CI/CD

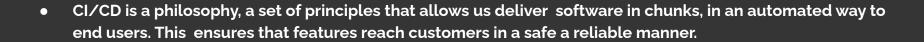
And the benefits it offers Udapeople

A presentation by R. Ojigbo

The Big Picture

- At Udapeople we are constantly trying to deliver new features to our customers.
- Delivering features as often as we do comes at a price. We could break existing stuff or push poorly tested or buggy features

What is CI/CD?



 Continuous Integration encourages developers to implement and check-in small code changes. Which is built and tested before merging.

 Continuous Delivery deploys the integrated code in the CI step to relevant environments (Test and Production for example)

• Continuous Deployment involves releasing everychange that has passed through the production pipeline to the customers



Benefits of CI/CD

- → End to End Automation
- → Monitor (Alerts and Sirens)
- → Improved Code Quality
- → Better Testing
- **→** Easy Maintenance and Update
- → Accelerated Release Cycles
- **→** Quick Detection of bugs



Business Implications.

- → Cost: Automation frees up time for developers to focus on other product work. Thereby reducing cost and maximizing companies revenue.
- Customer Satisfaction: Because faults are easier to spot and are isolated, we have less downtimes. Our customers are happy, this improves our ratings.
- → Easy Updates and Maintenance: it's easier and faster to rollout updates. This helps us experiment and explore new areas of business.

An overview of the CI/CD process



Continuous Integration

Build

Merge

Continuous Delivery

Deploy (to relevant environments production or test servers)

Continuous Deployment

Deliver to end users