
Implementing CI/CD for the UdaPeople Product

Devops Team

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What is CICD?



- **Continuous Integration**

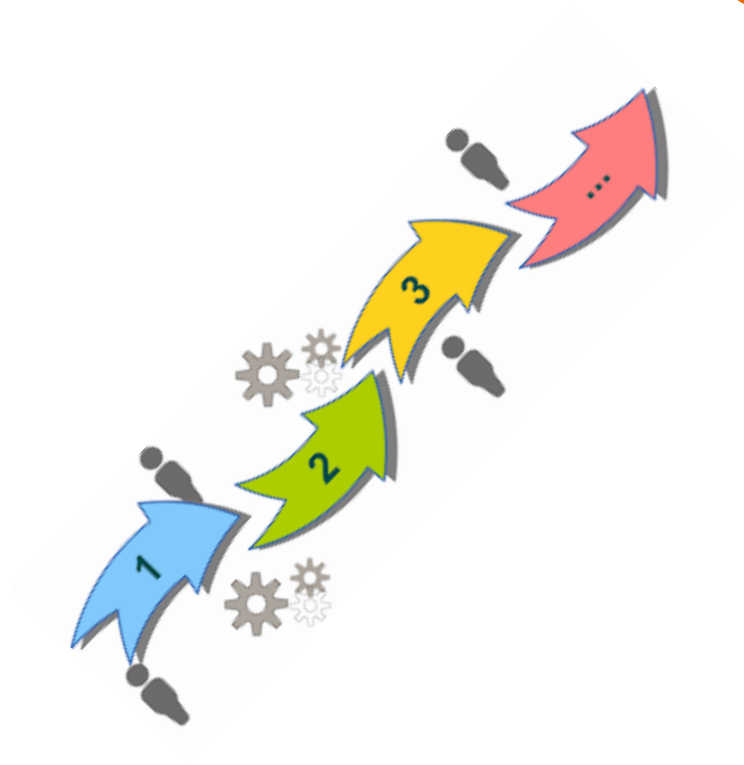
An Approach to continuously validate the state of a codebase through automated testing.

- **Continuous Deployment**

An Approach to regularly deploy artifacts that successfully pass the CI phase to ensure confidence around the deployment

The goal is to make our software development and release process faster and more robust.

CICD Process/Features



- **Decoupled Stages**
Each step is executes a single focused task
- **Repeatable**
Highly automated for consistent repetition
- **Fail fast**
Fail at the first sign of trouble
- **Pipelines**
Streams of automated deployment which increases confidence as we move to production
- **Infrastructure**
Create and configure application servers
- **Unit tests and shift tests**
Automated verification of the performance of the codebase

Business Benefits of CICD?



- ❖ There is reduced chance of human errors
 - ❖ Reduced chance of mis-communication on executing a change
 - ❖ Deployment of changes more frequently
 - ❖ Enables tech team to experience faster
 - ❖ Decreases the risk of repeated issue/error
 - ❖ Enhanced learning from failure to guide further deployments
 - ❖ Helps us get feedback faster
 - ❖ Increases our customers' trust and their callbacks.
 - ❖ Ultimately, this benefits reduces costs and increases our revenue
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THANK YOU