

Udacity Cloud DevOps Engineer Nanodegree Program

Project: Give Your Application Auto-Deploy Superpowers

BEFORE WE BEGIN

The clients' needs

Rapid releases with high quality.

-> We have to develop & deploy product as fast as possible.

Problems during development

Have you ever heard something like:

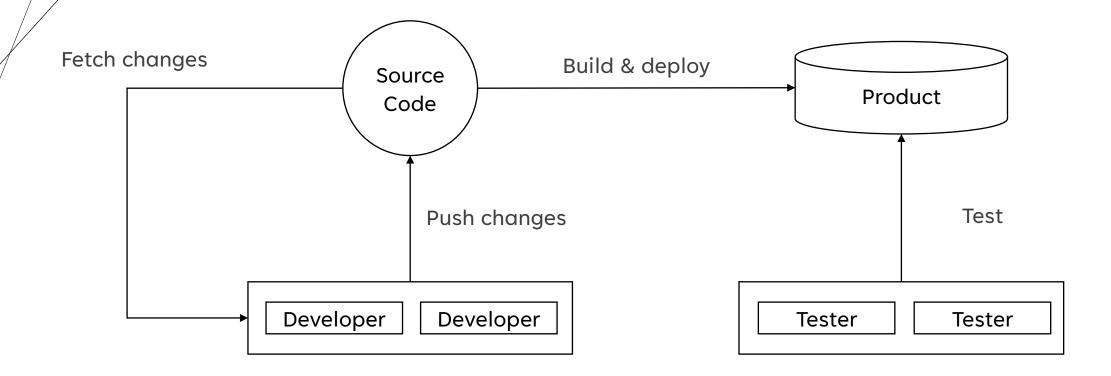
It's still running on my machine

That is probably Human errors

It was working yesterday, I swear!

I followed the instruction, but the build went wrong!

Where we make mistakes



All steps are done manually & test is performed too late.

WHAT IS CI/CD

CI: Continuous integration

Purpose: Application do not break after new merging

CD: Continuous delivery and continuous deployment

Automation testing

Automated release process and automatic deploy to production

COST & GAIN

Gain

- Detect bug early (less bug)
- o Reduce testing cost
- o Reduce human errors
- o Release more often & less risky

Cost

- Write automated test
- Setup CI/CD system
- Commit/push changes frequently
- o A strong CI
- o Testing is the culture