



# CICD For UdaPeople


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# Current Problem

- ▶ High correction cost: Need a lot effort on tracking and fixing defects when code are merged.
- ▶ High risk: Only 1 member knows how to deploy may lead to boring and can have human mistakes.
- ▶ Waste time: Waste time to fix bugs and deploy. After bugs are fixed, we need so much time to verify and the deployment time maybe very long.



# Introducing CI/CD

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- The background features a large, stylized infinity loop diagram representing the CI/CD pipeline. The left loop is dark blue and labeled 'CI' in the center, with stages 'CODE', 'PLAN', 'BUILD', and 'TEST' around its perimeter. The right loop is light blue and labeled 'CD' in the center, with stages 'RELEASE', 'DEPLOY', 'OPERATE', and 'MEASURE' around its perimeter. The two loops are interlocked, symbolizing the continuous nature of the process.
- ▶ CI: Continuous Integration
    - Dev team can integrate code frequently
    - Code is automatically built
    - => Saving time to debug
  - ▶ CD: Continuous Delivery
    - Using pipeline for automatic deployment
    - => Saving time, reducing effort and mistakes, shorting time to production.



# CICD Advantages

- ▶ Faster delivery: Release earlier -> get profit earlier.
- ▶ Reduce cost: Saving time to develop is saving money.
- ▶ Protect revenue: High availability system can reduce downtime can make the customer happy.

