CI/CD Benefits

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What is CI (Continuous Integration)

- It is the practise of merging all developers' working copies into a single destination.
- This operation is totally automated.
- This will help in conservation some time for developers and get off the headache of solve the problems that are produced from merging the code manually.
- As a result developers can dedicate all their time for development only.
- Some CI-related phases are:
    - Compile
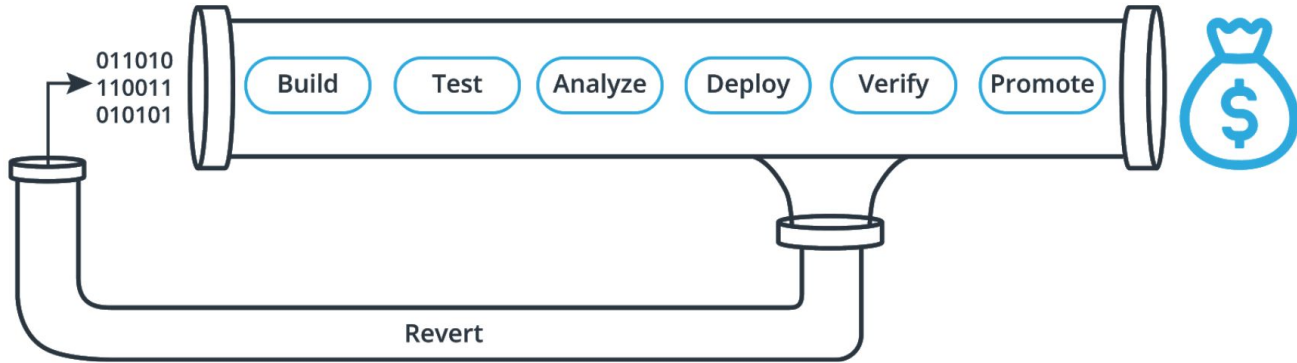   - Unit Test
    - Dependency vulnerability testing

What is CD (Continuous Deployment)

- It's a software engineering approach that helps to perform automated deployment of the artifact that was produced from the CI step.
- Some common CD phases might be:
  - Creating infrastructure
  - Provisioning servers
  - Copying files
  - Promoting to production
  - Rollbacks

Phases of CI/CD

The CI/CD Pipeline

CI/CD Benefits

1- Reduce Cost

- Less development time consumed by the issues from new developer code.

2- Avoid Cost

- Less bugs in production, less time in testing.

3- Increase Revenue

- Less time to market

4- Protect Revenue

- Quick undo to return production to working state

Thank you!