

Basic Linux Commands:

1. whoami

```
kriss@My-Linux:~$ whoami  
kriss
```

2. hostname

```
kriss@My-Linux:~$ hostname  
My-Linux
```

3. date

```
kriss@My-Linux:~$ date  
Thursday 24 February 2022 07:17:08 PM IST
```

4. time

```
kriss@My-Linux:~$ time  
  
real    0m0.000s  
user    0m0.000s  
sys     0m0.000s
```

5. cal

```
kriss@My-Linux:~$ cal  
February 2022  
Su Mo Tu We Th Fr Sa  
    1  2  3  4  5  
 6  7  8  9 10 11 12  
13 14 15 16 17 18 19  
20 21 22 23 24 25 26  
27 28
```

6. clear

- a. before:

```
Activities Terminal Feb 24 19:21 kriss@My-Linux: ~
Il en fera.
Feb 24 Mátyás
Feb 24 День славянской письменности и культуры
Feb 24 Международный день ООН
Feb 24 День взятия турецкой крепости Измаил русскими войсками под командованием А.В. Суворова (17
90 год)
Feb 24 День Велеса
Feb 24 National Artist Day (วันศิลปินแห่งชาติ) in Thailand
Feb 25 George Harrison born in Liverpool, England, 1943
Feb 25 Renoir born, 1841
Feb 25 National Day in Kuwait
Feb 25* Family Day
Feb 25 George Harrison born in Liverpool, England, 1943
Feb 25 Nace José de San Martín en Yapeyú provincia de Corrientes, 1778
Feb 25 Aujourd'hui, c'est la St(e) Roméo.
Feb 25 N'oubliez pas les Avertan !
Feb 25 Auflösung der Landes Preußen durch den Kontrollrat, 1947
Feb 25 Géza
Feb 25 Татьянин день. Студенческий праздник
Feb 25 День таможенника
Feb 25 Коляда (сдвинутое зимнее солнцестояние)
kriss@My-Linux:~$ cal
February 2022
Su Mo Tu We Th Fr Sa
1 2 3 4 5
6 7 8 9 10 11 12
13 14 15 16 17 18 19
20 21 22 23 24 25 26
27 28
kriss@My-Linux:~$ echo nest
nest
kriss@My-Linux:~$ echo gg
gg
kriss@My-Linux:~$ clear
```

b. after:

