Linux Practical Work

Perform the following tasks practically on your Linux system or VM, and submit a detailed report with screenshots demonstrating each step.

1. Directories and Files Management

- Create a directory named LinuxCourse in your home directory.
- Inside LinuxCourse, create three subdirectories named scripts, logs, and configs.
- Within configs, create an empty hidden file named .config.
- Verify creation using the 1s command to display hidden files.

2. File Creation and Editing

- Using the cat command, create a file named notes.txt containing: "Linux is essential for cybersecurity professionals."
- Create an empty file named script.sh in the scripts directory using touch.

3. Navigation and Path Exploration

- Use the cd command to navigate to the logs directory from your home directory using a relative path.
- From logs, print your current working directory with pwd.
- Return to your home directory directly using cd.

4. Searching and Monitoring

- Using grep, search for the word "Linux" in the file notes.txt.
- Find all .txt files in your LinuxCourse directory using the find command.

5. Administrative Privileges

- Using sudo, update your system package repository.
- Attempt to switch to the root user temporarily using su (if applicable). Demonstrate this action through a screenshot (or explain if restricted).

6. Cleaning Up

- Delete the hidden file .config from configs using the rm command.
- Verify deletion.