish]$ ls -la tst
--w--w----. 1 krishna krishna 0 Feb  8 23:31 tst
```

Command:

Purpose:to access url

Usage:curl url

Sample i/o & o/p:[krishna@localhost ~]\$ curl www.cet.ac.in

```
<html>
<head><title>301 Moved Permanently</title></head>
<body bgcolor="white">
<center><h1>301 Moved Permanently</h1></center>
<hr><center>nginx/1.10.3 (Ubuntu)</center>
</body>
</html>
```

Command:

Purpose:To download file

Usage:wget url

Sample i/o & o/p:[krishna@localhost ~]\$ wget www.cet.ac.in

```
--2019-02-08 23:37:16-- http://www.cet.ac.in/
Resolving www.cet.ac.in (www.cet.ac.in)... 14.139.171.166
Connecting to www.cet.ac.in (www.cet.ac.in)|14.139.171.166|:80... connected.
HTTP request sent, awaiting response... 301 Moved Permanently
Location: https://www.cet.ac.in/ [following]
--2019-02-08 23:37:16-- https://www.cet.ac.in/
Connecting to www.cet.ac.in (www.cet.ac.in)|14.139.171.166|:443... connected.
HTTP request sent, awaiting response... 200 OK
Length: unspecified [text/html]
Saving to: 'index.html'
```

```
index.html      [ <=>      ] 60.30K  106KB/s  in 0.6s
```

```
2019-02-08 23:37:19 (106 KB/s) - 'index.html' saved [61747]
```

```
[krishna@localhost ~]$ ls
```

```
Desktop  Downloads file      Music  Public Templates Videos
Documents drish   index.html Pictures s4_38  tst
```

Command:

Purpose:To connect to ip using ftp

Usage:ftp ip address

Sample i/o & o/p:[krishna@localhost ~]\$ ftp 192.168.99.6

```
^Z
```

```
[1]+  Stopped                  ftp 192.168.99.6
```

Command:

Purpose:to login to remote machine

Usage:ssh host

Sample i/o & o/p:[krishna@localhost ~]\$ ssh drish

```
ssh: Could not resolve hostname drish: Name or service not known
```

Command:

Purpose:To store command result to file

Usage:command > file

Sample i/o & o/p:[krishna@localhost ~]\$ echo Im Drishya > file

[krishna@localhost ~]\$ cat file

Im Drishya

Command:

Purpose:To append to file , command result

Usage:command >> file

Sample i/o & o/p:[krishna@localhost ~]\$ echo Studying in cet >> file

[krishna@localhost ~]\$ cat file

Im Drishya

Studying in cet

Command:

Purpose:To take input to command from file

Usage:command < file

Sample i/o & o/p:[krishna@localhost ~]\$ cat < file

Im Drishya

Studying in cet

Command:

Purpose:to list background jobs

Usage:jobs

Sample i/o & o/p:[krishna@localhost ~]\$ jobs

[1]- Stopped ftp 192.168.99.6

[2]+ Stopped ftp 192.168.99.5

Command:

Purpose:Bring background job to front

Usage:fg

Sample i/o & o/p:[krishna@localhost ~]\$ fg

ftp 192.168.99.5

ftp: connect: Connection timed out

ftp> ^Z

[2]+ Stopped ftp 192.168.99.5

Command:

Purpose:Kill a background jobs

Usage:kill %job no.

Sample i/o & o/p:[krishna@localhost ~]\$ kill %2

[2]- Terminated ftp 192.168.99.5

Command:

Purpose:To change user owner of file

Usage:chown owner filename

Sample i/o & o/p:

[krishna@localhost ~]\$ chown fellow test

chown: invalid user: 'fellow'