

## Linux Commands


Follow – Krishan Bhatt 

### 1. ls - List directory contents

ls -l 


ls -l

### 2. cd - Change directory

cd /home 


cd /home

### 3. pwd - Print working directory

pwd 

pwd

### 4. mkdir - Make directories

mkdir new\_folder 

mkdir new\_folder

5. rmdir - Remove empty directories

rmdir old\_folder ❌📁

rmdir old\_folder

6. touch - Create an empty file

touch file.txt 📄

touch file.txt

7. rm - Remove files or directories

rm file.txt 🗑️

rm file.txt

8. cp - Copy files or directories

cp file1.txt file2.txt 📄➡️📄

cp file1.txt file2.txt

9. mv - Move or rename files or directories

mv oldname.txt newname.txt ✎️

`mv oldname.txt newname.txt`

#### 10. cat - Concatenate and display files

`cat file.txt` 

`cat file.txt`

#### 11. more - View file contents one screen at a time

`more file.txt` 


`more file.txt`

#### 12. less - View file contents with backward navigation

`less file.txt` 


`less file.txt`

#### 13. head - Output the first part of files

`head -n 10 file.txt` 


`head -n 10 file.txt`

14. tail - Output the last part of files

tail -n 10 file.txt 



tail -n 10 file.txt

15. echo - Display a line of text

echo "Hello, World!" 



echo "Hello, World!"

16. grep - Search text using patterns

grep "search\_term" file.txt  


grep "search\_term" file.txt

17. find - Search for files in a directory hierarchy

find / -name "file.txt"  

find / -name "file.txt"

18. chmod - Change file modes or Access Control Lists

chmod 755 script.sh 

chmod 755 script.sh

#### 19. chown - Change file owner and group

chown user:group file.txt 👤

chown user:group file.txt

#### 20. ln - Make links between files

ln -s file1.txt link.txt 🔗

ln -s file1.txt link.txt

### Commands 21-40

#### 21. df - Report file system disk space usage

df -h 📊

df -h

#### 22. du - Estimate file space usage

du -sh folder/ 📏

du -sh folder/

23. free - Display memory usage

free -m 🧠

free -m

24. top - Display tasks

top 🖥️

top

25. ps - Report a snapshot of current processes

ps aux 🔄

ps aux

26. kill - Terminate a process

kill 1234 🛑

kill 1234

27. killall - Kill processes by name

killall firefox 🦊

killall firefox

28. xargs - Build and execute command lines from standard input

find . -name "\*.txt" | xargs rm ✂

find . -name "\*.txt" | xargs rm

29. tar - Archive files

tar -czvf archive.tar.gz /path/to/dir 📁

tar -czvf archive.tar.gz /path/to/dir

30. gzip - Compress files

gzip file.txt 📄

gzip file.txt

31. gunzip - Decompress files

gunzip file.txt.gz 📁


gunzip file.txt.gz

32. zip - Package and compress files

zip archive.zip file1 file2 

zip archive.zip file1 file2

33. unzip - Extract compressed files

unzip archive.zip 



unzip archive.zip

34. scp - Secure copy (remote file copy program)

scp file.txt user@remote:/path  

scp file.txt user@remote:/path

35. rsync - Remote file and directory synchronization

rsync -avz /local/dir/ user@remote:/path  

rsync -avz /local/dir/ user@remote:/path


36. wget - Non-interactive network downloader



wget http://example.com/file.zip  

wget http://example.com/file.zip

37. curl - Transfer data from or to a server

curl http://example.com 

curl http://example.com

38. ping - Send ICMP ECHO\_REQUEST to network hosts

ping google.com  



ping google.com

39. traceroute - Print the route packets take to the network host

traceroute google.com 

traceroute google.com

40. netstat - Print network connections, routing tables, interface statistics, masquerade connections, and multicast memberships

