
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 ?



- CI/CD is a philosophy, a set of principles that allows us deliver software in chunks, in an automated way to end users. This ensures that features reach customers in a safe and reliable manner.
- 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 every change 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

Test

Merge

Continuous Delivery

Deploy (to relevant environments
production or test servers)

Continuous Deployment

Deliver to end users