

## LINUX TOP 50 COMMANDS :

1. ls - The most frequently used command in Linux to list directories
2. pwd - Print working directory command in Linux
3. cd - Linux command to navigate through directories
4. mkdir - Command used to create directories in Linux
5. mv - Move or rename files in Linux
6. cp - Similar usage as mv but for copying files in Linux
7. rm - Delete files or directories
8. touch - Create blank/empty files
9. ln - Create symbolic links (shortcuts) to other files
10. cat - Display file contents on the terminal
11. clear - Clear the terminal display
12. echo - Print any text that follows the command
13. less - Linux command to display paged outputs in the terminal
14. man - Access manual pages for all Linux commands
15. uname - Linux command to get basic information about the OS
16. whoami - Get the active username
17. tar - Command to extract and compress files in Linux
18. grep - Search for a string within an output
19. head - Return the specified number of lines from the top
20. tail - Return the specified number of lines from the bottom
21. diff - Find the difference between two files
22. cmp - Allows you to check if two files are identical
23. comm - Combines the functionality of diff and cmp
24. sort - Linux command to sort the content of a file while outputting
25. export - Export environment variables in Linux
26. zip - Zip files in Linux
27. unzip - Unzip files in Linux
28. ssh - Secure Shell command in Linux
29. service - Linux command to start and stop services
30. ps - Display active processes
31. kill and killall - Kill active processes by process ID or name
32. df - Display disk filesystem information
33. mount - Mount file systems in Linux
34. chmod - Command to change file permissions
35. chown - Command for granting ownership of files or folders
36. ifconfig - Display network interfaces and IP addresses
37. traceroute - Trace all the network hops to reach the destination
38. wget - Direct download files from the internet
39. ufw - Firewall command
40. iptables - Base firewall for all other firewall utilities to interface with
41. apt, pacman, yum, rpm - Package managers depending on the distro

42. sudo - Command to escalate privileges in Linux
43. cal - View a command-line calendar
44. alias - Create custom shortcuts for your regularly used commands
45. dd - Majorly used for creating bootable USB sticks
46. whereis - Locate the binary, source, and manual pages for a command
47. whatis - Find what a command is used for
48. top - View active processes live with their system usage
49. useradd and usermod - Add new user or change existing users data
50. passwd - Create or update passwords for existing users

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root@PRATIK: /home/pratik
pratik@PRATIK:~$ sudo su
[sudo] password for pratik:
root@PRATIK:/home/pratik# pwd
/home/pratik
root@PRATIK:/home/pratik# touch pratik.txt
root@PRATIK:/home/pratik# rm -rf pratik.txt
root@PRATIK:/home/pratik# top
top - 12:27:19 up 2 min,  0 users,  load average: 0.00, 0.00, 0.00
Tasks:  9 total,   1 running,  8 sleeping,   0 stopped,   0 zombie
%Cpu(s):  0.0 us,  0.0 sy,  0.0 ni,100.0 id,  0.0 wa,  0.0 hi,  0.0 si,  0.0 st
MiB Mem :  7817.3 total,  7447.8 free,   281.3 used,    88.2 buff/cache
MiB Swap:  2048.0 total,  2048.0 free,    0.0 used.  7362.9 avail Mem

  PID USER      PR  NI   VIRT   RES   SHR  S  %CPU  %MEM     TIME+ COMMAND
   33 root        20   0    7812    364   3036  R   0.3   0.0   0:00.01 top
    1 root        20   0    1816    118   1108  S   0.0   0.0   0:00.02 init
    8 root        20   0    2164     36     0  S   0.0   0.0   0:00.00 init
    9 root        20   0    2172     36     0  S   0.0   0.0   0:00.02 init
   10 pratik      20   0   6204   5104   3384  S   0.0   0.1   0:00.04 bash
   22 root        20   0   9172   5844   4940  S   0.0   0.1   0:00.06 sudo
   23 root        20   0   9172     92     0  S   0.0   0.0   0:00.00 sudo
   24 root        20   0   7624   4164   3632  S   0.0   0.1   0:00.00 su
   25 root        20   0   5040   4048   3428  S   0.0   0.1   0:00.01 bash

