

# Fundamentals and Benefits of CI/CD



# What is CI/CD?

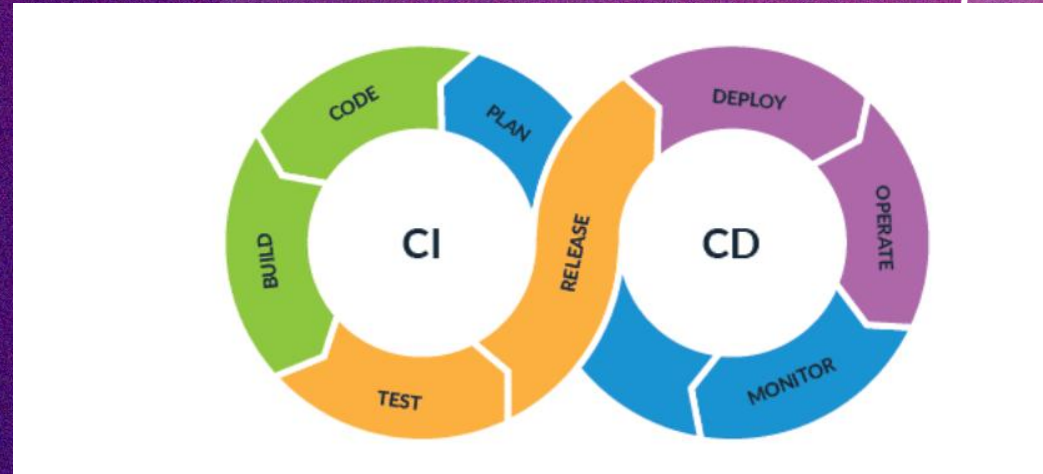
Continuous Integration (CI) - This is the process of merging developers code frequently to ensure uniformity and consistency.

Continuous Delivery - This is the practice of software team releasing deliverables in short circles.

Continuous Deployment - The practice of automatically building, testing and deploying code to non-production environment



# Why CI?



CI enables organizations to scale in engineering team size, codebase size, and infrastructure. By minimizing code integration bureaucracy and communication overhead,

CI helps build DevOps and agile workflows.

It allows each team member to own a new code change through to release.



# Benefits of CI/CD for Udapeople

Faster time to market. The primary goal of a CI/CD pipeline is to deliver working software to users quickly and frequently.

Better code quality - Testing your code's behavior is an essential step in the software release process but doing it thoroughly can also be extremely time consuming. A central part of any CI/CD pipeline is a series of automated tests that are run on each and every build. .

Release circles is accelerated by 15% thereby bringing product to the market faster.

Project cost is reduced and profit is improved



# Thank you

I look forward to your kind response.

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