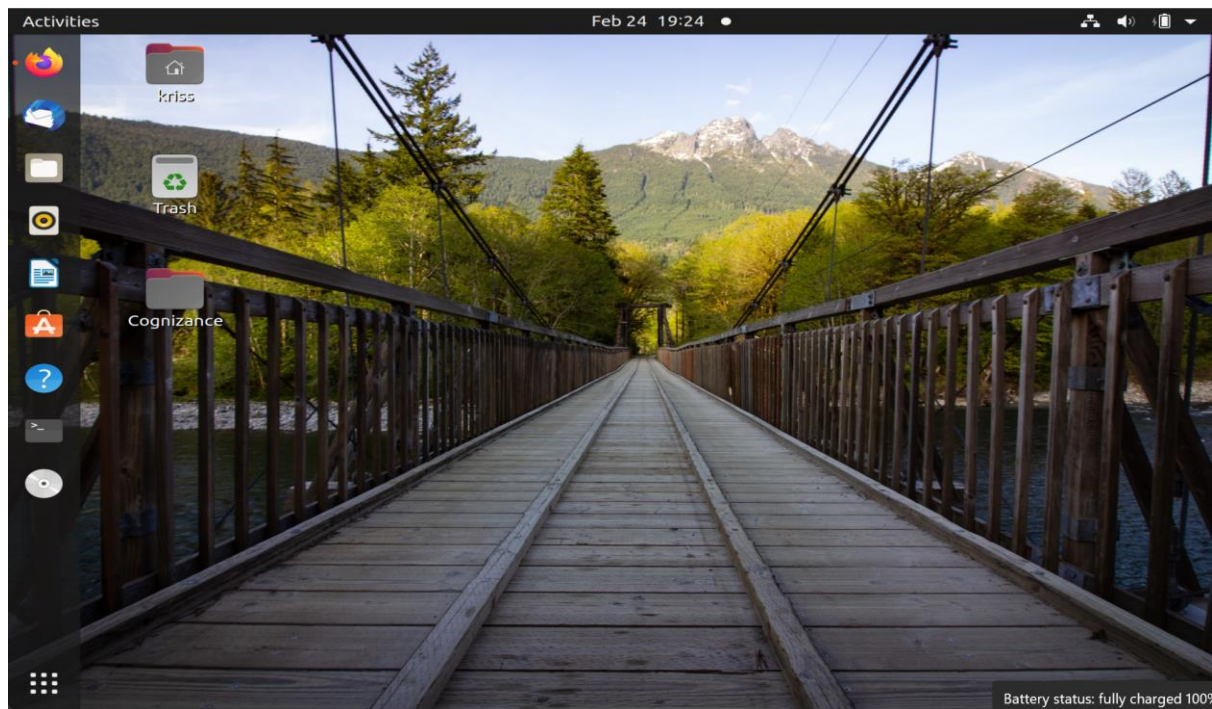
```
kriss@My-Linux:~$
```

7. exit:

a. before:

```
kriss@My-Linux: ~  
kriss@My-Linux:~$ exit
```

b. after:



8. pwd

```
kriss@My-Linux:~$ pwd  
/home/kriss
```

9. ls

```
kriss@My-Linux:~$ ls  
Desktop    Downloads  new        Public    test  
Documents  Music      Pictures   Templates Videos  
kriss@My-Linux:~$
```

10. cd

```
kriss@My-Linux:~$ cd Desktop
kriss@My-Linux:~/Desktop$
```

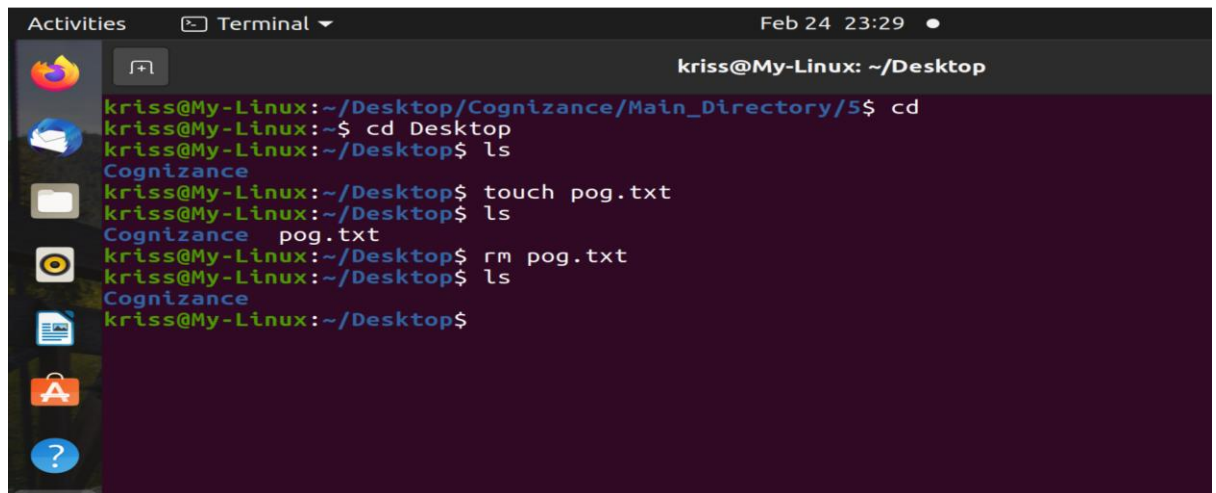
11 and 12:

mkdir and rmdir

```
kriss@My-Linux:~/Desktop$ mkdir Test
kriss@My-Linux:~/Desktop$ ls
Cognizance  Test
kriss@My-Linux:~/Desktop$ rmdir Test
kriss@My-Linux:~/Desktop$ ls
Cognizance
kriss@My-Linux:~/Desktop$
```