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pratik@PRATIK:~$ sudo su
[sudo] password for pratik:
root@PRATIK:/home/pratik# vi pratik.txt
root@PRATIK:/home/pratik# cat pratik.txt
Jay shree ram

root@PRATIK:/home/pratik# grep "ram" pratik.txt
Jay shree ram

root@PRATIK:/home/pratik# mkdir folder1
root@PRATIK:/home/pratik# cp pratik.txt folder1
root@PRATIK:/home/pratik# cd folder1
root@PRATIK:/home/pratik/folder1# ls
pratik.txt
root@PRATIK:/home/pratik/folder1# cd ..
root@PRATIK:/home/pratik# mv pratik.txt aditya.txt
root@PRATIK:/home/pratik# ls
Pratik  aditya.txt  application.sh  count_executables.sh  folder1  new_script.sh  pratik
root@PRATIK:/home/pratik# cat > aditya.txt
Har Har Mahadev
:w

root@PRATIK:/home/pratik# cat aditya.txt
Har Har Mahadev
:w

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.w

root@PRATIK:/home/pratik# touch linux_commands
root@PRATIK:/home/pratik# cat > linux_commands
ls - The most frequently used command in Linux to list directories
pwd - Print working directory command in Linux
cd - Linux command to navigate through directories
mkdir - Command used to create directories in Linux
mv - Move or rename files in Linux
cp - Similar usage as mv but for copying files in Linux
rm - Delete files or directories
touch - Create blank/empty files
ln - Create symbolic links (shortcuts) to other files
cat - Display file contents on the terminalroot@PRATIK:/home/pratik#
root@PRATIK:/home/pratik# c_

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Select root@PRATIK: /home/pratik

root@PRATIK:/home/pratik# head -5 linux\_commands

ls - The most frequently used command in Linux to list directories

pwd - Print working directory command in Linux

cd - Linux command to navigate through directories

mkdir - Command used to create directories in Linux

mv - Move or rename files in Linux

root@PRATIK:/home/pratik#

root@PRATIK:/home/pratik# tail -8 linux\_commands

cd - Linux command to navigate through directories

mkdir - Command used to create directories in Linux

mv - Move or rename files in Linux

cp - Similar usage as mv but for copying files in Linux

rm - Delete files or directories

touch - Create blank/empty files

ln - Create symbolic links (shortcuts) to other files

cat - Display file contents on the terminalroot@PRATIK:/home/pratik# vi linux\_commands

root@PRATIK: /home/pratik

root@PRATIK:/home/pratik# ps

PID	TTY	TIME	CMD
74	pts/1	00:00:00	sudo
75	pts/1	00:00:00	su
76	pts/1	00:00:00	bash
104	pts/1	00:00:00	ps

root@PRATIK:/home/pratik#

root@PRATIK:/home/pratik# df

Filesystem	1K-blocks	Used	Available	Use%	Mounted on
/dev/sdc	263174212	1517904	248218152	1%	/
none	4002452	28	4002424	1%	/mnt/wslg
none	4002452	4	4002448	1%	/mnt/wsl
tools	265759044	237577228	28181816	90%	/init
none	4002452	4	4002448	1%	/run
none	4002452	0	4002452	0%	/run/lock
none	4002452	0	4002452	0%	/run/shm
none	4002452	0	4002452	0%	/run/user
tmpfs	4002452	0	4002452	0%	/sys/fs/cgroup
drivers	265759044	237577228	28181816	90%	/usr/lib/wsl/drivers
lib	265759044	237577228	28181816	90%	/usr/lib/wsl/lib
none	4002452	76	4002376	1%	/mnt/wslg/versions.txt
none	4002452	76	4002376	1%	/mnt/wslg/doc
drvfs	265759044	237577228	28181816	90%	/mnt/c
drvfs	209714172	146935360	62778812	71%	/mnt/d

root@PRATIK:/home/pratik#

root@PRATIK:/home/pratik# du

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8      ./folder1
60     .
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root@PRATIK:/home/pratik# hostname

PRATIK

root@PRATIK:/home/pratik# uname

Linux

root@PRATIK:/home/pratik# free -m

	total	used	free	shared	buff/cache	available
Mem:	7817	284	7435	0	97	7354
Swap:	2048	0	2048			

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root@PRATIK:/home/pratik# more aditya.txt
Har Har Mahadev
:w

root@PRATIK:/home/pratik# less aditya.txt
root@PRATIK:/home/pratik#
root@PRATIK:/home/pratik# chmod u+rwX aditya.txt
root@PRATIK:/home/pratik# chmod 777 linux_commands
root@PRATIK:/home/pratik# ls -ltr
total 36
-rw-r--r-- 1 root root    0 Apr  9 03:18 pratik
-rwxr-xr-x 1 root root  262 Apr 12 10:45 new_script.sh
-rwxr-xr-x 1 root root  333 Apr 12 10:50 count_executable
-rwxr-xr-x 1 root root 1236 Apr 12 10:55 application.sh
-rw-r--r-- 1 root root   28 Apr 12 12:30 Pratik
drwxr-xr-x 2 root root 4096 Apr 12 12:33 folder1
-rwxr--r-- 1 root root   20 Apr 12 12:36 aditya.txt
-rwxrwxrwx 1 root root 10240 Apr 12 12:45 linux_commands
root@PRATIK:/home/pratik#

