Title: Advanced Shell Scripting for DevOps Engineers

Day 9 of the 100 Days of DevOps Challenge

Shell scripting forms the backbone of automation in DevOps, enabling efficient system management and task automation.

Core Concepts

1. System Monitoring Commands:

odf: Monitor disk usage.

o free: Check memory status.

nproc: Display available CPU cores.

top: Real-time process monitoring.

2. Effective Script Writing:

- Include metadata for clarity.
- Follow naming conventions.
- Use comments liberally.

3. Debugging Techniques:

 Leverage set -x for real-time command tracing.

4. Signal Handling with Trap:

Use trap to handle interruptions gracefully.

5. Error Handling:

 Utilize set -e and set -o pipefail to avoid cascading errors.