|  |  |
| --- | --- |
| **Command** | **Function** |
| **ls** | Lists a directory’s content |
| **pwd** | Shows the current working directory’s path |
| **cd** | Changes the working directory |
| **mkdir** | Creates a new directory |
| **rm** | Deletes a file |
| **cp** | Copies files and directories, including their content |
| **mv** | Moves or renames files and directories |
| **touch** | Creates a new empty file |
| **file** | Checks a file’s type |
| **zip and unzip** | Creates and extracts a ZIP archive |
| **tar** | Archives files without compression in a TAR format |
| **nano, vi, and jed** | Edits a file with a text editor |
| **cat** | Lists, combines, and writes a file’s content as a standard output |
| **grep** | Searches a string within a file |
| **sed** | Finds, replaces, or deletes patterns in a file |
| **head** | Displays a file’s first ten lines |
| **tail** | Prints a file’s last ten lines |
| **awk** | Finds and manipulates patterns in a file |
| **sort** | Reorders a file’s content |
| **cut** | Sections and prints lines from a file |
| **diff** | Compares two files’ content and their differences |
| **tee** | Prints command outputs in Terminal and a file |
| **locate** | Finds files in a system’s database |
| **find** | Outputs a file or folder’s location |
| **sudo** | Runs a command as a superuser |
| **su** | Runs programs in the current shell as another user |
| **chmod** | Modifies a file’s read, write, and execute permissions |
| **chown** | Changes a file, directory, or symbolic link’s ownership |
| **useradd and userdel** | Creates and removes a user account |
| **df** | Displays the system’s overall disk space usage |
| **du** | Checks a file or directory’s storage consumption |
| **top** | Displays running processes and the system’s resource usage |
| **htop** | Works like **top** but with an interactive user interface |
| **ps** | Creates a snapshot of all running processes |
| **uname** | Prints information about your machine’s kernel, name, and hardware |
| **hostname** | Shows your system’s hostname |
| **time** | Calculates commands’ execution time |
| **systemctl** | Manages system services |
| **watch** | Runs another command continuously |
| **jobs** | Displays a shell’s running processes with their statuses |
| **kill** | Terminates a running process |
| **shutdown** | Turns off or restarts the system |
| **ping** | Checks the system’s network connectivity |
| **wget** | Downloads files from a URL |
| **curl** | Transmits data between servers using URLs |
| **scp** | Securely copies files or directories to another system |
| **rsync** | Synchronizes content between directories or machines |
| **lfconfig** | Displays the system’s network interfaces and their configurations |
| **netstat** | Shows the system’s network information, like routing and sockets |
| **traceroute** | Tracks a packet’s hops to its destination |
| **nslookup** | Queries a domain’s IP address and vice versa |
| **dig** | Displays DNS information, including record types |
| **history** | Lists previously run commands |
| **man** | Shows a command’s manual |
| **echo** | Prints a message as a standard output |
| **ln** | Links files or directories |
| **alias and unalias** | Sets and removes an alias for a file or command |
| **cal** | Displays a calendar in Terminal |
| **apt-get** | Manages Debian-based distros package libraries |