

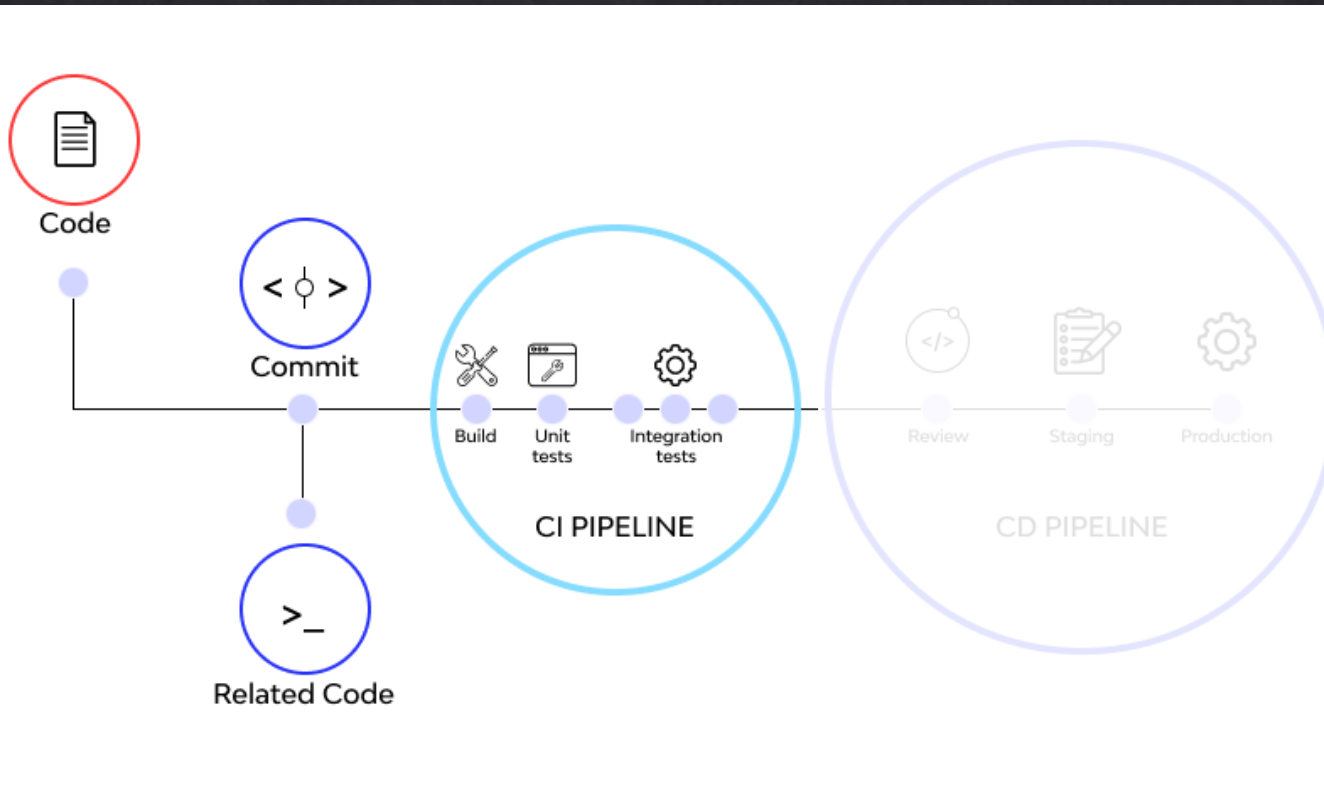
# CI/CD: Driving Business Value

How automation can benefit UdaPeople

# Context

- ◆ We are about to start development on the new UdaPeople App, an HR tool to help small businesses take care of their people
- ◆ Lessons have been learnt from previous development projects:
  - ◆ Wasted time on merge issues
  - ◆ Too much time investment into the release cycle instead of releasing value
  - ◆ Siloed knowledge separated development and ops departments
  - ◆ Deployments were not a cause for celebration
- ◆ We are proposing to implement Continuous Integration and Continuous Deployment processes to solve these challenges

