

Basic Navigation Commands

`pwd` : Print Working Directory. Shows the current directory path.
`ls` : List files and directories in the current directory.
`ls -l` : List files in long format.
`ls -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.
`lscpu` : Provides detailed information about the CPU architecture.
`lsusb` : 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.

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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 <process_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.

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