

■ Linux Important Commands Cheat Sheet

■ File & Directory Management

- **pwd** → print current working directory
- **ls** → list files (ls -l for details, ls -a for hidden files)
- **cd folder** → change directory
- **mkdir new_folder** → create directory
- **rmdir folder** → remove empty directory
- **touch file.txt** → create empty file
- **cp file1 file2** → copy file
- **mv file1 file2** → move/rename file
- **rm file.txt** → delete file
- **find /path -name file.txt** → search for a file

■ Viewing & Editing Files

- **cat file.txt** → show file contents
- **less file.txt** → view file page by page
- **head file.txt** → first 10 lines
- **tail file.txt** → last 10 lines (tail -f for live logs)
- **nano file.txt** → edit file in nano editor
- **vim file.txt** → edit file in vim editor

■ User Management

- **whoami** → current logged-in user
- **who** → all logged-in users
- **id** → show user ID & groups
- **adduser name** → create new user
- **passwd name** → change user password
- **su user** → switch user
- **exit** → logout

■ Permissions

- **ls -l** → show permissions (r=read, w=write, x=execute)
- **chmod 755 file** → change permissions
- **chown user:group file** → change file ownership

■■ System Info

- **uname -a** → system info
- **hostname** → computer name
- **uptime** → how long system is running
- **df -h** → disk space usage
- **du -sh folder** → folder size
- **free -h** → RAM usage
- **top** → running processes
- **htop** → better process monitor (if installed)

■ Package Management (Ubuntu/Debian)

- **sudo apt update** → update package list
- **sudo apt upgrade** → upgrade packages
- **sudo apt install name** → install package
- **sudo apt remove name** → remove package
- **(yum/dnf)** → RedHat/CentOS package managers

■ Networking

- **ping google.com** → test internet connection
- **ifconfig / ip a** → show IP address
- **curl http://site.com** → fetch webpage
- **wget http://site.com/file** → download file
- **ssh user@host** → remote login

■ Processes & Jobs

- **ps** → show running processes
- **ps aux** → detailed process list
- **kill PID** → kill process by ID
- **killall name** → kill process by name
- **jobs** → background jobs
- **fg %1** → bring job to foreground
- **bg %1** → run job in background

■ Superuser & Sudo

- **sudo command** → run as admin
- **su** → switch to root user

■ Compression & Archiving

- **tar -cvf file.tar files** → create tar archive
- **tar -xvf file.tar** → extract tar archive
- **gzip file** → compress file
- **gunzip file.gz** → uncompress file