

CI/CD

Outline

- Background
- Continuous Integration
- Continuous Delivery
- Continuous Deployment
- Why CI/CD

Background

- Developing software and pushing it to production has not been a simple thing. There have been several challenges with the operations team to get an app into production. Most of the problems are a result of incompatible development and production environments.
- CI/CD has been a paradigm that streamlines the deployment of software

Continuous integration

- Continuous integration (CI) is the practice of automating the integration of code changes from multiple developers into a single software project.

Continuous Delivery

- Is an extension of continuous integration. It focuses on automating the software delivery process so that teams can easily and confidently deploy their code to production at any time

Continuous Deployment

- Is an extension of continuous delivery that automatically deploys each build that passes the full test cycle

Why CI/CD

- Financial gains
 - Automates some processes such as catching errors and reporting to the developers, Auto deployment of the app, code analysis, code integration, etc. This helps developers/systems admin to use their time for something else.
 - Minimises configuration errors that could cause a high financial cost
- Client Satisfaction
 - Rapid deployment of features is something that would make customers happy
 - Having fewer or no system errors in production would build the confidence of the clients in our products