DevOps Vault Mentorship Program

Advanced Bash Scripting Hands-On Questions

1. Write a bash script to monitor a directory for any new files created. The script should log the names of the new files along with the timestamp of their creation to a log file.

- *(Hint: Use inotifywait command with a while loop.)*

2. Create a bash script that reads a list of URLs from a file and checks if they are accessible (status code 200). The script should log the results (accessible or not) to another file.

- *(Hint: Use curl command with -o /dev/null -s -w "%{http_code}" options.)*

3. Develop a bash script that parses a log file to find all the IP addresses and counts the number of occurrences of each IP address. The results should be sorted by the number of occurrences.

- *(Hint: Use grep, awk, sort, and uniq commands.)*

4. Create a bash script that sends an email alert when the disk usage of any partition exceeds a specified threshold. The script should include the partition name and the current usage percentage in the email.

- *(Hint: Use df, awk, and mail commands.)*

5. Write a bash script to rotate logs. The script should compress the current log file, archive it with a timestamp, and create a new empty log file.

- *(Hint: Use gzip, mv, and touch commands.)*

6. Develop a bash script to search for a specific pattern in all files within a directory and its subdirectories. The script should print the file names and the line numbers where the pattern is found.

- *(Hint: Use grep with -r and -n options.)*

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7. Create a bash script that reads a CSV file and converts it into a JSON format. The script should handle multi-line CSV files and produce a valid JSON output.

- *(Hint: Use awk or python within the bash script.)*

8. Write a bash script to check if a list of services are running on a server. The script should take a list of service names as input and print whether each service is running or stopped.

- *(Hint: Use systemctl or service commands.)*