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 CICD

- 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.