Basic linux commands:

- 1.mkdir-make a new directory
- 2.pwd-present working directory
- 3.touch-creating a file
- 4.ls-list the files in a directory

```
vvdn-user@vvdn-user:~/Documents/dir1

vvdn-user@vvdn-user:-\Documents\
vvdn-user@vvdn-user:-\Documents\
pwd/home/vvdn-user:-\Documents\
pwd/home/vvdn-user:-\Documents\
vvdn-user@vvdn-user:-\Documents\
vvdn-user@vvdn-user\
vvdn-user@vvdn-user\
vvdn-user@vvdn-user\
vvdn-user@vvdn-user\
vvdn-user\
vvdn-user\
vvdn-user\
vvdn-user\
v
```

5.cp-copying a file

6.mv-moving a file location

```
vvdn-user@vvdn-user:~/Documents/dir1$ touch sample.txt
vvdn-user@vvdn-user:~/Documents/dir1$ cp sample.txt /home/vvdn-user/Documents
vvdn-user@vvdn-user:~/Documents/dir1$ cd Documents/
bash: cd: Documents/: No such file or directory
vvdn-user@vvdn-user:~/Documents/dir1$ cd ..
vvdn-user@vvdn-user:~/Documents ls
dir1 sample.txt
vvdn-user@vvdn-user:~/Documents$ mv sample.txt /home/vvdn-user/Documents/dir1/
vvdn-user@vvdn-user:~/Documents$ cd dir1/
vvdn-user@vvdn-user:~/Documents/dir1$ ls
sample1.txt sample2.txt sample.txt
```

7.rmdir-removing a directory

8.rm-removing a file from a directory

```
vvdn-user@vvdn-user:~/Documents/dir1$ mkdir dir2
vvdn-user@vvdn-user:-/Documents/dir1$ ls
dir2 sample1.txt sample2.txt sample.txt
vvdn-user@vvdn-user:-/Documents/dir1$ rmdir dir2
vvdn-user@vvdn-user:-/Documents/dir1$ ls
sample1.txt sample2.txt sample.txt
vvdn-user@vvdn-user:-/Documents/dir1$ rm sample
rm: cannot remove 'sample': No such file or directory
vvdn-user@vvdn-user:-/Documents/dir1$ rm -r sample
rm: cannot remove 'sample': No such file or directory
vvdn-user@vvdn-user:-/Documents/dir1$ rm sample.txt
vvdn-user@vvdn-user:-/Documents/dir1$ rm sample.txt
sample1.txt sample2.txt
```

9.cat-list the content of the file

10.echo-moving data to the file

```
vvdn-user@vvdn-user:~/Documents/dir1$ cat sample2.txt
hello
vvdn-user@vvdn-user:~/Documents/dir1$ cat sample1.txt sample2.txt>sample3.txt
vvdn-user@vvdn-user:~/Documents/dir1$ cat sample3.txt
hi
hello
vvdn-user@vvdn-user:~/Documents/dir1$ echo welcome to ubuntu
welcome to ubuntu
vvdn-user@vvdn-user:~/Documents/dir1$
```

11.history-list of commands used so far.

12.man-manual instructions of tail command.

```
wvdn-user@vvdn-user: ~/Documents/dir1

MAN(1) Manual pager utils MAN(1)

NAME

man - an interface to the on-line reference manuals

SYNOPSIS

man [-C file] [-d] [-D] [--warnings[=warnings]] [-R encoding] [-L locale] [-m system[,...]] [-M path] [-S list] [-e extension] [-i]-I] [--regex[--wildcard] [--names-only] [-a] [-u] [--no-subpages] [-P pager] [-r prompt] [-7] [-E encoding] [--no-hyphenation] [-no-justification] [-p string] [-t] [-T[device]] [-H[browser]] [-X[dpi]] [-Z] [[section] page ...] ...

man -k [-w]-W] [-S list] [-i]-I] [--regex] [section] term ...

man -f [whatis options] page ...

man -f [whatis options] page ...

man -l [-C file] [-d] [-D] [-warnings[=warnings]] [-R encoding] [-t] [-T[device]] [-H[browser]] [-X[dpi]] [-Z] file ...

man -w]-W [-C file] [-d] [-D] page ...

man -c [-C file] [-d] [-D] page ...

man [-2V]

DESCRIPTION

Manual page man(1) line 1 (press h for help or q to quit)
```

