CI/CD - BENEFITS

Continuous delivery is a mindset, not a set of tools

CONTINOUS INTEGRATION

- *The practice of merging all developers' working copies to a shared mainline several times a day. This ensures high quality, deployable artifact.*

- *When you think of CI, think of code*

Some common CI-related phases might include:

- Compile

- Unit Test

- Static Analysis

- Dependency vulnerability testing

- Store artifact

CONTINOUS DEPLOYMENT

- *The process of delivering high quality code to production with minimal or no human input*

Some common CD-related phases might include:

- Creating infrastructure

- Provisioning servers

- Copying files

- Promoting to production

- Smoke Testing (aka Verify)

- Rollbacks

BENEFITS OF CI/CD

- Less developer time on issues from new developer code – Reduce Cost

- Less bugs in production and less time in testing - Avoid cost

- Less human error, Faster deployments - Avoid cost

- Less infrastructure costs from unused resources - Reduce cost

- New value-generating features released more quickly - Increase revenue

- Less time to market - Increase revenue

BENEFITS OF CI/CD CONTD...

- Prevent embarrassing or costly security holes - Avoid cost

- Quick undo to return production to working state - Protect Revenue

- Reduced downtime from a deploy-related crash or major bug - Protect Revenue