# Continuous Integration: *Making*

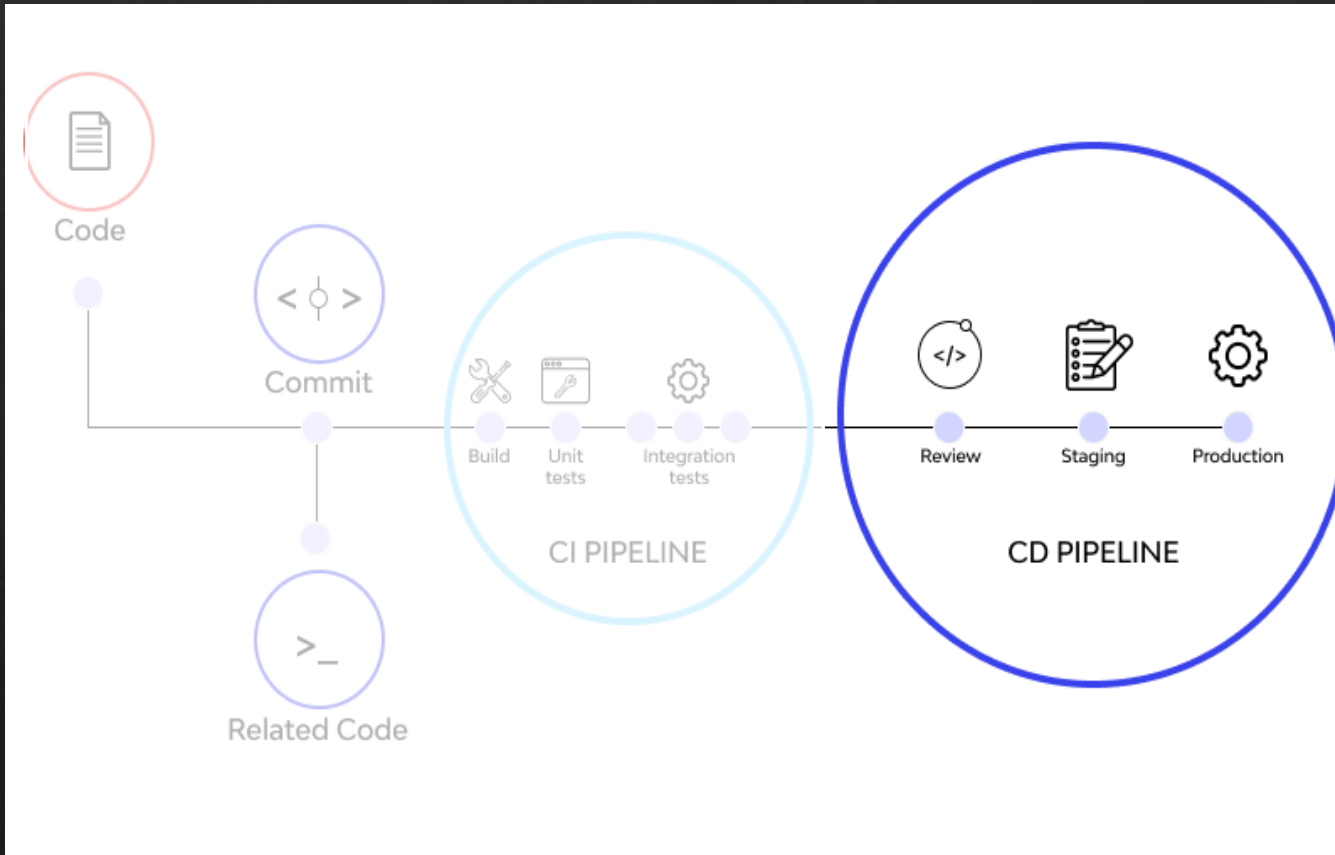


“Continuous integration (CI) is the practice of automating the integration of code changes from multiple contributors into a single software project” - Atlassian

