

THE BENEFITS OF CI/CD IN UDAPEOPLE PROJECT

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WHAT IS CI/CD?

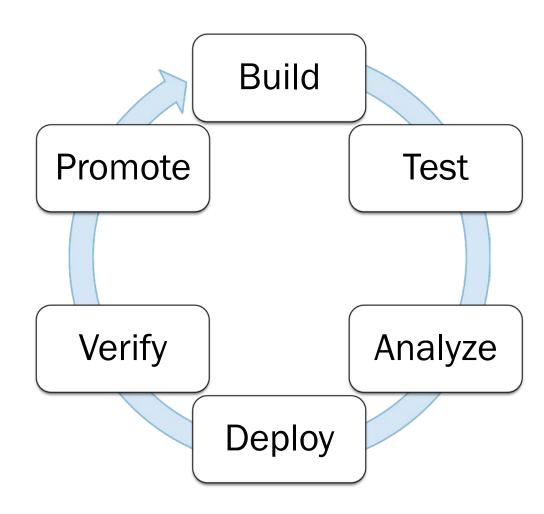
CONTINUOUS INTEGRATION (CI)

- The practice of merging all developers' working copies to a shared mainline several times a day.
- This process is automated because of the size of the requirements and the number of steps needed, Cl allows teams to design, test, and bundle their applications in a consistent and repeatable manner.
- CI makes it easier to streamline code updates, giving developers more time to make changes and advance the project.

CONTINUOUS DEPLOYMENT (CD)

- An engineering practice in which products are delivered frequently through automated deployments.
- There are numerous production deployments because every change that passes the automated tests is automatically put into production.

THE CI/CD PIPELINE



WHY SHOULD WE USE CI/CD?

DevOps team can find failures as quickly as possible.

We can reduce the cost of developers as they will spend less time on bugs.

CI/CD aids in the early detection of security vulnerabilities in our product code, hence, preventing the possibility of costly security loopholes

All our processes can be automated. This means faster deployments and less human error.

This be a massive help to our budget as we can save on unused infrastructure costs. New features can be added faster and more frequently due to the CI/CD pipeline.

We can satisfy customers and increase our organization's competitive advantage.

We can quickly undo failures to return production to working state and protect our revenue.

Fail Fast

Detect Security Vulnerabilities

Infrastructure Automation

Faster deployments

Automated Rollback Triggered by Job Failure In conclusion, CI is a set of practices performed while developers are writing code, whereas CD is a set of practices performed after the code has been completed.

Thank You