



CI/CD PIPELINE

Continuous Integration/
Continuous Deployment



Basics

- CI/CD is a best practices to deliver more code changes frequently and reliably on our application.
- CI/CD consists of three parts:
 - *CI – Continuous Integration*
 - *CD – Continuous Deployment*
 - *Product of CI+CD = Continuous Delivery*

Basics

- CI – Continuous Integration
 - *It's the process of merging code several times a day from all developers to a shared mainline*
 - *New feature/ code changes are compiled and tested frequently*
- CD – Continuous Deployment
 - *It's the process of automated deployments of servers and infrastructure*
 - *Testing and rollbacks*
- Product of CI+CD = Continuous Delivery
 - *Automated deployment from tested code to production*

Benefits of CI/CD

- Reducing cost
 - *through unused infrastructure resources, lower costs*
 - *reduced time for finding errors in the new program code*
- Avoiding Cost
 - *Faster deployments and reduced human errors*
 - *Prevent embarrassing or costly security holes*

Benefits of CI/CD

- Increasing Revenue
 - *Faster releasing of new features*
 - *Reduced time for publishing to the market*
- Protecting Revenue
 - *Reduced downtime from a crash*
 - *Faster rollback by failure to production*