13.zip-compression of files

14.unzip-extraction of files

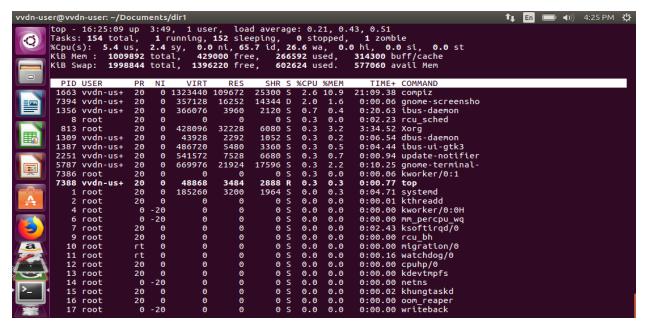
```
vvdn-user@vvdn-user:~/Documents/dir1$ sudo apt-get install zip
[sudo] password for vvdn-user:
Sorry, try again.
[sudo] password for vvdn-user:
Reading package lists... Done
Building dependency tree
Reading state information... Done
zip is already the newest version (3.0-11).
0 upgraded, 0 newly installed, 0 to remove and 571 not upgraded.
vvdn-user@vvdn-user:~/Documents/dir1$ sudo apt-get install unzip
Reading package lists... Done
Building dependency tree
Reading state information... Done
unzip is already the newest version (6.0-20ubuntu1).
0 upgraded, 0 newly installed, 0 to remove and 571 not upgraded.
vvdn-user@vvdn-user:~/Documents/dir1$
```

```
vvdn-user@vvdn-user:~/Documents/dir1$ zip -r sample.zip sample1.txt
adding: sample1.txt (stored 0%)
vvdn-user@vvdn-user:~/Documents/dir1$ ls
sample1.txt sample2.txt sample3.txt sample.zip
vvdn-user@vvdn-user:~/Documents/dir1$ unzip sample.zip
Archive: sample.zip
replace sample1.txt? [y]es, [n]o, [A]ll, [N]one, [r]ename: y
extracting: sample1.txt
'vvdn-user@vvdn-user:~/Documents/dir1$ ls
sample1.txt sample2.txt sample3.txt
vvdn-user@vvdn-user:~/Documents/dir1$
```

15.gzip-This is also similar to zip by the means of compression

```
vvdn-user@vvdn-user:~/Documents/dir1$ gzip sample1.txt
vvdn-user@vvdn-user:~/Documents/dir1$ ls
sample1.txt.gz sample2.txt sample3.txt sample.zip
```

16.top-lists the process and threads



17.lsblk-reads sysfs filesystem to gather information.

```
vvdn-user@vvdn-user:~/Documents/dir1$ lsblk

NAME MAJ:MIN RM SIZE RO TYPE MOUNTPOINT

sr0 11:0 1 1024M 0 rom

sda 8:0 0 10G 0 disk

-sda2 8:2 0 1K 0 part
-sda5 8:5 0 8.1G 0 part /

sda1 8:1 0 1.9G 0 part [SWAP]

vvdn-user@vvdn-user:~/Documents/dir1$
```

18.env-list of current environment variable

```
| Vodn-user@vodn-user:-/bocuments/dtr15 env | XDG_VTNR=7 | XDG_SESSION_ID=c2 | XDG_SESSION_ID=c2 | XDG_SESSION_ID=c2 | XDG_GESEER_DATA_DIR=/var/lib/lightdm-data/vvdn-user | CLUTTER_IM_MODULE=xim | SESSION=ubuntu | GPG_AGENT_INFO=/home/vvdn-user/.gnupg/S.gpg-agent:0:1 | TERM=xterm-256color | VTE_VERSION=4205 | XDG_MENU_PREFIX=gnome-| XDG_ME
```

19.sleep-delays the execution by the given time

20.grep-filter searches for particular pattern and displays required field.

```
vvdn-user@vvdn-user:~/Documents/dir1$ grep -c "hi" sample3.txt
1
vvdn-user@vvdn-user:~/Documents/dir1$
```

