



# Linux Cheat Sheet

## Basic Commands



LINUXSIMPLY

### File and Directory Management

|                              |   |
|------------------------------|---|
| <a href="#"><u>cp</u></a>    | Copies files and directories  |
| <a href="#"><u>pwd</u></a>   | Prints the current working directory  |
| <a href="#"><u>cd</u></a>    | Changes current directory   |
| <a href="#"><u>cd..</u></a>  | Changes to the parent directory   |
| <a href="#"><u>cd -</u></a>  | Changes to the previous directory   |
| <a href="#"><u>cd ~</u></a>  | Changes to the home directory   |
| <a href="#"><u>ls</u></a>    | Lists contents of the current directory   |
| <a href="#"><u>ls -l</u></a> | Lists the files and directories in the current working directory in long format |
| <a href="#"><u>ls -a</u></a> | Lists all files and directories including the hidden ones                       |
| <a href="#"><u>ls -r</u></a> | Lists files/directories in reverse  |
| <a href="#"><u>mkdir</u></a> | Creates a new directory   |
| <a href="#"><u>rmdir</u></a> | Removes an empty directory  |
| <a href="#"><u>mv</u></a>    | Moves or renames a file /directory  |
| <a href="#"><u>rm</u></a>    | Removes a file/directory  |
| <a href="#"><u>rm -i</u></a> | Prompts system confirmation before deleting                                     |
| <a href="#"><u>rm -r</u></a> | Deletes a file/directory recursively  |
| <a href="#"><u>rm -d</u></a> | Deletes empty folders   |

### Permissions

|                              |  |
|------------------------------|--|
| <a href="#"><u>chmod</u></a> | Modifies a file or directory's read, write, and execute permissions                  |
| <a href="#"><u>chown</u></a> | Changes the ownership of a file, directory, or symbolic link to a specified username |
| <a href="#"><u>chgrp</u></a> | Changes the group ownership of a file or directory                                   |

### Package Installation

|  |  |
|--|--|
| <a href="#"><u>apt install</u></a><br><a href="#"><u>[package]</u></a> | Installs software packages from the Ubuntu package repository                          |
| <a href="#"><u>apt get</u></a>   | Performs package management tasks such as installing, upgrading, and removing packages |

### File Manipulation

|                                |   |
|--------------------------------|---|
| <a href="#"><u>touch</u></a>   | Creates an empty file/modify timestamp                  |
| <a href="#"><u>cat</u></a>     | Concatenates and prints file contents                   |
| <a href="#"><u>cat -n</u></a>  | Displays the contents of a file along with line numbers |
| <a href="#"><u>tac</u></a>     | Concatenates and prints file contents in reverse order  |
| <a href="#"><u>less</u></a>    | Shows contents in a scrollable manner                   |
| <a href="#"><u>head</u></a>    | Displays the first ten lines of a file                  |
| <a href="#"><u>tail</u></a>    | Displays the last ten lines of a file                   |
| <a href="#"><u>grep</u></a>    | Searches for a specified pattern in one or more files   |
| <a href="#"><u>nano</u></a>    | Edits and creates files                                 |
| <a href="#"><u>diff</u></a>    | Compares two text files                                 |
| <a href="#"><u>sort</u></a>    | Sorts lines of a text file                              |
| <a href="#"><u>sort -r</u></a> | Sorts file reversely                                    |
| <a href="#"><u>sort -u</u></a> | Removes duplicates and sorts unique values              |

### Control System

|                                 |                                 |
|---------------------------------|---------------------------------|
| <a href="#"><u>poweroff</u></a> | Shuts down the system           |
| <a href="#"><u>reboot</u></a>   | Restarts the system             |
| <a href="#"><u>shutdown</u></a> | Shuts down or reboot the system |

### System and Process Management

|                                |   |
|--------------------------------|---|
| <a href="#"><u>sudo</u></a>    | Allows a user to run a command with the privileges of another user    |
| <a href="#"><u>ps</u></a>      | Lists the running processes on a system                               |
| <a href="#"><u>kill</u></a>    | Terminates running processes on a system                              |
| <a href="#"><u>killall</u></a> | Terminates all processes with a specified name                        |
| <a href="#"><u>df</u></a>      | Displays the amount of disk space used and available on a file system |
| <a href="#"><u>du</u></a>      | Estimates file space usage  |



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### File Compression

|              |   |
|--------------|---|
| <u>tar</u>   | Creates, views, and extracts files from an archive file           |
| <u>zip</u>   | Creates, views, and extracts files from a compressed archive file |
| <u>unzip</u> | Extracts files from a compressed archive file in the ZIP format   |
| <u>gzip</u>  | Compresses files or directories to reduce their size              |
| <u>bzip2</u> | Compresses files or directories to reduce their size              |

### Search

|                             |  |
|-----------------------------|--|
| <u>grep 'pattern' files</u> | Searches for a specified pattern or regular expression in one or more files and display the matching lines                               |
| <u>grep -r pattern dir</u>  | Searches for a specified pattern or regular expression recursively in a directory and its subdirectories, and display the matching lines |
| <u>locate</u>               | Locates files and directories on the system  |
| <u>find</u>                 | Locates files and directories on the system  |
| <u>find -empty</u>          | Searches for empty files   |

### User Management

|                 |   |
|-----------------|---|
| <u>useradd</u>  | Create a new user account                                       |
| <u>userdel</u>  | Delete a user account   |
| <u>passwd</u>   | Change a user's password  |
| <u>groupadd</u> | Add a new group to the system                                   |
| <u>groupdel</u> | Delete an existing group from the system                        |
| <u>id</u>       | Display the user and group IDs associated with the current user |
| <u>su</u>       | Switch to another user account                                  |

### Help Documentation

|            |  |
|------------|--|
| <u>man</u> | Displays the manual page of a command or utility |
|------------|--|

### Miscellaneous

|               |   |
|---------------|---|
| <u>echo</u>   | Displays a line of text or a variable value on the command line               |
| <u>clear</u>  | Clears the terminal window  |
| <u>wc</u>     | Counts the number of lines, words, and characters in a file                   |
| <u>htop</u>   | Displays the system's process real-time process activity                      |
| <u>ping</u>   | Checks the connectivity between two network devices                           |
| <u>vim</u>    | Texts editor for editing text files   |
| <u>exit</u>   | Exits the current shell session   |
| <u>shred</u>  | Securely deletes the files by overwriting multiple times                      |
| <u>w</u>      | Displays information about the currently logged-in users and their activities |
| <u>ps</u>     | Displays the running processes  |
| <u>whatis</u> | Displays a brief description of a command                                     |
| <u>wget</u>   | Downloads files from the internet   |

### System Information

|                    |   |
|--------------------|---|
| <u>history</u>     | Displays a list of previously executed commands in the terminal             |
| <u>cal or ncal</u> | Displays the calendar of the current month                                  |
| <u>who</u>         | Displays information about currently logged-in user                         |
| <u>whoami</u>      | Displays the user name of the current user logged in                        |
| <u>uname</u>       | Displays information about the current system and                           |
| <u>hostname</u>    | Displays or set the hostname of the current system                          |
| <u>hostnamectl</u> | Queries or modifies the hostname and related settings of the current system |
| <u>date</u>        | Displays and sets system date and time                                      |
| <u>history -c</u>  | Clears the history list of previously executed commands                     |
| <u>df</u>          | Shows information about both total and available space on a file system     |