

Title: Shell Scripting & Linux Interview Questions for DevOps Engineers

Day 10 of 100 Days of DevOps Challenge

Shell scripting is a critical skill for DevOps engineers, and this document highlights frequently asked interview questions, practical examples, and key concepts to prepare you for success.

Interview Questions

1. Common Commands

- ls, cp, mv, mkdir, and grep
- Example: How do you use grep to find lines containing "error" in a file?

2. Writing Scripts

- Write a script to list all processes:
- `ps -ef | awk '{print $2}'`

3. Retrieving Logs

- Fetch and filter logs:
- `curl <URL> | grep "error"`

4. Scheduling Tasks

- Use crontab for scheduling:
- `0 6 * * * /path/to/script.sh`

5. File Management

- What are the differences between hard links and soft links? Provide examples of when to use each.

6. Loops and Conditionals

- How would you write a loop to display numbers divisible by 3 and 5 but not by 15?

7. Log Rotation

- Manage log rotation using logrotate.

8. Debugging

- How do you debug a shell script? Discuss set -x and echo.
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