CICD
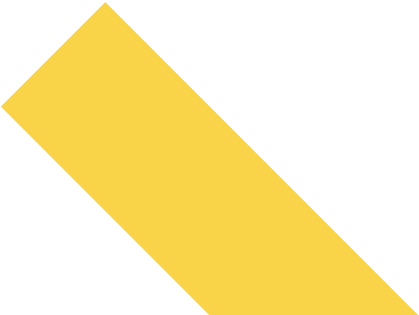
A better way to build and ship products to market

Continuous Integration

The process of "**Making**". Everything related to the code to guarantee **a high quality,**

CI Phases:

• Compile

• Unit Test

• Static Analysis

• Dependency vulnerability testing

• Store artifact
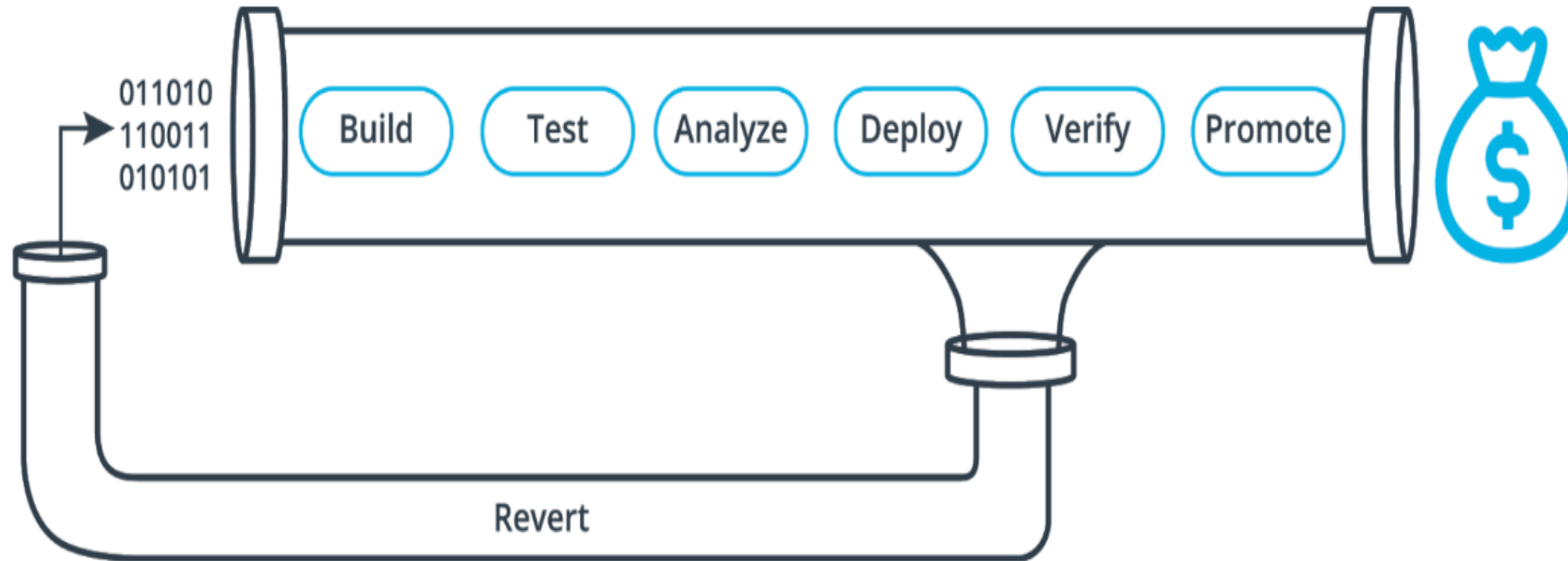
```
10100
00101
10100
```

Continuous Development

It's the process of "**Moving**" the artifact from the shelf to the spotlight

CD Phases:

•Creating infrastructure

•Provisioning servers

•Copying files

•Promoting to production

•Smoke Testing (aka Verify)

•Rollbacks

The CI/CD Pipeline

The Phases of CI/CD Pipeline

January 8, 2023

Benefits of CICD

Value	Benefits
Avoid Cost	Less bugs in production and less time in testing
Avoid Cost	Prevent embarrassing or costly security holes
Avoid Cost	Less human error, Faster deployments
Reduce Cost	Less infrastructure costs from unused resources
Increase Revenue	New value-generating features released more quickly
Increase Revenue	Less time to market
Protect Revenue	Reduced downtime from a deploy-related crash or major bug
Protect Revenue	Quick undo to return production to working state

Annual Review   January 8, 2023