

Top 100 Linux Commands

1. How to check your current location?
Command: pwd
2. How to display name of current logged-in user?
Command: whoami
3. How to check system date or time?
Command: date
Command: date %D
4. How to display files and directory present in current location?
Command: ls
Command: ls -lt
5. How to clear the linux terminal?
Command: clear

Creating Deleting Editing.

6. How to display content of a file on terminal?
Command: cat <file>
7. How to read a file and Search for a word?
Command: less <file>
8. How to view content of a file page by page?
Command: more <file>
9. How to create a file in Linux?
Command: touch <file_name>

10. How to delete a file in Linux?

Command: rm <file_name>

11. How to edit a file in Linux?

Command: vi <file_name>

Command: nano <file_name>

12. How to create a directory/folder in Linux?

Command: mkdir <dir_name>

13. How to delete a directory/folder in Linux?

Command: rmdir <dir_name>

Command: rm -rf <dir_name>

14. How to change path or move to another folder in Linux?

Command: cd /path/folder

Command: cd ..

15. How to copy and paste a file from one folder to another in Linux?

Command: cp <file> /dest/path

16. How to copy content of a file to another file in Linux?

Command: cp fileA fileB

17. How to cut - paste a file from one folder to another in Linux?

Command: mv <file> /dest/path

18. How to rename a file in Linux?

Command: mv fileA fileNewName

19. How to read or display top 5 lines from a file in Linux?

Command: head -5 file

20. How to read or display bottom 5 lines from a file in Linux?

Command: tail -5 file

21. How to SORT the content from a file in Linux?

Command: sort file

Command: sort -r file

22. How to display UNIQUE content from a file in Linux?

Command: sort file | uniq

23. A file has 9 lines. How to split this file in 3 different files in Linux?

Command: split -l 3 file

24. How to search a word and display matching content from a file in Linux?

Command: grep "word" file

25. How to search multiple words and display matching content from a file in Linux?

Command: egrep "word1|word2" file

26. How to use WILDCARDS (* [] {}) in Linux?

Command: ls file*

Command: touch file{1..5}

27. How to SHUFFLE content of file in Linux?

Command: shuf file

28. How to COUNT no. of lines in a file in Linux?

Command: wc -l file

29. How to check if two files are identical or not in Linux?

Command: cmp fileA fileB

30. How to compare and display difference between two files in Linux?

Command: diff -u fileA fileB

31. How to find a file in Linux?

Command: find /path/ -name <file>

32. How to find a file in Linux?

Command: updatedb

Command: locate <file>

Utility Commands

33. How to display previously used commands in past?

Command: history

34. How to check syntax and options available for a command?

Command: help

35. How to read or get mor info about a command?

Command: man

36. How to check which executable is using for a command?

Command: which

37. How to use calculator in Linux?

Command: bc

38. How to check CALENDAR of last year in Linux?

Command: cal

39. How to check How Long server has been running in Linux?

Command: uptime

40. How to record your activity on terminal in a file?

Command: script

41. How to create a short-cut of a long command in Linux?

Command: alias l="ls -ltr"

