

CONTINUOUS DELIVERY (CI/CD)

A paradigm in software development, solving the problems of converting features to value at a fast pace.

CONTINUOUS INTEGRATION (CI)

- This is the process of integrating each copy of code from a developer of a project and making sure there is no conflict in the code as it is being pushed/shipped.
- This process carries steps and the steps/jobs involved are Building, Compiling, running static analysis, checking for vulnerabilities, testing, and storing the code as artifacts

CONTINUOUS DEPLOYMENT (CD)

- This is the process by which changes in the codebase of our software are deployed to production as soon as they are verified as ready and with minimal human input
- The steps/jobs in this stage includes: setting up infrastructure, smoke testing, provisioning servers, copy files, promoting to production, and rolling back the change incase of any anomaly during the deployment.

WHY WE SHOULD INCORPORATE CONTINUOUS DELIVERY

- I believe we should imbibe the practice of continuous delivery in our development process. The below point are some of the benefits it would bring to us
- **Catch Security Vulnerabilities:** This would prevent embarrassing or costly security problems for us, it would also save us cost
- **Automated Deployment:** This would give us more time to market our new feature, which would possibly increase revenue
- **Automate Infrastructure Cleanup:** This would help us reduce cost by removing our unused resources
- **Automated Smoke Test:** This would help us protect our revenue by reducing the effect of downtime to our organization.

WHY WE SHOULD INCORPORATE CONTINUOUS DELIVERY CONTD

- **Automated Rollback:** This would protect our revenue by returning to our working state whenever there is a glitch during production process.
- **Faster Feature Deployment:** This would increase revenue for us by allowing us deploy newer features in a faster pace
- **Automate Infrastructure Creation:** Reducing the cost of human error in infrastructure creation
- **Catch Compile Error:** Reduced cost from issues about compiling developer codes

~ Looking at all this benefits,
I would suggest we put these into practice
As the benefits are enormous