

# UDAPEOPLE

Project

# What is CI/CD ?

- Continuous Integration  
is a development practice that requires developers to integrate code into a shared repository several times a day.
- Continuous Delivery  
Continuous Delivery is the ability to get changes of all types—including new features, configuration changes, bug fixes and experiments—into production, or into the hands of users, safely and quickly in a sustainable way.
- Continuous Deployment

# Automation with a human touch

- CD will help to produce one-click deployments that can be triggered on demand.

# Shared responsibility model

- CD produces happier teams because now the deployment pipeline isn't just an operations problem. Operations will seek ways to help developers build software with quality.

# CURRENT PAIN POINTS

- Manual Release delay
- Poor S/W quality
- Complex deployments

# DEVOPS benefits

- Implement Continuous Integration: automate compiling, testing, code analysis and artifact storage
- Automate Infrastructure Creation
- Cost reduction
- Reduce complexity
- Add automated infrastructure provisioning
- Automated Smoke Tests and Rollbacks
- Involve customers and business stakeholders already in deployment process

# Challenges

- Establishing CI/CD comes with a high amount of initial cost and learning.
- Delivering CI/CD pipelines is not a one time effort
- CI/CD will improve overall business processes