CI/CD
A way to do more!
With less!

Omobolaji Adams – Devops Engineer

CONTINOUS INTEGRATION

This is DevOps practice of adding various working copies of diiferent developers to a major line
As many times in a day

It generaly has to do with our code and how we update working versions, making it available for developer resulting in high quality code and deployable artifacts

Different stages in the CI stage
1. Compile
2. Unit Test
3. Static Analysis
4. Dependency vulnerability testing
5. Store artifact

CONTINOUS DEPLOYMENT

This is an approach in which value is produced regularly by automating the deploy procedures

It generaly has to do with the environment in which working versions will exist , it is the way we move artifacts from our hands to the world

Different stages in the CD stage
1. Creating infrastructure
2. Provisioning servers
3. Copying files
4. Promoting to production
5. Smoke Testing (aka Verify)
6. Rollbacks

WHAT DO WE GAIN

Deploy to Production Without Manual Checks

This means we get less time to market hence increasing Revenue

Faster and More Frequent Production Deployments

This result in an increase in revenue because new value is generated more frequently

Automate Infrastructure Cleanup

This help removes unused infrastructure resulting in lesser cost

Detect Security Vulnerabilities

This keeps a step ahead of security holes hence avoiding cost

WHAT MORE

Automated Rollback Triggered by Job Failure

This automation enables us to quickly undo, returning production to working state hence protecting revenue

Catch Compile Errors After Merge

Cost is reduce when developer spend more time on building code and lesser time on bugs (issues)