

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

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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