

# Basic Linux Commands Cheat Sheet

## File and Directory Management

ls - List files and directories

cd dir - Change to directory 'dir'

pwd - Print current working directory

mkdir dir - Create a new directory

rmdir dir - Remove an empty directory

rm file - Delete a file

rm -r dir - Delete a directory and contents

touch file - Create an empty file

cp file1 file2 - Copy file1 to file2

mv file1 file2 - Move or rename a file

cat file - View file contents

nano file - Open file in nano editor

vim file - Open file in vim editor

## User and Permissions

whoami - Show current user

id - Show user and group info

chmod 755 file - Change file permissions

chown user:group file - Change file ownership

## Process and System Info

ps - Show running processes

top - Real-time system monitor

kill PID - Kill a process by PID

uptime - Show system uptime

df -h - Show disk space usage

free -h - Show memory usage

## Network Commands

ping host - Check network connectivity

ip a - Show IP addresses

netstat -tuln - Show open ports

ssh user@host - Connect to remote server via SSH

scp file user@host:/path - Securely copy file to remote host

## **Package Management (Ubuntu/Debian)**

sudo apt update - Update package list

sudo apt install package - Install a package

sudo apt remove package - Remove a package

## **Search and Find**

find /path -name file - Find file in directory

grep 'text' file - Search for text in file

## **Scripting and Execution**

./script.sh - Run shell script

chmod +x script.sh - Make script executable