Zip and Unzip of Files and Folders

42. How to compress a file in Linux?

Command: gzip -k file

43. How to decompress a file in Linux?

Command: gzip -d file

Command: gunzip file

44. How to compress a folder in Linux?

Command: tar -czf myfiles.tar.gz myfiles/

45. How to decompress a folder in Linux?

Command: tar -xzf myfiles.tar.gz

46. How to compress multiple files in one zipped file in Linux?

Command: zip myfiles.zip file1 file2

47. How to list files in zipped file?

Command: unzip -l myfiles.zip

Downloading Files from Internet

48. How to download a file from internet?

Command: wget URL_of_file

Command: `wget -O opt_file.txt URL_Of_file`

49. How to call an API on Linux?

Command: `curl http://numbersapi.com/random`

50. How to install an application on Linux?

Command: `apt` or `yum/dnf`

51. How to check if an application is installed or not on Linux?

Command: `rpm -qa | grep app`

Command: `dnf list installed`

52. How to list available packages to install on Linux?

Command: `apt search <package_name>`

Command: `yum/dnf list available`

53. How to start/stop a service on Linux?

Command: `systemctl start/stop service_name`

54. How to list all services on Linux?

Command: `systemctl list-units --type=service --all`

55. How to list all existing Environment Variables on Linux?

Command: `printenv`

56. How to ADD a new Environment Variables on Linux?

Command: `export JAVA_HOME="/usr/lib/jvm/java_v"`

Command: `export PATH=$JAVA_HOME/bin:$PATH`

57. How to ADD a new Environment Variables permanently on Linux?

Add env variable in `./bashrc` file

Command: `source ~/.bash_profile`

58. How to print a specific column from a CSV file?

Command: `awk -F ',' '{print $2}' file.csv`

59. How to display starting two characters of all line?

Command: `cut -c1-2 file.txt`

60. How to display a specific line from a file?

Command: `sed -n '5p' file.txt`

61. How to replace a specific word within a file?

Command: `sed -n 's/from/to/g' file.txt`

62. How to convert the content to Uppercase or Lowercase within a file?

Command: `tr [:lower:] [:upper:] <file.txt`

Command: `tr [:punct:] Z <file.txt`

Command: `tr [:digit:] Z <file.txt`

63. How to extend or shrink size of a file?

Command: `truncate -s 100M file.txt`

64. How to display following line in vertical line? ABCDE

Command: `echo "ABCDE" | fold -w1`

65. How to change user or login as different user in linux?

Command: `su <user_name>`

66. How to exit as current user or close terminal in linux?

Command: `exit`

67. If you are not root user, how to execute admin commands like installing new apps?

Command: `sudo yum install httpd`

Access Remote Servers

68. How to access remote Linux server?

Command: ssh user@hostname

69. How to copy a file to a remote Linux server?

Command: scp file user@hostname:/tmp/

Working with Permissions

70. How to check permissions of a file?

Command: ls -ltr

rwX (User) rw- (Group) r-- (Other)

71. How to modify permissions of a file?

Command: chmod a+rwX file.txt

(u - user, g - group, o - other a - all)

72. How to change ownership of a file?

Command: chown root file.txt

73. How to change group ownership of a file?

Command: chgrp paul file.txt

Memory Info

74. How to check free RAM space?

Command: free

75. How to check % Memory and CPU Utilization?

Command: top

76. How to check disk Utilization?

Command: du

77. How to check filesystem available and disk space allocated?

Command: df

System INFO

78. How to check hostname of your linux server?

Command: hostname

79. How to check cpu/core/thread info of your linux server?

Command: lscpu

80. How to check type of architecture of your linux server?

Command: arch

81. How to see list of storage devices, disk partition on your linux server?

Command: lsblk

82. How to see OS name of linux server?

Command: uname -a

Process Management

83. How to check if a process(java) is running or not?

Command: ps -ef | grep java

84. How to get PID of a process?

Command: pgrep chron

85. How to stop a process by PID?

Command: kill -9 PID

86. How to stop a process by its name?

Command: pkill httpd

87. How to see all the active jobs?

Command: jobs

88. How to resume a job in background?

Command: bg

89. How to resume a job in foreground?

Command: fg

90. How to run a script in background?

Command: nohup ./script >/dev/null &

Networking Info

91. How to check IP of your machine?

Command: ifconfig

92. How to check if a server or website is accesible or not?

Command: ping www.google.com

93. How to check if a IP:PORT is accessible and open or not?

Command: telnet IP Port

94. How to check if port is open or not on our server?

Command: netstat -putan | grep 80

95. How to check all hubs in network path to reach a website?

Command: traceroute

96. How to restart our linux server?

Command: reboot

97. How to shutdown our linux server?

Command: shutdown

User Creation

98. How to create a new user on our linux server?

Command: useradd

99. How to change password for the user?

Command: passwd

100. How to create a new group on our linux server?

Command: groupadd

101. How to check UserID or GroupID of a user?

Command: id user

102. How to delete a user or group?

Command: userdel <user>

Command: groupdel <group>

103. How to schedule a script to run on a particular date/time?

Command: at

Command: crontab

Summary

USER MANAGEMENT

- useradd
- groupadd
- usermod
- userdel
- groupdel
- passwd
- id

NETWORKING

- ifconfig
- ping
- netstat
- traceroute
- telnet

PROCESS MANAGEMENT

- sleep
- ps
- pgrep
- kill
- pkill
- jobs
- bg
- fg
- nohup

SYSTEM INFO

- hostname
- lscpu
- arch
- lsblk
- uname -a

MEMORY INFO

- top
- free
- du
- df

CHANGE USER & REMOTE SERVER ACCESS

- su
- sudo
- exit
- ssh
- scp

FILE PERMISSIONS

- chmod
- chown
- chgrp

TEXT PROCESSING

- awk
- cut
- sed
- tr
- truncate
- fold

ENV VARIABLES

- printenv
- export
- source

INSTALL & MANAGE APPLICATIONS

- apt or yum/dnf
- dpkg or rpm

- systemctl

DOWNLOAD FILES

- wget
- curl

COMPRESS DECOMPRESS

- tar
- gzip
- gunzip
- zip
- unzip

OTHER USEFUL COMMANDS

- history
- help
- man
- which
- bc
- cal
- script
- uptime
- alias

FILES & DIRECTORIES MANAGEMENT

- shuf
- wc
- diff
- cmp
- find
- locate
- cd
- cp
- mv
- grep

- egrep
- head
- tail
- sort
- uniq
- split
- cat
- less
- more
- touch
- rm
- vi
- nano
- mkdir
- rmdir

FIRST TIME ON TERMINAL

- pwd
- whoami
- date
- ls
- clear

SCRIPTING & AUTOMATION

- at
- crontab
- bash or sh

SYSTEM CONTROL

- reboot
- shutdown

FIREWALL SETTINGS

- firewall-cmd --list-all
- firewall-cmd --add-port=20201/tcp