

# **Linux Terminal Commands Cheat Sheet**

## **Basic Terminal Commands**

`pwd` - Show current directory path

`ls` - List files in directory

`cd` - Change directory

`echo` - Print text or variable

`clear` - Clear terminal screen

`exit` - Close the terminal session

## **File and Directory Operations**

`touch file` - Create an empty file

`mkdir dir` - Create a new directory

`rmdir dir` - Remove empty directory

`rm file` - Delete a file

`rm -r dir` - Delete a directory and its contents

`cp source dest` - Copy file or directory

`mv source dest` - Move or rename file/directory

`cat file` - Display file content

`more file, less file` - View file content with paging

`head file` - View first lines

`tail file` - View last lines

## **File and Text Searching**

`find . -name "file"` - Search for files

`grep "text" file` - Search text inside files

`locate file` - Fast file searching

## **File Permissions and Ownership**

`chmod` - Change file permissions

`chown` - Change file ownership

`ls -l` - View file permissions and details

## **Conditional Operators in Shell**

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- e file - File exists
- f file - Regular file exists
- d dir - Directory exists
- r file - File is readable
- w file - File is writable
- x file - File is executable
- eq - Equal (numeric)
- ne - Not equal
- gt - Greater than
- lt - Less than
- ge - Greater than or equal
- le - Less than or equal

## System Info and Monitoring

- top - Real-time process monitor
- htop - Enhanced process viewer
- ps - View running processes
- df - Disk usage
- du - Directory/file size
- free - Memory usage
- uptime - System running time
- uname -a - System information

## Package Management

- apt update / dnf update - Update package lists
- apt install packagename / dnf install packagename - Install package
- apt remove packagename / dnf remove packagename - Remove package

## User Management

- whoami - Current logged-in user
- id - UID, GID, and groups of user
- adduser / useradd - Add a new user

# **Linux Terminal Commands Cheat Sheet**

passwd - Change user password

su - Switch user

sudo - Run command as superuser

## **Archives and Compression**

tar -cvf - Create tar archive

tar -xvf - Extract tar archive

gzip, gunzip - Compress/decompress .gz

zip, unzip - Work with .zip files

## **Networking**

ping - Check connectivity

ip a / ifconfig - Show IP address

netstat -tuln / ss -tuln - Show open ports

curl, wget - Download from web

## **Scripting Basics**

#!/bin/bash - Define script interpreter

if, else, elif - Conditional logic

for, while, until - Loops

read - Take user input

\$1, \$2, ... - Positional parameters

function\_name () { ... } - Define a function