

Effectiveness of CI/CD

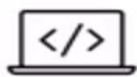
By Sriram Mukundan

Continuous
Integration and
Continuous
Deployment

Building a
Continuous
Integration
Pipeline

Enabling
Continuous Delivery
with Deployment
Pipelines

Monitoring
Environments



Coding



Code Review



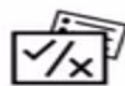
Merge/
Integrate



Compile/Lint



Run Unit
Tests



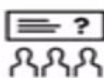
Run
Integration
Tests



Verify
Dependency
Security



Deploy to
Test
Environment



Team Test



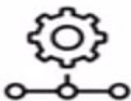
Deploy to
Client Test
Environment



Client Test



Create
Infrastructure



Configure
Infrastructure



Deploy to
Production



Smoke Test
in Production



Rollbacks

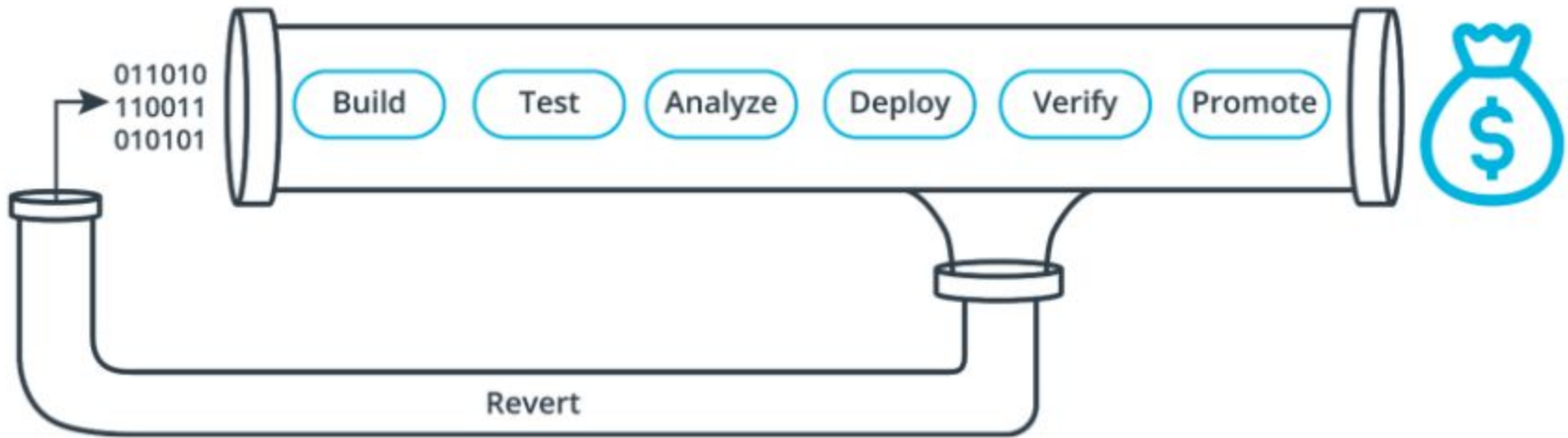


Promoting to
Production



Celebration

The CI/CD Pipeline



Continuous Integration + Continuous Deployment = Continuous Delivery

The Phases of CI/CD Pipeline

Benefits of CI/CD

- 1) Less development time
- 2) Low cost
- 3) Infrastructure resource dependency is avoided (Human dependency)
- 4) Faster developments, less bugs, any fix will go through full cycle of testing once again in quicktime
- 5) Less time to market
- 6) Rollback of the change if anything goes wrong is easy and automatic
- 7) Prevent embarrassing or costly security issues
- 8) New value generations within quicktime
- 9) Less issues in prod, less time for testing
- 10) Automatic deployment, infrastructure and deletion when not failed