CI includes all steps in the automated “making” of the product, i.e.:

- Merging and compiling code
- Unit and integration testing
- Dependency vulnerability testing
- Storing infrastructure

# Continuous Deployment: *Moving*



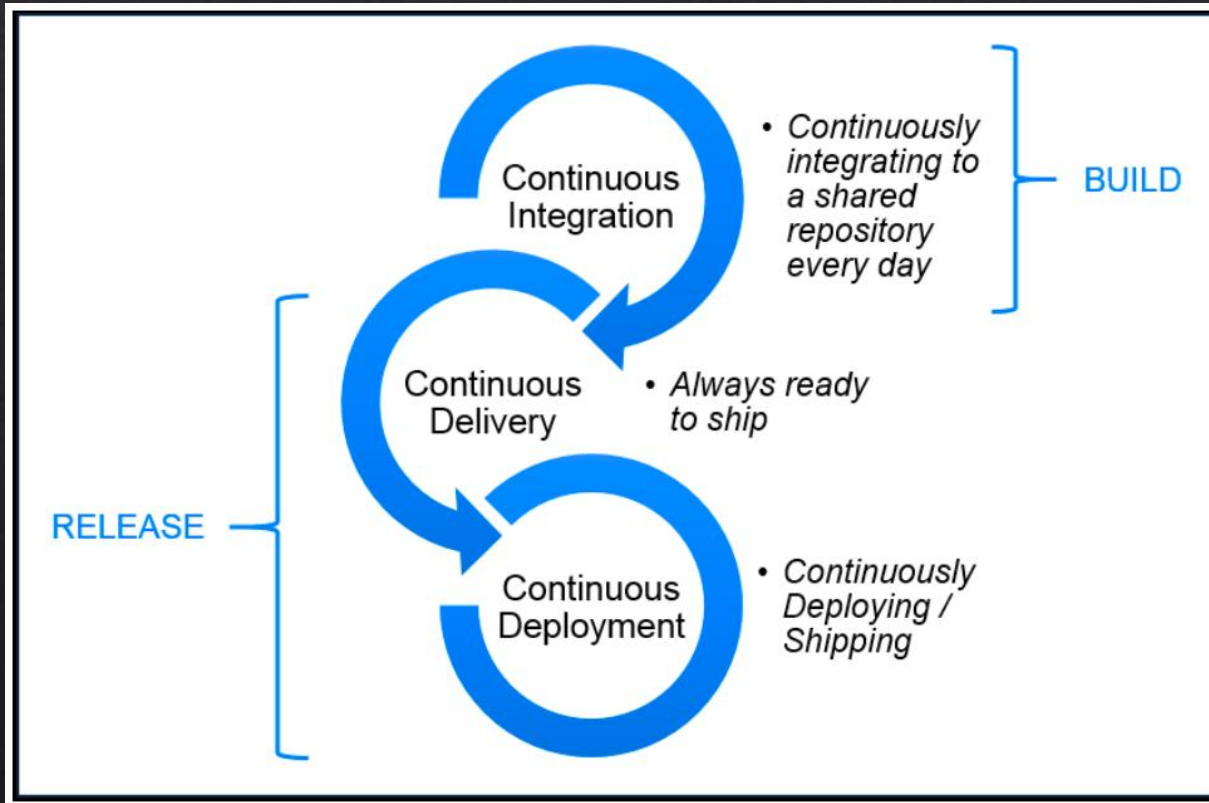
Delivering software frequently through automated deployments

CD includes all steps in the automatic “moving” of the product to production, i.e.:

- Creating infrastructure
- Provisioning servers
- Promoting to production
- Smoke testing
- Roll backs



# How Can We Benefit from CI/CD?



CI/CD is a framework for **business value**.

Business benefits:



These practices will allow developers and operatives to provide client satisfaction through increased team collaboration and code quality, consistently.