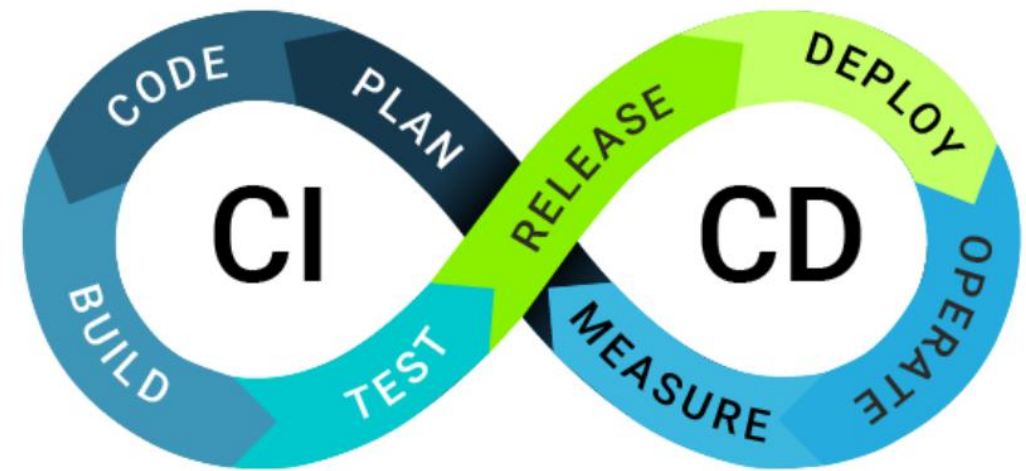# CI/CD
Use automation to unleash value

By Awa DIAGNE

WHAT IS CI?

Continuous Integration

The practice of merging all developers' working copies to a shared mainline several times a day. It's all about building a deployable artifact. CI covers these phases:

- Compile
- Unit Test
- Static Analysis
- Dependency vulnerability testing
- Store artifact

WHAT IS CD?

Continuous Deployment

A software engineering approach in which the value is delivered frequently through automated deployments. It's deploying the artifact automatically until production. CD covers:

- Creating infrastructure
- Provisioning servers
- Copying files
- Promoting to production
- Smoke Testing (aka Verify)
- Rollbacks

BENEFITS OF CI/CD?

Reduced Cost
New code is tested and merged quickly

Unused resources are automatically removed

Avoided Cost
Less bugs in production and less time in testing
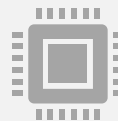
Maintained security

Less errors with faster and automated deployment

Increased Revenue
Features are delivered more quickly

Less time to market

Protected Revenue
Less downtime when fixing a bug

Automated rollback on crash

THANK YOU!