13 and 14:

rm and touch

A screenshot of a Linux terminal window. The title bar shows 'Activities', 'Terminal', and the date 'Feb 24 23:29'. The terminal prompt is 'kriss@My-Linux: ~/Desktop'. The user navigates to a directory 'Cognizance/Main_Directory/5' and then back to the Desktop. They list the contents, which include 'Cognizance' and 'pog.txt'. Then they use 'touch' to create 'pog.txt', list the contents again, and finally use 'rm' to delete 'pog.txt'.

```
kriss@My-Linux:~/Desktop/Cognizance/Main_Directory/5$ cd
kriss@My-Linux:~$ cd Desktop
kriss@My-Linux:~/Desktop$ ls
Cognizance
kriss@My-Linux:~/Desktop$ touch pog.txt
kriss@My-Linux:~/Desktop$ ls
Cognizance  pog.txt
kriss@My-Linux:~/Desktop$ rm pog.txt
kriss@My-Linux:~/Desktop$ ls
Cognizance
kriss@My-Linux:~/Desktop$
```

15 and 16:

Mv and cp:

```
kriss@My-Linux:~/Desktop$ touch test.txt
kriss@My-Linux:~/Desktop$ ls
Cognizance  test.txt
kriss@My-Linux:~/Desktop$ mv test.txt Cognizance
kriss@My-Linux:~/Desktop$ ls
Cognizance
kriss@My-Linux:~/Desktop$ cd Cognizance
kriss@My-Linux:~/Desktop/Cognizance$ ls
Main_Directory  Task.tar.gz  test.txt
kriss@My-Linux:~/Desktop/Cognizance$
```

```
kriss@My-Linux:~/Desktop$ touch test2.txt
kriss@My-Linux:~/Desktop$ ls
Cognizance  test2.txt
kriss@My-Linux:~/Desktop$ cp test2.txt Cognizance
kriss@My-Linux:~/Desktop$ ls
Cognizance  test2.txt
kriss@My-Linux:~/Desktop$ ls Cognizance
Main_Directory Task.tar.gz  test2.txt  test.txt
kriss@My-Linux:~/Desktop$
```

17:

Find

```
kriss@My-Linux:~/Desktop$ find test2.txt
test2.txt
kriss@My-Linux:~/Desktop$
```

18:

Locate

```
kriss@My-Linux:~/Desktop$ locate test.txt
/home/kriss/Desktop/Cognizance/test.txt
kriss@My-Linux:~/Desktop$
```

19:

Man

```
Activities  Terminal  Feb 24 23:37
kriss@My-Linux: ~/Desktop
CAT(1)  User Commands  CAT(1)
NAME
cat - concatenate files and print on the standard output
SYNOPSIS
cat [OPTION]... [FILE]...
DESCRIPTION
Concatenate FILE(s) to standard output.
With no FILE, or when FILE is -, read standard input.
-A, --show-all          equivalent to -vET
-b, --number-nonblank    number nonempty output lines, overrides -n
-e                      equivalent to -vE
-E, --show-ends          display $ at end of each line
-n, --number             number all output lines
-s, --squeeze-blank      suppress repeated empty output lines
-t                      equivalent to -vT
-T, --show-tabs          display TAB characters as ^I
Manual page cat(1) line 1/71 45% (press h for help or q to quit)
```

20:

Echo


```
kriss@My-Linux:~/Desktop$ man cat
kriss@My-Linux:~/Desktop$ echo Hey there
Hey there
kriss@My-Linux:~/Desktop$
```

21:

Cat

```
kriss@My-Linux:~/Desktop/Cognizance/Main_Directory/1/zipped_flag$ cat zipped_flag.txt
flag{e@5y_p@ssw0rd!}
kriss@My-Linux:~/Desktop/Cognizance/Main_Directory/1/zipped_flag$
```

22:

Head:

```
kriss@My-Linux:~/Desktop$ head test2.txt
1
2
3
4
5
6
7
8
9
q
```

23:

