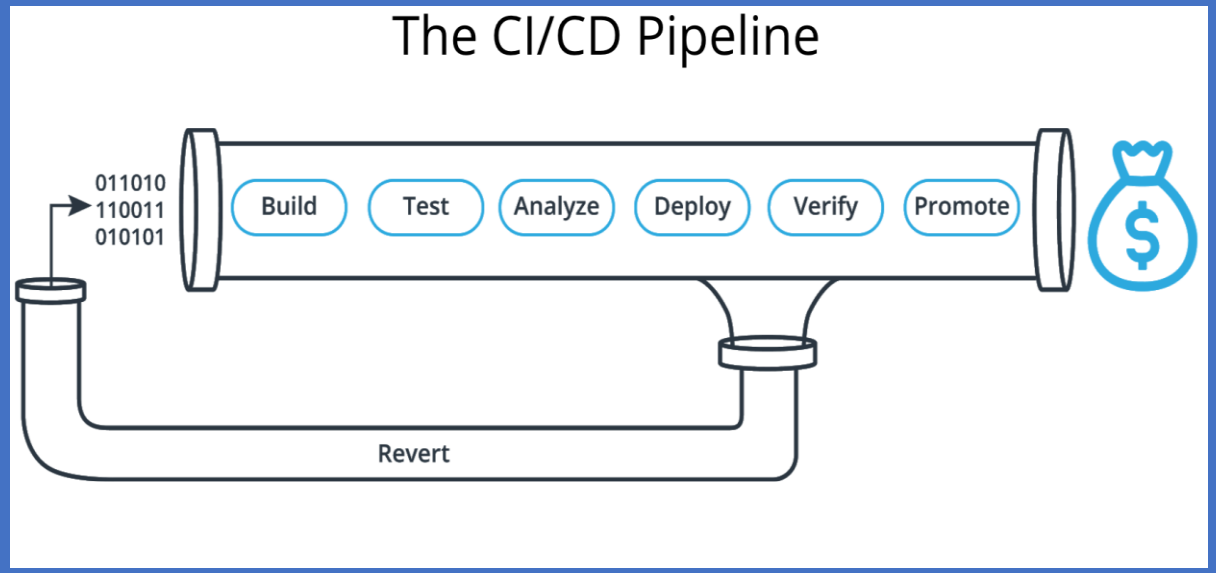
BENEFIT OF CI/CD

Oyetunji Amuzat

AGENDA

- Overview of CI/CD
- Benefit of CI/CD

Overview of CI/CD



Overview of CI/CD

- Continuous Integration: is a practice that encourages developers to integrate their code into a main branch of a shared repository early and often.

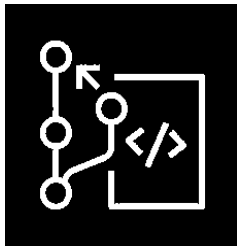
- Continuous Integration phases include:

Compile/Lint

Unit testing

Static Analysis

Vulnerability Testing



Store Artifact

Overview of CI/CD

- Continuous Integration: is a practice that encourages developers to integrate their code into a main branch of a shared repository early and often.

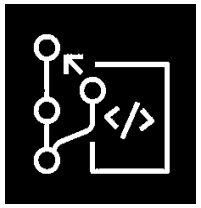
- Continuous Delivery phases include:

Compile/Lint

Unit testing

Static Analysis

Vulnerability Testing



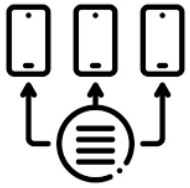
Store Artifact

Overview of CI/CD

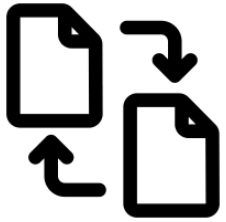
- Continuous Deployment: is a software engineering approach in which value is delivered frequently through automated deployment.

- Continuous Delivery phases include:

Creating Infrastructure

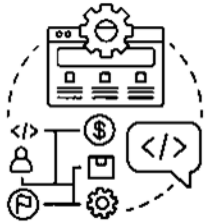


Provisioning Server

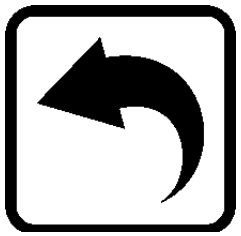


Copying File

Promote to Production



Smoke Test



Rollback

Benefit of CI/CD

Benefit of CI/CD

Technical Language	Value	Translation
Catch Compile Errors After Merge	Reduce Cost	Less developer time on issues from new developer code
Catch Unit Test Failures	Avoid Cost	Less bugs in production and less time in testing
Detect Security Vulnerabilities	Avoid Cost	Prevent embarrassing or costly security holes
Automate Infrastructure Creation	Avoid Cost	Less human error, Faster deployments
Automate Infrastructure Cleanup	Reduce Cost	Less infrastructure costs from unused resources
Faster and More Frequent Production Deployments	Increase Revenue	New value-generating features released more quickly

Benefit of CI/CD (Contd.)

Technical Language	Value	Translation
Deploy to Production Without Manual Checks	Increase Revenue	Less time to market
Automated Smoke Tests	Protect Revenue	Reduced downtime from a deploy-related crash or major bug
Automated Rollback Triggered by Job Failure	Protect Revenue	Quick undo to return production to working state

THANKS