Udapeople CI/CD Product Business Presentation

What is Continuous Integration (CI)?

Continuous Integration (CI) is the practice of automating the integration of code changes from multiple contributors into a single software project. It's a primary DevOps practice, allowing developers to frequently merge code changes into a central repository where builds and tests run

What is Continuous Development (CD)?

Continuous Development is a software engineering approach in which the value is delivered frequently through automated deployments. Everything related to deploying the product fits here. It's the process of 'moving' the product from the shelf to the spotlight.

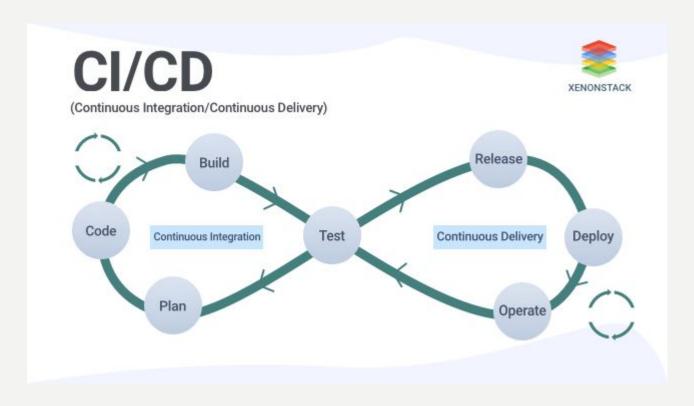


Diagram depicting Continuous Integration and Continuous Development

Benefits of CI/CD

1. Reduced Risk

Finding and fixing bugs late in development is expensive and time consuming. This is true when there are issues with features that have already been released to production. But with CI/CD, we will be able to reduce this drastically.

2. Fast Delivery

Releasing features multiple times a day is not an easy task, but with a seamless CI/CD pipeline, multiple daily releases can be made a reality

3. Improved Customer satisfaction

The product is always in the delivery phase by faster deploying production of new features

4. Reduced Downtime

By having automated smoke tests that will alert us and trigger the rollback if any failure happens.

5. Generation of extensive logs

Observability is a big aspect of CI/CD integration and if something is wrong, it will be easier to identify it. Generated logs in the system will help in getting immediate feedback about the system and make it easier, cheaper and faster to fix the problem