



prep week: BASH

BASH basics

The following exercise contains the following subjects:

- BASH basics

Instructions

1. Scenario: Analyzing Server Logs

As an aspiring bash developer, you've been tasked with analyzing server logs for a website. You'll use various bash commands to navigate through logs, extract useful information, and generate reports.

1. Start by creating a directory named "ServerLogs" using the ``mkdir`` command.
2. Move into the "ServerLogs" directory using the ``cd`` command.
3. Inside the directory, create three subdirectories: "AccessLogs," "ErrorLogs," and "Reports."
4. Use the ``ls`` command to list the contents of the "ServerLogs" directory. What do you see?
5. Move into the "AccessLogs" directory using the ``cd`` command.
6. Create a sample access log file named "access.log" using the ``touch`` command.
7. Display the first 10 lines of the access log using the ``head`` command.
8. Use the ``grep`` command to find all lines containing "GET" requests in the access log.
9. Move back to the "ServerLogs" directory.





10. Create a script named "generate_report.sh" that calculates the number of "POST" requests in the access log and saves the count to a file in the "Reports" directory.
11. Make the script executable using the ``chmod`` command.
12. Run the script on the access log and observe the generated report file.
13. Move into the "ErrorLogs" directory.
14. Create a file named "error_summary.txt" using the ``touch`` command.
15. Use the ``find`` command to locate all error log files in the "ErrorLogs" directory and its subdirectories.
16. Append the names of the error log files to "error_summary.txt" using the ``echo`` command.
17. Calculate the total disk usage of the "ServerLogs" directory using the ``du`` command.
18. Use the ``pwd`` command to display the current directory path and redirect the output to a file named "Location.txt."

2. send me the answers in pdf format to yishain11@gmail.com. Later in the course you will upload the answers to moodle.