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root@PRATIK:/home/pratik# ls
Pratik aditya.txt application.sh count_executables.sh folder1 linux_commands new_script.sh pratik
root@PRATIK:/home/pratik# wc linux_commands
0 0 10240 linux_commands
root@PRATIK:/home/pratik# wc -l aditya.txt
3 aditya.txt
root@PRATIK:/home/pratik# gzip linux_commands
root@PRATIK:/home/pratik# ls
Pratik aditya.txt application.sh count_executables.sh folder1 linux_commands.gz new_script.sh pratik
root@PRATIK:/home/pratik# unzip linux_commands
Command 'unzip' not found, but can be installed with:
apt install unzip
root@PRATIK:/home/pratik# gunzip linux_commands
root@PRATIK:/home/pratik# ls
Pratik aditya.txt application.sh count_executables.sh folder1 linux_commands new_script.sh pratik
root@PRATIK:/home/pratik#
root@PRATIK:/home/pratik# find pratik
pratik
root@PRATIK:/home/pratik# find . -name "*.txt"
./folder1/pratik.txt
./aditya.txt
root@PRATIK:/home/pratik# locate pratik
Command 'locate' not found, but can be installed with:
apt install plocate
root@PRATIK:/home/pratik# apt install plocate
Reading package lists... Done
Building dependency tree... Done

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root@PRATIK:/home/pratik# ls
Pratik  aditya.txt  application.sh  count_executables.sh  folder1  linux_commands  new_script.sh  pratik
root@PRATIK:/home/pratik# rm application.sh
root@PRATIK:/home/pratik#
root@PRATIK:/home/pratik# locate linux_commands
/home/pratik/linux_commands
root@PRATIK:/home/pratik# ps
  PID TTY          TIME CMD
   74 pts/1    00:00:00 sudo
   75 pts/1    00:00:00 su
   76 pts/1    00:00:00 bash
  278 pts/1    00:00:00 ps
root@PRATIK:/home/pratik# kill 278
bash: kill: (278) - No such process
root@PRATIK:/home/pratik# kill 74
root@PRATIK:/home/pratik#
Session terminated, killing shell... ...killed.
Terminated
pratik@PRATIK:~$ ls
Pratik  aditya.txt  count_executables.sh  folder1  linux_commands  new_script.sh  pratik
pratik@PRATIK:~$ ls -la
total 56
drwxr-x--- 3 pratik pratik 4096 Apr 12 13:18 .
drwxr-xr-x 4 root   root   4096 Apr  9 03:32 ..
-rw----- 1 pratik pratik  101 Apr 12 10:56 .bash_history
-rw-r--r-- 1 pratik pratik  220 Apr  9 03:15 .bash_logout
-rw-r--r-- 1 pratik pratik 3771 Apr  9 03:15 .bashrc
-rw-r--r-- 1 pratik pratik    0 Apr 12 10:44 .motd_shown
-rw-r--r-- 1 pratik pratik  807 Apr  9 03:15 .profile
-rw-r--r-- 1 pratik pratik    0 Apr  9 03:17 .sudo_as_admin_successful
-rw-r--r-- 1 root   root    28 Apr 12 12:30 Pratik

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root@PRATIK:/home/pratik
pratik@PRATIK:~$ tac aditya.txt

:w
Har Har Mahadev
pratik@PRATIK:~$ man cat
pratik@PRATIK:~$ whereis sudo
sudo: /usr/bin/sudo /usr/libexec/sudo /usr/share/man/man8/sudo.8.gz
pratik@PRATIK:~$ whatis sudo
sudo (8)          - execute a command as another user
pratik@PRATIK:~$ id
uid=1000(pratik) gid=1000(pratik) groups=1000(pratik),4(adm),20(dialout),24(cdrom),25(floppy),27(sudo),29(audio)
pratik@PRATIK:~$
pratik@PRATIK:~$ useradd PratikS
useradd: Permission denied.
useradd: cannot lock /etc/passwd; try again later.
pratik@PRATIK:~$ sudo su
[sudo] password for pratik:
root@PRATIK:/home/pratik# useradd PratikS
root@PRATIK:/home/pratik# sudo useradd PratikS
useradd: user 'PratikS' already exists
root@PRATIK:/home/pratik# sudo useradd PratikS
root@PRATIK:/home/pratik# sudo useradd Pratik_1996
root@PRATIK:/home/pratik# passwd Pratik_1996
New password:
Retype new password:
passwd: password updated successfully
root@PRATIK:/home/pratik#

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