Tail

```
kriss@My-Linux:~/Desktop$ tail test2.txt
7
8
9
q
w
e
r
t
y
```

24:

Grep

```
Cognizance test2.txt ziptest
kriss@My-Linux:~/Desktop$ grep q test2.txt
q
kriss@My-Linux:~/Desktop$
```

25:

Diff

```

kriss@My-Linux:~/Desktop/Cognizance$ diff test.txt test2.txt
1,2c1,5
< qwoiey asasofnqsleeg
< sadg
- - -
> ausgfhkgsjdbfqsd
> fgqsg
> qdfvqasd
> qwe
> qwes
4,10c7,9
< rg
< qw
< sdg
< ere
< hg
< t
< ywherhwdfasd
- - -
> we
> fqs
> f

```

26:

Sudo

```

kriss@My-Linux:~/Desktop$ sudo apt install mlocate
[sudo] password for kriss:
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following packages were automatically installed and are no longer required:
  linux-image-5.11.0-37-generic linux-modules-5.11.0-37-generic
  linux-modules-extra-5.11.0-37-generic
Use 'sudo apt autoremove' to remove them.
Suggested packages:
  ncache
The following NEW packages will be installed:
  mlocate
0 upgraded, 1 newly installed, 0 to remove and 82 not upgraded.
Need to get 50.1 kB of archives.
After this operation, 258 kB of additional disk space will be used.
Get:1 http://in.archive.ubuntu.com/ubuntu focal/main amd64 mlocate amd64 0.26-3ubuntu3 [50.1 kB]
Fetched 50.1 kB in 11s (4,763 B/s)
Selecting previously unselected package mlocate.
(Reading database ... 224986 files and directories currently installed.)
Preparing to unpack .../mlocate_0.26-3ubuntu3_amd64.deb ...
Unpacking mlocate (0.26-3ubuntu3) ...
Setting up mlocate (0.26-3ubuntu3) ...
update-alternatives: using /usr/bin/mlocate to provide /usr/bin/locate (locate) in auto mode
Adding group 'mlocate' (GID 135) ...
Done.
Initializing mlocate database; this may take some time... done
Processing triggers for man-db (2.9.1-1) ...

```

27:

Df

```
kriss@My-Linux:~/Desktop$ df
Filesystem      1K-blocks    Used Available Use% Mounted on
udev            4039952         0   4039952  0% /dev
tmpfs           814540      1372    813168  1% /run
/dev/sda5       25670884 10471292 13872540 44% /
tmpfs           4072688         0   4072688  0% /dev/shm
tmpfs           5120         4      5116  1% /run/lock
tmpfs           4072688         0   4072688  0% /sys/fs/cgroup
/dev/loop2      63488      63488         0 100% /snap/core20/1270
/dev/loop3      56960      56960         0 100% /snap/core18/2284
/dev/loop4      224256     224256         0 100% /snap/gnome-3-34-1804/77
/dev/loop1      56832      56832         0 100% /snap/core18/2253
/dev/loop0       128        128         0 100% /snap/bare/5
/dev/loop5      66688      66688         0 100% /snap/gtk-common-themes/1515
/dev/loop6      253952     253952         0 100% /snap/gnome-3-38-2004/87
/dev/loop7      224256     224256         0 100% /snap/gnome-3-34-1804/72
/dev/loop8      52224      52224         0 100% /snap/snap-store/547
/dev/loop11     66816      66816         0 100% /snap/gtk-common-themes/1519
/dev/loop12     55552      55552         0 100% /snap/snap-store/558
/dev/sda1       523248         4   523244  1% /boot/efi
tmpfs           814536         36   814500  1% /run/user/1000
/dev/sr0        59590      59590         0 100% /media/kriss/VBox_GAs_6.1.221
/dev/loop13     44672      44672         0 100% /snap/snapd/14978
/dev/loop9      63488      63488         0 100% /snap/core20/1361
/dev/loop14     254848     254848         0 100% /snap/gnome-3-38-2004/99
kriss@My-Linux:~/Desktop$
```

