



50 Linux Commands

Basic Commands

1. **ls** - List the files and directories in the current directory.
Usage: `ls`
 2. **cd** - Change the current directory.
Usage: `cd <directory_name>`
 3. **mkdir** - Create a new directory.
Usage: `mkdir <directory_name>`
 4. **rmdir** - Remove an empty directory.
Usage: `rmdir <directory_name>`
 5. **pwd** - Print the current working directory.
Usage: `pwd`
 6. **cp** - Copy files or directories.
Usage: `cp <source> <destination>`
Example: `cp example.txt backup/`
 7. **mv** - Move or rename files or directories.
Usage: `mv <source> <destination>`
Example: `mv example.txt backup/`
 8. **rm** - Remove files or directories.
Usage: `rm <file_name>`
 9. **touch** - Create a new empty file or update the timestamp of an existing file.
Usage: `touch <file_name>`
 10. **cat** - Concatenate and display file contents.
Usage: `cat <file_name>`
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Manuals and Processes

11. **man** - Display the manual for a command.
Usage: `man <command_name>`
 12. **htop** - Interactive process viewer and system monitor.
Usage: `htop`
 13. **top** - Display system resource usage and running processes.
Usage: `top`
 14. **ps** - Display information about running processes.
Usage: `ps aux`
 15. **kill** - Terminate a process by its PID.
Usage: `kill <PID>`
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Permissions and Ownership

16. **chmod** - Change file or directory permissions.
Usage: `chmod <permissions> <file_name>`
Example: `chmod 700 file.txt`
 17. **chown** - Change the ownership of a file or directory.
Usage: `chown <owner> <file_name>`
Example: `chown new_owner example.txt`
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Archiving and Compression

18. **tar** - Create or extract compressed archive files.
Usage: `tar <options> <archive_name> <file(s)>`
Example: `tar cf archive.tar file1 file2`
 19. **gzip** - Compress files.
Usage: `gzip <file_name>`
 20. **gunzip** - Decompress files.
Usage: `gunzip <file_name.gz>`
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Networking

21. **ping** - Test network connectivity.
Usage: `ping <IP_or_domain>`
Example: `ping 8.8.8.8`
 22. **ssh** - Securely connect to a remote server.
Usage: `ssh <user>@<host>`
 23. **scp** - Securely copy files between systems.
Usage: `scp <source> <destination>`
Example: `scp myfile.txt user@remote:/home/user/`
 24. **ifconfig** - Display or configure network interfaces.
Usage: `ifconfig`
 25. **netstat** - Display network connection information.
Usage: `netstat`
 26. **route** - View or configure routing tables.
Usage: `route`
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System Services

27. **systemctl** - Control system services.
Usage:
 - Start service: `systemctl start <service>`
 - Stop service: `systemctl stop <service>`
 - Check status: `systemctl status <service>`
 28. **service** - Manage system services (older alternative to `systemctl`).
Usage: `service <service_name> <action>`
Example: `service apache2 start`
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User Management

29. **useradd** - Add a new user.
Usage: `useradd <username>`
30. **passwd** - Set or change a user's password.
Usage: `passwd <username>`
31. **userdel** - Delete a user.
Usage: `userdel <username>`

- 32. **su** - Switch user.
Usage: `su <username>`
 - 33. **sudo** - Execute commands with elevated privileges.
Usage: `sudo <command>`
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File Systems

- 34. **df** - Display disk space usage.
Usage: `df`
 - 35. **du** - Display disk usage of files or directories.
Usage: `du`
 - 36. **mount** - Mount a filesystem.
Usage: `sudo mount <device> <mount_point>`
Example: `sudo mount /dev/sdb1 /mnt/usb`
 - 37. **umount** - Unmount a filesystem.
Usage: `sudo umount <mount_point>`
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System Info

- 38. **date** - Display or set the system date and time.
Usage: `date`
 - 39. **whoami** - Display the current user.
Usage: `whoami`
 - 40. **uname** - Display system information.
Usage: `uname`
Example: `uname -a`
 - 41. **history** - Display command history.
Usage: `history`
 - 42. **uptime** - Show how long the system has been running.
Usage: `uptime`
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Utilities

- 43. **echo** - Display text or variables.
Usage: `echo <text>`
Example: `echo 'Hello, World!'`
- 44. **tee** - Write output to both a file and the terminal.
Usage: `command | tee <file>`
Example: `ls | tee file.txt`
- 45. **locate** - Find files on the system.
Usage: `locate <file_name>`
- 46. **sort** - Sort lines of text in a file or input.
Usage: `sort <file>`
- 47. **uniq** - Remove duplicate lines from a file or input.
Usage: `uniq <file>`
- 48. **head** - Display the first few lines of a file.
Usage: `head <file>`
- 49. **tail** - Display the last few lines of a file.
Usage: `tail <file>`
- 50. **finger** - Display detailed user information.
Usage: `finger <username>`

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