

CICD Fundamentals

Topics:

- CI/CD principles and tools (Jenkins, GitLab CI).
- Setting up pipelines for build, test, deploy.

Assignments:

1. Build a CI/CD pipeline using Jenkins to:
 - Pull code from GitHub.
 - Run unit tests automatically.
 - Build and deploy a Docker container to a staging environment.
2. Integrate notifications:
 - Configure Jenkins to send Slack/email alerts on pipeline failures.