UDAPEOPLE CI/CD

CI/CD **allows organizations to ship software quickly and efficiently**

overview

- What are our current issues ?
- What does CI/CD mean ?
- How does CI/CD work ?
- What's the difference between CI and CD (and the other CD)?
- CI\CD benefits for cost and revenue.

What are our current issues ?

- Delaying of releasing the new features.
- Setting up the infrastructure and monitoring it manually.
- A lot of manual test before each release.
- We are not safe against security vulnerabilities.
- A lot of human effort and wasting time.
- Errors could happen or some configurations could be missing.

What does CI/CD mean ?

- CI/CD is a method to frequently deliver apps to customers by introducing automation into the stages of app development. The main concepts attributed to CI/CD are continuous integration, continuous delivery, and continuous deployment. CI/CD is a solution to the problems integrating new code can cause for development and operations teams (AKA "integration hell").

- Specifically, CI/CD introduces ongoing automation and continuous monitoring throughout the lifecycle of apps, from integration and testing phases to delivery and deployment. Taken together, these connected practices are often referred to as a "CI/CD pipeline" and are supported by development and operations teams working together in an agile way with either a DevOps or site reliability engineering (SRE) approach.

How does CI/CD work ?
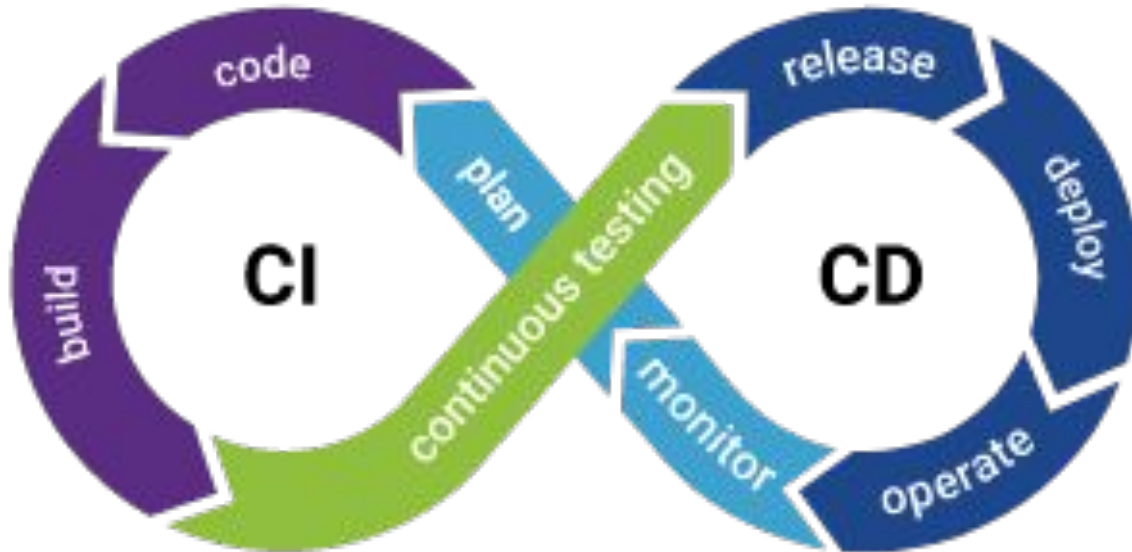
What's the difference between CI and CD (and the other CD)?

- CI\CD benefits for cost and revenue.

Benefits	Captured value	Translation
Reduced risk	Avoid cost	Less bugs, more test coverage
Faster release rate	Increase revenue	Keep pushing new features
Better teamwork & better products	Increase revenue	There will be confidence because of the knowledge that errors will be caught automatically beforehand
Happier users	Increase revenue	Less bugy features and always more features releasing
Fault Detection & Isolation	Avoid cost	Prevent the time and the effort of blind debugging and hidden issues
Smaller Backlog	Increase revenue	Speed up finishing the tickets and the sprints work
Automate creation of the Infrastructure	Avoid cost	Less human work