21.head-outputs the first part of file

22.tail-prints the last part of the file

```
vvdn-user@vvdn-user:~/Documents/dir1$ cat sample3.txt
ht
ubuntu
hello
Add
Edit

vvdn-user@vvdn-user:~/Documents/dir1$ head -n 2 sample3.txt
ht
ubuntu
vvdn-user@vvdn-user:~/Documents/dir1$ tail -n 2 sample3.txt
Edit
```

23.kill-terminates the process manually

```
vvdn-user@vvdn-user:~/Documents/dir1$ kill --help
bash: kill: -help: invalid signal specification
vvdn-user@vvdn-user:~/Documents/dir1$ kill
kill: usage: kill [-s sigspec | -n signum | -sigspec] pid | jobspec ... or kill -l [sigspec]
vvdn-user@vvdn-user:~/Documents/dir1$ kill -l

1) SIGHUP 2) SIGINT 3) SIGQUIT 4) SIGILL 5) SIGTRAP
6) SIGABRT 7) SIGBUS 8) SIGFPE 9) SIGKILL 10) SIGUSR1
11) SIGSEGV 12) SIGUSR2 13) SIGPPE 14) SIGALRM 15) SIGTERM
16) SIGSTKFLT 17) SIGCHLD 18) SIGCONT 19) SIGSTOP 20) SIGTSTP
21) SIGTTIN 22) SIGTTOU 23) SIGURG 24) SIGXPU 25) SIGXFSZ
26) SIGVTALRM 27) SIGPROF 28) SIGWINCH 29) SIGIO 30) SIGPWR
31) SIGSYS 34) SIGRTMIN+3 40) SIGRTMIN+1 36) SIGRTMIN+2 37) SIGRTMIN+3
38) SIGRTMIN+4 39) SIGRTMIN+5 40) SIGRTMIN+6 41) SIGRTMIN+7 42) SIGRTMIN+8
43) SIGRTMIN+9 44) SIGRTMIN+10 45) SIGRTMIN+11 46) SIGRTMIN+12 47) SIGRTMIN+13
48) SIGRTMIN+14 49) SIGRTMIN+15 50) SIGRTMINX-14 51) SIGRTMINX-12 57) SIGRTMAX-12
53) SIGRTMAX-1 54) SIGRTMAX-10 55) SIGRTMAX-14 51) SIGRTMAX-13 52) SIGRTMAX-12
53) SIGRTMAX-1 64) SIGRTMAX-10 55) SIGRTMAX-2 61) SIGRTMAX-3 62) SIGRTMAX-2
63) SIGRTMAX-1 64) SIGRTMAX
VVdn-user@vvdn-user:~/Documents/dir1$
```

24.chmod-making file readable, writable, executable

```
vvdn-user@vvdn-user:~/Documents/dir1$ chmod 777 sample1.txt
vvdn-user@vvdn-user:~/Documents/dir1$ ls -l sample1.txt
-rwxrwxrwx 1 vvdn-user vvdn-user 3 Nov 30 14:56 sample1.txt
vvdn-user@vvdn-user:~/Documents/dir1$
```

25.chown-changes user/ownership of a file or directory

```
vodn-user@vvdn-user:-/Documents/dir1$ chown test_user sample1.txt

chown: changing ownership of 'sample1.txt': Operation not permitted

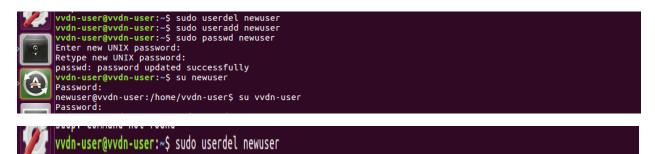
vvdn-user@vvdn-user:-/Documents/dir1$ chown test_user sample3.txt

chown: changing ownership of 'sample3.txt': Operation not permitted

vvdn-user@vvdn-user:-/Documents/dir1$
```

26.useradd-adding new user with password setup

27.userdel-deletion of the created user



28.tar-creates, modifies and extract files.

```
vvdn-user@vvdn-user:~/Documents$ tar -cvf dir.tar dir2
dir2/
dir2/dir.tar
dir2/file.txt
dir2/file1.txt
vvdn-user@vvdn-user:~/Documents$
```