Linux OS Automation

Question 3

ITLXA0-44

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Introduction

In this project, we'll create a simple shell script to help me clean up old log files from my computer. My main objective is to move old .log files older than 7 days to a safe place called the archive folder.
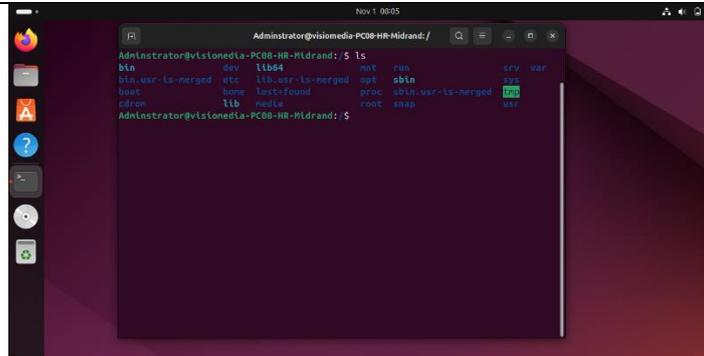
The script will also make a report showing the date it ran, which files were moved, and if there were any problems.

Locate Archive Directory

Open the terminal on your Ubuntu virtual machine.
Check for the directory in the root folder.
If the you don't see it that means you need to create it.
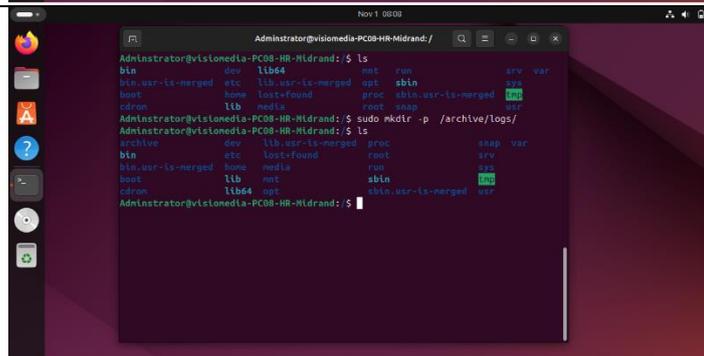

Create The Archive Directory

Use the terminal to create the folder.
Type sudo mkdir -p /archive/logs and press Enter.
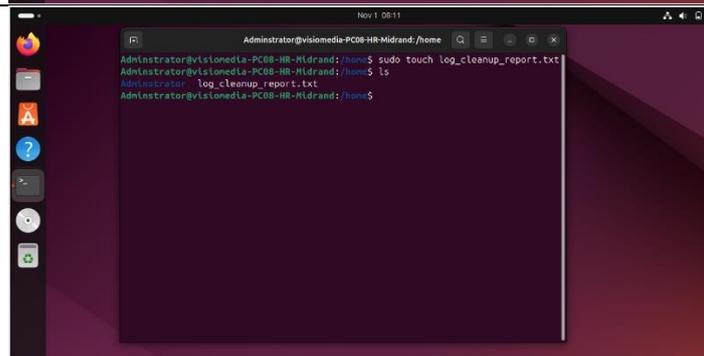This will make the required folder to store your old log files.

Create Log Report .txt File

The report file will be named log_cleanup_report.txt and saved in your home directory.

Create a Script Folder
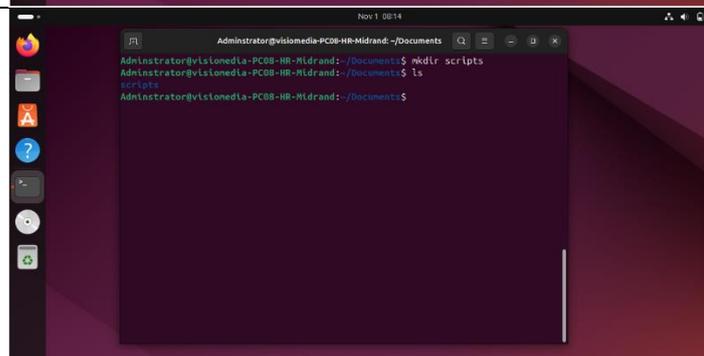
In your home directory, go to Documents and create a folder named scripts.
Use the command mkdir /Documents/scripts to make the folder.
This is where I will keep all my scripts.

Create the Script document .sh Inside the scripts folder, create a new file called log_cleanup_report.sh. You can do this by typing sudo touch log_cleanup_report.sh	
Script commands (Date parameter) The script will use a number of days to decide which log files are old, it will use 7 days for this script.	
Script Commands (List of files moved) When the script runs, it will search the system for .log files older than 7 days. Those files will be moved to /archive/logs/.	
Script Commands (Output message) After the cleanup is done, the terminal will display a message confirming that the process completed successfully or if something went wrong. The message will also tell you where the report file was saved.	
Make Script Executable (chmod +x) Before running the script, make it executable. Use the command chmod +x log_cleanup_report.sh. This allows the system to run your script as a program.	

Run Script

Now it's time to run the log_cleanup_report.sh cleanup script.
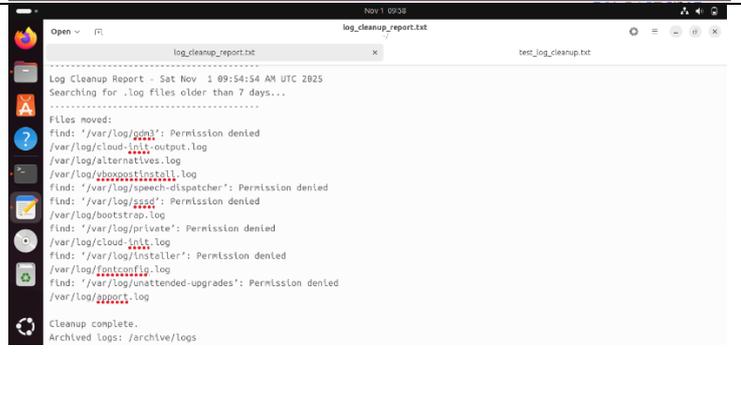While still in the scripts folder type the I will type the following ./log_cleanup_report.sh.
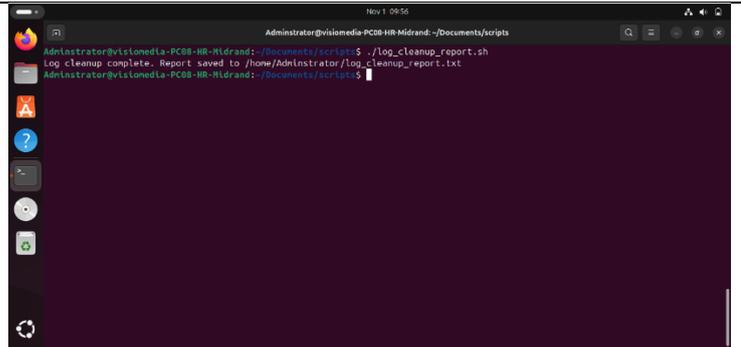
Script output on the log_cleanup_report.txt

When the script finishes, it will log the details of what the scripted has done in a file called log_cleanup_report.txt.
This report will include the date and time the script ran, a list of files that were moved, and any errors that happened.