Basic Navigation Commands

pwd: Print Working Directory. Shows the current directory path.

Is: List files and directories in the current directory.

Is -I: List files in long format.

Is -a: List all files including hidden files.

cd <directory> : Change Directory. Move to the specified directory.

cd .. : Move up one directory.cd ~ : Move to the home directory.

tree: Displays directory structure in a tree-like format (requires tree package).

File Management Commands

touch <filename> : Create an empty file or update the timestamp of the file.

file <filename> : determines the type of file

mkdir <directory> : Make Directory. Create a new directory.

rm <filename> : Remove file.

rm -r <directory>: Remove the directory and its contents recursively.

cp <source> <destination> : Copy file or directory.

cp -r <source_directory> <destination_directory> : Copy directories recursively.

mv <source> <destination> : Move or rename file or directory.

Viewing and Editing Files

cat <filename> : Concatenate and display the content of a file.

find <path> -name <pattern> : Searching for files & directories in a directory.

more <filename> : View file content one screen at a time. less <filename> : View file content with backward navigation.

nano <filename> : Open file in the nano text editor. vim <filename> : Open file in the vim text editor.

System Information Commands

uname -a: Display detailed system information.

hostname: Displays the system's hostname.

Iscpu: Provides detailed information about the CPU architecture.

Isusb: List all devices connected to the USB system.

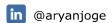
htop: An interactive process viewer (requires htop package).

du -h : displays disk space usage for files

df -h : Display disk space usage in a human-readable format. free -h : Display memory usage in a human-readable format.

uptime: Show how long the system has been running.

whoami: Display the current logged-in username.









Networking Commands

ifconfig: Display network interface configuration.

ping <hostname> : Send ICMP ECHO_REQUEST packets to network hosts.

netstat -tuln : Display listening ports and services.

curl <url> : Transfer data from or to a server using various protocols.

wget <url> : Retrieve files from the web.

nmtui: Provides a text-based user interface for managing network connections.

Package Management (Ubuntu: apt, Kali: apt-get)

sudo apt update: Update package list.

sudo apt upgrade : Upgrade all installed packages. sudo apt install <package> : Install a new package. sudo apt remove <package> : Remove a package. sudo apt autoremove : Remove unnecessary packages.

Permissions and Ownership

chmod <permissions> <filename> : Change file permissions.

chmod +x <filename> : Make a file executable.

chown <user>:<group> <filename> : Change file owner and group.

chgrp <group> <file_or_directory> : Change group ownership of a file or directory.

Process Management

ps: Display currently running processes.

top: Display real-time, dynamic view of running processes.

jobs: Lists all jobs running in the current shell session.

cron: Schedules repeated tasks using a file.

ps aux : Display detailed information about all running processes.

kill <pid> : Terminate a process by its Process ID (PID).

kill -9 <pid> : Forcefully terminate a process.

pkill rocess_name> : Terminate processes by name.

Finding Files and Content

find <path> -name <pattern> : Find files by name.

grep <pattern> <file> : Search for a pattern within a file.

grep -r <pattern> <directory> : Recursively search for a pattern in a directory.

