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Home Work 1

man , help Navigation in the Filesystem:

* **pwd**: Prints the current working directory.
* **ls**: Lists files and directories in the current directory.
* **cd**: Changes the current directory.
* **mkdir**: Creates a new directory.
* **rmdir**: Removes an empty directory.
* **rm**: Removes files or directories.
* **mount**: Mounts a file system.
* **umount**: Unmounts a mounted file system.
* **df**: Displays information about disk space usage.
* **lsblk**: Lists information about block devices.

**Manipulating the Filesystem:**

**uname**: Displays system information.

* **ps**: Displays information about active processes.
* **pstree**: Displays a tree of processes.
* **kill**: Sends a signal to terminate a process.
* **shutdown**: Shuts down or restarts the system.
* **time**: Measures the time taken by a command.
* **top**: Displays real-time information about system resources.
* **uptime**: Shows how long the system has been running.
* **date**: Displays or sets the system date and time.

File Manipulation:

* **touch**: Creates an empty file or updates the timestamp of an existing file.
* **cat**: Concatenates and displays the content of files.
* **head**: Displays the beginning of a file.
* **tail**: Displays the end of a file.
* **cp**: Copies files or directories.
* **mv**: Moves or renames files or directories.
* **comm**: Compares two sorted files line by line.
* **more** / **less**: Paginates through a text file.
* **ln**: Creates hard or symbolic links.
* **cmp**: Compares two files byte by byte.
* **alias**: Creates or lists command aliases.
* **tar**: Archives files and directories.
* **gzip**: Compresses or decompresses files.

Search

* **find**: Searches for files and directories.
* **grep**: Searches for patterns in text.
* **sed**: Stream editor for text manipulation.
* **which**: Shows the full path of shell commands.
* **locate**: Finds the location of files.

I/O; File Ownership:

* **clear**: Clears the terminal screen.
* **echo**: Displays text on the terminal.
* **sort**: Sorts lines of text.
* **sudo**: Executes a command with elevated privileges.
* **chmod**: Changes file permissions.
* **chown**: Changes file ownership.
* Network Admin:  
  **ip**: Shows and manipulates IP addresses and routing.
* **ifconfig**: Configures network interfaces.
* **netstat**: Displays network statistics.
* **wget**: Downloads files from the internet.
* **iptables**: Manages firewall rules.
* **ping**: Sends ICMP echo requests to test network connectivity.
* **traceroute**: Traces the route of packets across a network.
* **whois**: Retrieves information about a domain or IP address.
* **curl**: Transfers data with URLs.

Others:

* **crontab**: Manages cron jobs.
* **read**: Reads a line from the standard input.
* **passwd**: Changes user password.
* **sh**: Shell, a command interpreter.
* **exit**: Exits the current shell session.
* **logout**: Logs out of the current session.
* **shutdown**: Shuts down or restarts the system.
* **who**: Shows who is logged in.
* **whoami**: Displays the current username.
* **nano**, **vi**, **vim**: Text editors.

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