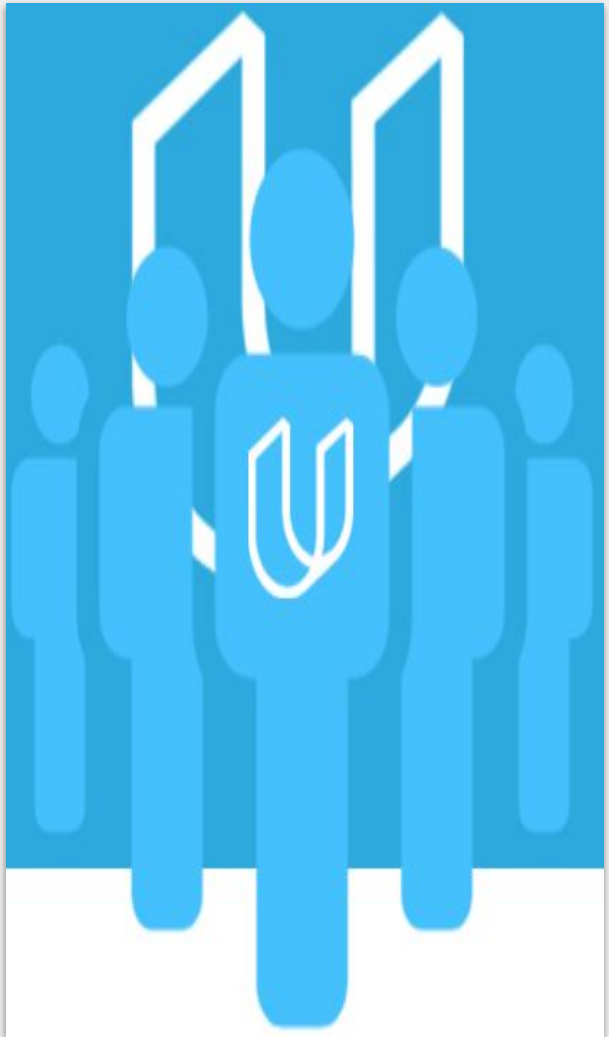
know your missions.
Get the stones of CICD, enables teams to deliver working software at pace, get working software into the hands of users more quickly.

UDAPEOPLE



Objectives:

Why CICD?

What is the benefit of CICD?

CICD Phases

Best Practices for CICD

Why CICD?

Continuous integration, delivery and deployment are DevOps practices. They are techniques that implement the DevOps ideals.

Three main stones:

- Quick Response to market
- Continues customer satisfaction
- Sharpener competitive edge

CICD Benefits on UdaPeople Business

- **Increase Revenue**
  - Fast Releases: Faster and More Frequent Production Deployments
  - Less time to market
- **Reduce cost**
  - CICD save time and teams' time.
  - Automated Infrastructure clean up means less infrastructure costs
  - Catch Compile Errors After Merge
- **Protect revenue**
  - Reduced downtime from a deploy-related crash or major bug
  - Quick undo to return production to working state
- **Avoid cost**
  - Less bugs in production and less time in testing
  - Prevent embarrassing or costly security holes
  - Less human error, Faster deployments

CICD Phases

- **Continuous Integration**
  - Code - commit - build - compile - code analysis - unit test + integration test - Store artifact.

- **Continuous delivery**
  - Creating infrastructure - provisioning servers - copying files - promoting to production Smoke testing(aka verify) - Rollbacks.

- **Continuous deployment**
  - approach in which the value is delivered frequently through automated deployments.

Best Practices for CICD

- **Fail Fast**
  Set up your CI/CD pipeline to find and reveal failures as fast as possible.
- **Monitor and measure** your pipeline
- Make it the only way to **deploy to production**
- **Maximum Automation**
- **Config in Code**
  This includes the CI/CD configuration files