

Linux Command Notes

A comprehensive guide to commonly used Linux commands with clear explanations.

1. File & Directory Commands

Command	What It Does
<code>pwd</code>	Shows the current directory you are in (Print Working Directory).
<code>ls</code>	Lists all files and directories in the current directory.
<code>cd <directory></code>	Changes the current directory to the specified one.
<code>mkdir <directory></code>	Creates a new directory.
<code>rmdir <directory></code>	Deletes an empty directory.
<code>rm <file></code>	Deletes a file.
<code>rm -rf <file/dir></code>	Forcefully deletes files or directories, including non-empty ones.
<code>touch <file></code>	Creates a new empty file.
<code>cat <file></code>	Displays the content of a file.
<code>more <file></code>	Allows you to read a file one page at a time (forward only).
<code>less <file></code>	Allows you to read a file forward and backward.
<code>head <file></code>	Shows the first 10 lines of a file (by default).
<code>tail <file></code>	Shows the last 10 lines of a file (by default).

2. File Management

Command	What It Does
<code>cp <src> <dest></code>	Copies files or directories from source to destination.
<code>mv <src> <dest></code>	Moves or renames files/directories.
<code>nano <file></code>	Opens a terminal-based text editor to edit a file.
<code>echo <text></code>	Prints the text or variable value to the terminal.
<code>chmod 777 <file></code>	Gives all permissions (read, write, execute) to everyone for a file.
<code>chown user:group <file></code>	Changes the owner and group of a file or directory.

3. System Information

Command	What It Does
<code>uname -a</code>	Shows detailed system information including kernel version.
<code>lscpu</code>	Displays CPU information such as cores, threads, and architecture.
<code>free -h</code>	Shows memory usage in a human-readable format.
<code>df</code>	Displays available and used disk space.
<code>du</code>	Shows disk usage of files and directories.
<code>lsblk</code>	Lists all block devices like disks and partitions.
<code>top</code>	Displays real-time system performance, CPU and memory usage.
<code>htop</code>	Enhanced version of top with interactive options and search.

4. User & Session Commands

Command	What It Does
<code>whoami</code>	Displays the current logged-in user.
<code>who</code>	Shows all users currently logged into the system.
<code>tty</code>	Displays the terminal you are using (e.g., <code>tty1</code> , <code>tty2</code>).
<code>ctrl + alt + F1-F7</code>	Switches between different terminal sessions.

5. Networking Commands

Command	What It Does
<code>ping <host></code>	Checks network connectivity to a host.
<code>ip a</code>	Displays IP addresses and network interface information.
<code>ip route</code>	Shows the system routing table.

6. Package Management (Debian/Ubuntu)

Command	What It Does
<code>apt</code>	The package manager to install, update, and remove software.
<code>sudo apt update</code>	Updates the package repository information.

7. Services & Background Commands

Command	What It Does
<code>systemctl start <service></code>	Starts a specific system service.
<code>tmux</code>	Opens a terminal multiplexer to manage multiple terminal sessions in one window.