28:

Du

```
kriss@My-Linux:~/Desktop$ du
12    ./Cognizance/Main_Directory/4
8     ./Cognizance/Main_Directory/1/zipped_flag
4     ./Cognizance/Main_Directory/1/.flag{Y0u_f0und_th3_hidd3n_dir!}
20    ./Cognizance/Main_Directory/1
20    ./Cognizance/Main_Directory/5
8     ./Cognizance/Main_Directory/3/find_me/1/2/3/4/5/6/7/8
12    ./Cognizance/Main_Directory/3/find_me/1/2/3/4/5/6/7
16    ./Cognizance/Main_Directory/3/find_me/1/2/3/4/5/6
20    ./Cognizance/Main_Directory/3/find_me/1/2/3/4/5
28    ./Cognizance/Main_Directory/3/find_me/1/2/3/4
32    ./Cognizance/Main_Directory/3/find_me/1/2/3
36    ./Cognizance/Main_Directory/3/find_me/1/2
40    ./Cognizance/Main_Directory/3/find_me/1
44    ./Cognizance/Main_Directory/3/find_me
60    ./Cognizance/Main_Directory/3
4     ./Cognizance/Main_Directory/flag{f1rst_fl@g_h3r3}
120   ./Cognizance/Main_Directory
128   ./Cognizance
136   .
kriss@My-Linux:~/Desktop$
```

29:

Unzip

```
kriss@My-Linux:~/Desktop/Cognizance/Main_Directory/1$ unzip zipped_flag.zip
Archive:  zipped_flag.zip
  creating: zipped_flag/
[zipped_flag.zip] zipped_flag/zipped_flag.txt password:
  extracting: zipped_flag/zipped_flag.txt
kriss@My-Linux:~/Desktop/Cognizance/Main_Directory/1$
```

30:

Tar

```
kriss@My-Linux:~/Desktop/Cognizance$ tar -x -f Task.tar.gz
kriss@My-Linux:~/Desktop/Cognizance$ ls
Main_Directory Task.tar.gz test2.txt test.txt
kriss@My-Linux:~/Desktop/Cognizance$
```


31:

Chmod

```
kriss@My-Linux:~/Desktop/Cognizance$ chmod 745 test.txt
kriss@My-Linux:~/Desktop/Cognizance$ ls
Main_Directory Task.tar.gz test2.txt test.txt
kriss@My-Linux:~/Desktop/Cognizance$
```

32:

Apropos

```
kriss@My-Linux:~/Desktop/Cognizance$ apropos cut
binfmt.d (5) - Configure additional binary formats for executables at boot
bzexe (1) - compress executable files in place
compose (1) - execute programs via entries in the mailcap file
cron (8) - daemon to execute scheduled commands (Vixie Cron)
cut (1) - remove sections from each line of files
dlsym (3) - obtain address of a symbol in a shared object or executable
dlvsym (3) - obtain address of a symbol in a shared object or executable
edit (1) - execute programs via entries in the mailcap file
elf (5) - format of Executable and Linking Format (ELF) files
exec (3) - execute a file
execl (3) - execute a file
execle (3) - execute a file
execlp (3) - execute a file
execv (3) - execute a file
execve (2) - execute program
execveat (2) - execute program relative to a directory file descriptor
execvp (3) - execute a file
execvpe (3) - execute a file
fexecve (3) - execute program specified via file descriptor
gvfs-less (1) - Execute less on the output of gvfs-cat
gzexe (1) - compress executable files in place
im-launch (1) - launch input method and execute session program
invoke-rc.d (8) - executes System-V style init script actions
kexec_file_load (2) - load a new kernel for later execution
kexec_load (2) - load a new kernel for later execution
personality (2) - set the process execution domain
pkexec (1) - Execute a command as another user
print (1) - execute programs via entries in the mailcap file
profil (3) - execution time profile
run-mailcap (1) - execute programs via entries in the mailcap file
see (1) - execute programs via entries in the mailcap file
sq (1) - execute command as different group ID
```