CICD for UdaPeople

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Agenda

1. Our problem
2. Introducing CICD
3. CICD Benefits

Our Problem

High correction cost:
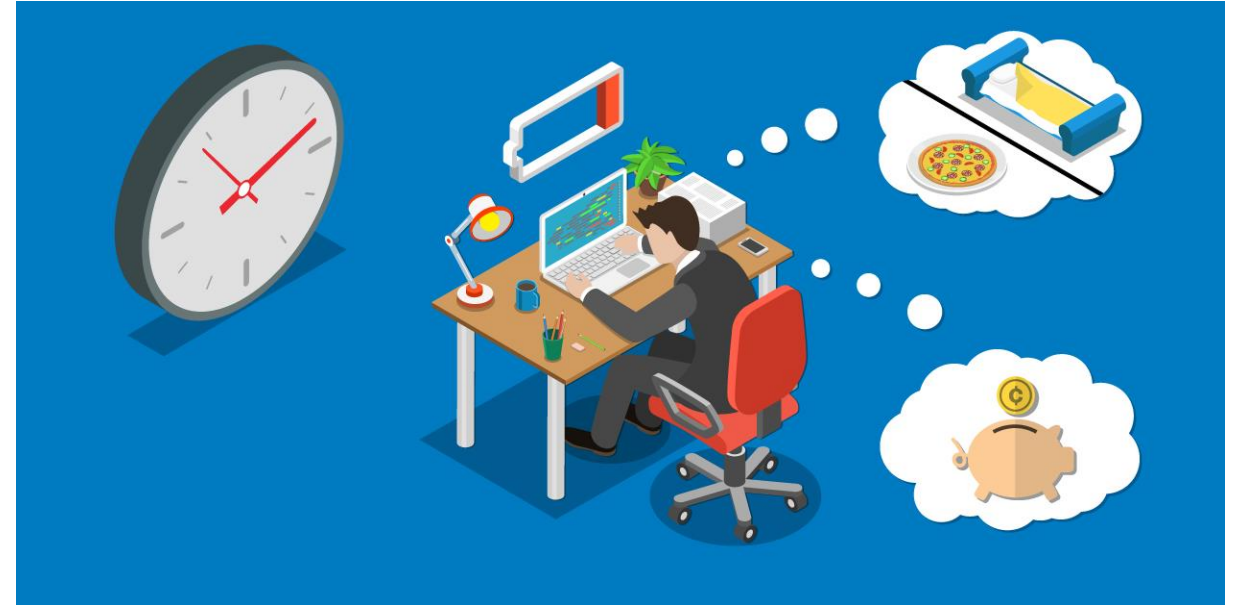- Defects often found last minutes when the team merge all their works together.

Long time to market:
- The team works over night on every deployment day.
- Deployment time is long (2 hours) – the team has to wait => It's waste.

High risk:
- Human mistake while doing deployment manually
- Only 1 person knows how to deploy the app. He is not allowed to be sick!!!
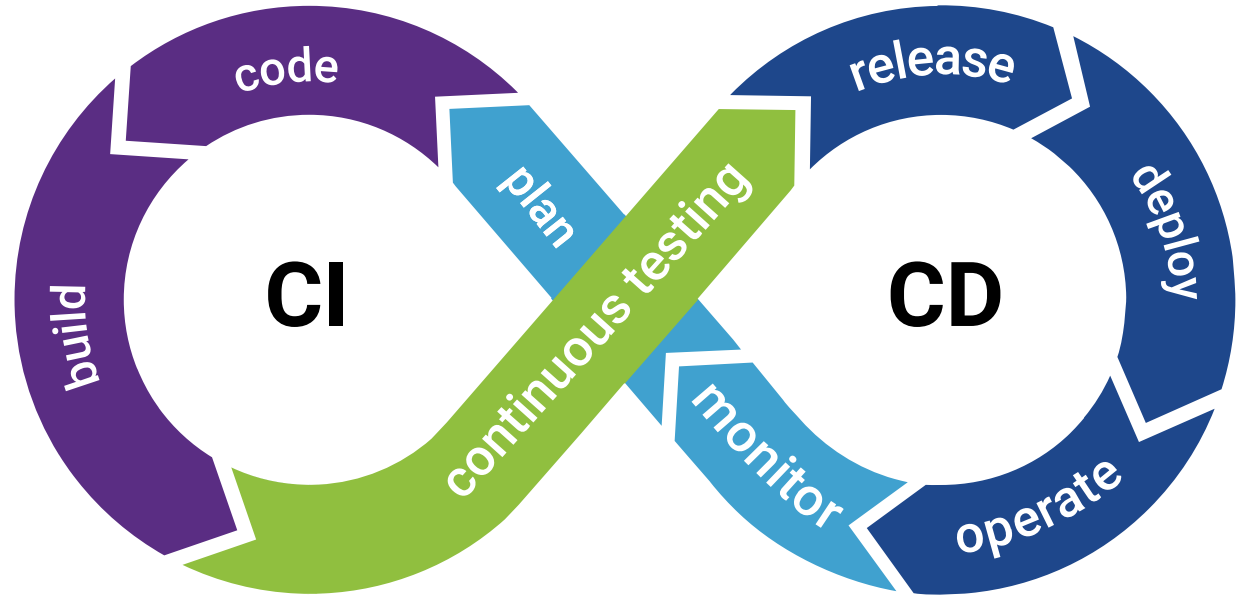
Introducing CICD

CI: Continuous Integration
- Developers integrate code frequently.
- Each check-in is then verified by an automated build

=> Allowing teams to detect problems early.

CD: Continuous Delivery
- Automate all steps of deployments.
- Production deployment on demand.

=> Save time, reduce chance of human mistake, shorter time to market.

CICD benefits

Reduce development cost
Saving development time is saving money
- *Fail fast, recover even faster.*
- *Increasing productivity of development team.*
- *Saving system monitoring efforts as it's automated with tools.*

The Cost of Defects

Fix Earlier, reduce cost

Implementation | Unit Testing | Integration Testing | System Testing | In-service

Protect revenue
Higher system availability for our end users.
- *Reduce system down time for maintenance (deployment/rollback).*
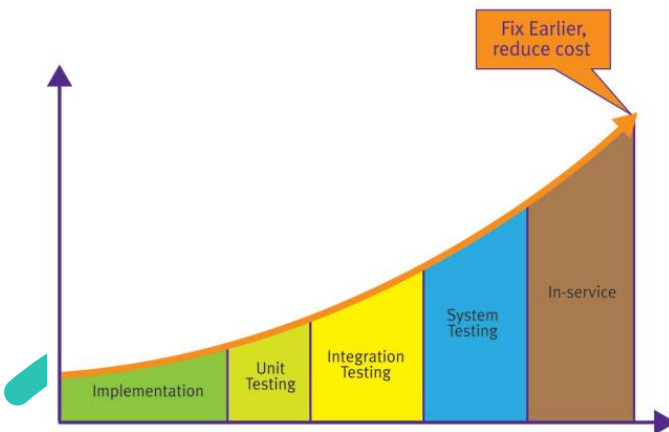- *Production outage is detected early using automated monitoring and alerts system.*

Faster Time to Market
Make us more advantage than our competitors.
- *Release product earlier -> get feedbacks earlier & create revenue earlier.*
- *Our clients are happier as we deliver new bug fixes or new features more frequent.*

Thank you

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