

# Linux Basic Commands Cheat Sheet

## File & Directory Management

<code>ls</code>	- List directory contents
<code>cd &lt;dir&gt;</code>	- Change directory
<code>pwd</code>	- Print working directory
<code>mkdir &lt;dir&gt;</code>	- Create new directory
<code>rm &lt;file&gt;</code>	- Remove file
<code>rm -r &lt;dir&gt;</code>	- Remove directory and contents
<code>cp &lt;src&gt; &lt;dst&gt;</code>	- Copy file or directory
<code>mv &lt;src&gt; &lt;dst&gt;</code>	- Move or rename file
<code>touch &lt;file&gt;</code>	- Create empty file

## File Viewing & Searching

<code>cat &lt;file&gt;</code>	- View file content
<code>less &lt;file&gt;</code>	- View file with paging
<code>head &lt;file&gt;</code>	- View first lines
<code>tail &lt;file&gt;</code>	- View last lines
<code>grep 'pattern' file</code>	- Search text in file
<code>find . -name '*.txt'</code>	- Find files by name
<code>locate &lt;file&gt;</code>	- Find file using database

## Text Processing

<code>cut -d':' -f1 /etc/passwd</code>	- Cut field using delimiter
<code>awk '{print \$1}' file</code>	- Print first column
<code>sed 's/old/new/g' file</code>	- Replace text in file
<code>sort file.txt</code>	- Sort lines in file
<code>uniq file.txt</code>	- Remove duplicate lines
<code>tr a-z A-Z</code>	- Translate characters
<code>wc -l file.txt</code>	- Count lines
<code>xargs</code>	- Build command line from input
<code>tee file.txt</code>	- Redirect output to file and stdout

## Permissions & Ownership

<code>chmod 755 file</code>	- Set file permissions
<code>chown user:group file</code>	- Change file owner
<code>ls -l</code>	- View file permissions

## Package Management (Debian-based)

# Linux Basic Commands Cheat Sheet

<code>sudo apt update</code>	- Update package index
<code>sudo apt upgrade</code>	- Upgrade packages
<code>sudo apt install &lt;pkg&gt;</code>	- Install package
<code>sudo apt remove &lt;pkg&gt;</code>	- Remove package
<code>dpkg -i &lt;file&gt;.deb</code>	- Install .deb file

## Processes & Services

<code>ps aux</code>	- List all processes
<code>top</code>	- Real-time process monitor
<code>htop</code>	- Interactive process viewer
<code>kill &lt;PID&gt;</code>	- Terminate process
<code>systemctl status &lt;service&gt;</code>	- Check service status
<code>systemctl start &lt;service&gt;</code>	- Start service
<code>systemctl stop &lt;service&gt;</code>	- Stop service

## Networking

<code>ping &lt;host&gt;</code>	- Ping a host
<code>ip a</code>	- Show IP addresses
<code>netstat -tulnp</code>	- List network connections
<code>ss -tuln</code>	- Socket statistics
<code>curl &lt;url&gt;</code>	- Fetch URL content
<code>wget &lt;url&gt;</code>	- Download files
<code>ssh user@host</code>	- Remote login

## Disk & Filesystem

<code>df -h</code>	- Disk usage
<code>du -sh *</code>	- Size of folders/files
<code>mount</code>	- Mount file system
<code>umount</code>	- Unmount file system
<code>lsblk</code>	- List block devices
<code>fdisk -l</code>	- List partitions

## Users & Groups

<code>adduser &lt;user&gt;</code>	- Add user
<code>deluser &lt;user&gt;</code>	- Delete user
<code>usermod -aG &lt;group&gt; &lt;user&gt;</code>	- Add user to group
<code>groups &lt;user&gt;</code>	- List user groups

# Linux Basic Commands Cheat Sheet

whoami

- Current user

## Archiving & Compression

tar -czvf archive.tar.gz dir/

- Create compressed archive

tar -xzvf archive.tar.gz

- Extract archive

zip -r file.zip dir/

- Create zip file

unzip file.zip

- Extract zip file

## Scripting & Automation

#!/bin/bash

- Start a shell script

crontab -e

- Edit cron jobs

at now + 1 min

- Schedule one-time task

trap 'echo exiting' SIGINT

- Catch signals