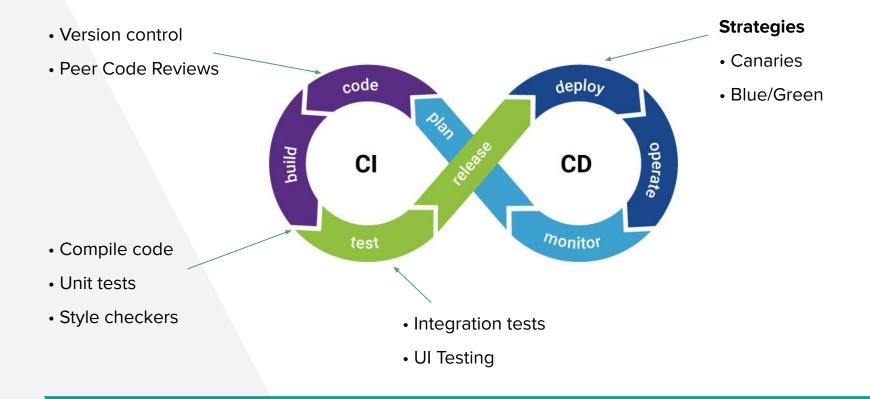
# Deploying Apps using CI/CD

#### What is CI/CD?

**CI/CD** is a method to **frequently** deliver apps to customers by introducing **automation** into the stages of app development.

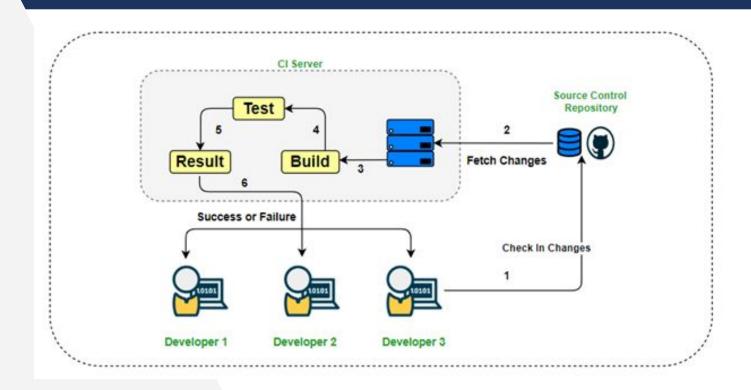
## What is CI/CD?



C

The "CI" in CI/CD always refers to **C**ontinuous **I**ntegration, which is an **automation** process for **developers**.

Successful CI means new code changes to an app are regularly built, tested, and merged to a shared repository.



CD

The "CD" in CI/CD refers to **C**ontinuous **D**elivery and/or **C**ontinuous **D**eployment.

These two terms are often considered as same or confused.

Both are about automating further stages of the pipeline, however the **difference** is actually **how much automation is happening**.

#### CD

Continuous Delivery means a developer's changes are automatically built, tested and uploaded to a repository, where they can then be deployed to production environment by the operations team (**Manual deployment**).

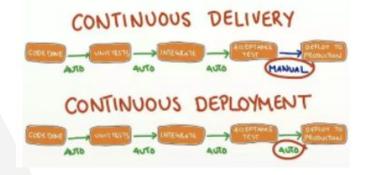
Continuous Deployment (the other possible "CD") can refer to automatically releasing a developer's changes from the repository to production (Automatic deployment).



## Release vs Deploy

**Release** is about publishing an artifact (jar, docker image, library) to a binary repository (maven, docker hub, npm).

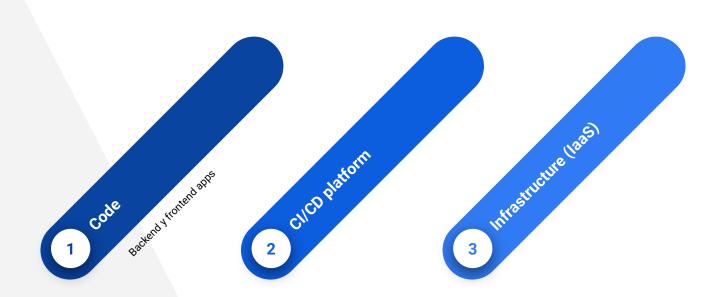
**Deploy** is about launching the binary on the **infrastructure**. *java -jar build/libs/ddd-ecommerce-0.1-all.jar* 



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# Let's do it

# Basic ingredients



### Common CI/CD tools













#### laaS





















#### Create free accounts

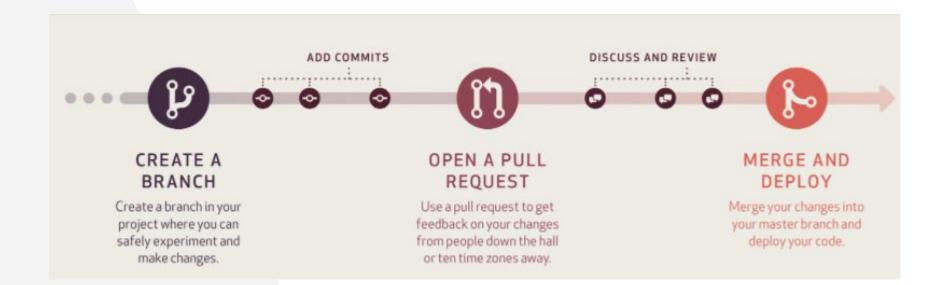
- https://github.com/
- https://www.heroku.com/
- https://www.netlify.com/

# Setup Backend & Front

- Create a new empty repo (Fullstack-backend)
- Clone the repo
- Push our backend code

- Create a new empty repo (Fullstack-frontend)
- Clone the repo
- Push our frontend code

#### Git Workflow





# THANKS!

**Any questions?**