netstat -tuln  

netstat -tuln

41. ss - Another utility to investigate sockets

ss -tuln 🌐🔍

ss -tuln

42. ifconfig - Configure a network interface

ifconfig eth0 🌐⚙️

ifconfig eth0

43. ip - Show/manipulate routing, devices, policy routing, and tunnels

ip addr show 🌐📜

ip addr show

44. hostname - Show or set the system's hostname

hostname 🏷️

hostname

45. uptime - Tell how long the system has been running

uptime 

uptime

46. dmesg - Print or control the kernel ring buffer

dmesg  

dmesg

47. last - Show a listing of last logged in users

last 


last

48. who - Show who is logged on

who  



who

49. whoami - Print the current user id and name

whoami 


whoami

50. su - Switch user

su - user  


su - user

51. sudo - Execute a command as another user

sudo apt-get update 



sudo apt-get update

52. passwd - Update a user's authentication tokens

passwd 

passwd

53. adduser - Add a user to the system

adduser newuser  

adduser newuser

54. deluser - Remove a user from the system

deluser olduser ❌👤

deluser olduser

55. groupadd - Add a new group

groupadd newgroup ➕👤

groupadd newgroup

56. groupdel - Delete a group

groupdel oldgroup ❌👤

groupdel oldgroup

57. usermod - Modify a user account

usermod -aG sudo user 🔄👤

usermod -aG sudo user

58. chmod - Change file modes or Access Control Lists

chmod 755 script.sh 🗝️

chmod 755 script.sh

59. chgrp - Change group ownership

chgrp newgroup file.txt 👤📁

chgrp newgroup file.txt

60. newgrp - Log in to a new group

newgrp newgroup 🔄👤

newgrp newgroup

61. umask - Set file mode creation mask

umask 022 🔑

umask 022

62. df - Report file system disk space usage

df -h 🟡


df -h

63. du - Estimate file space usage

du -sh folder/ 📏

du -sh folder/

64. mount - Mount a file system

mount /dev/sda1 /mnt 

mount /dev/sda1 /mnt

65. umount - Unmount file systems

umount /mnt  

umount /mnt

66. fsck - File system consistency check and repair

fsck /dev/sda1 

fsck /dev/sda1

67. mkfs - Build a Linux file system

mkfs -t ext4 /dev/sda1  

mkfs -t ext4 /dev/sda1

68. blkid - Locate/print block device attributes

blkid 


blkid

69. lsblk - List information about block devices

lsblk 

lsblk

70. fdisk - Partition table manipulator for Linux

fdisk /dev/sda 


fdisk /dev/sda

71. parted - A partition manipulation program

parted /dev/sda 

parted /dev/sda




72. mkisofs - Create an ISO 9660 image

mkisofs -o cd.iso /path/to/folder 

mkisofs -o cd.iso /path/to/folder



73. dd - Convert and copy a file

dd if=/dev/sda of=/dev/sdb   


dd if=/dev/sda of=/dev/sdb

74. sync - Synchronize cached writes to persistent storage

sync  


sync

75. crontab - Schedule periodic background jobs

crontab -e 



crontab -e

76. at - Schedule commands to be executed at a later time

at 2pm 


at 2pm

77. systemctl - Examine and control the systemd system and service manager

systemctl start apache2  

systemctl start apache2

78. service - Run a System V init script

service apache2 start 


service apache2 start

79. journalctl - Query and display messages from the journal

journalctl -xe 

journalctl -xe

80. dmesg - Print or control the kernel ring buffer

dmesg | tail 

dmesg | tail

Commands 81-100

81. hostnamectl - Control the system hostname

hostnamectl set-hostname newhostname 🏷️

hostnamectl set-hostname newhostname

82. timedatectl - Control the system time and date

timedatectl set-time "2024-07-24 12:34:00" ⌚

timedatectl set-time "2024-07-24 12:34:00"

83. hwclock - Read or set the hardware clock

hwclock --systohc ⌚

hwclock --systohc

84. uname - Print system information

uname -a 🖥️


uname -a

85. lsb\_release - Print distribution-specific information

lsb\_release -a 📄

lsb\_release -a

86. arch - Print machine architecture

arch 

arch

87. dpkg - Package manager for Debian

dpkg -i package.deb 



dpkg -i package.deb

88. apt-get - APT package handling utility

apt-get update  

apt-get update

89. yum - Package manager for RPM-based distributions

yum install package  


yum install package

90. rpm - RPM package manager

rpm -i package.rpm 


rpm -i package.rpm

91. pacman - Package manager for Arch Linux

pacman -Syu 


pacman -Syu

92. snap - Package manager for snap packages

snap install package 


snap install package

93. flatpak - Flatpak package manager

flatpak install package 

flatpak install package

94. brew - Homebrew package manager

brew install package 

brew install package

95. pip - Package manager for Python

pip install package 🐍📦

pip install package

96. gem - Package manager for Ruby

gem install package 💎📦

gem install package

97. npm - Package manager for JavaScript

npm install package 📦

npm install package

98. cargo - Package manager for Rust

cargo install package 🦀📦

cargo install package

99. go get - Package manager for Go

go get package 🐱📦

go get package

100. java - Execute Java applications

java -jar app.jar ☕

sh java -jar app.jar

I'll continue with the next set of 20 commands. Does this format still work for you?