CI/CD REAL-WORLD INTERVIEW HANDBOOK

Full Expanded Edition — Volume 1 (Questions 1–100)

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Chapter 1 — Full Expanded CI/CD Foundations (1–100)

1. What is CI/CD?
CI/CD is a DevOps practice combining Continuous Integration and Continuous Delivery/Deployment to automate code integration, testing, packaging, and deployment.

2. Why CI/CD is important?
It reduces release risk, increases deployment frequency, improves code quality, and eliminates manual steps.

3. CI vs CD?
CI = automatic merging, building, and testing. CD = delivering or deploying to production automatically.

4. Core components of a CI/CD pipeline?
SCM, build system, automated tests, artifact repository, deployment engine, monitoring stack.

5. Why automate deployments?
To avoid human errors and increase consistency, traceability, and rollback safety.

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