

Benefits of CI/CD

Achieve, Build, and Deploy Automation for Cloud-Based Software Products

Continuous Integration

- The concept of using automation tools to build, test and merge code seamlessly. This is to ensure that code coming from different developers and components is free of errors. Also using automated tests to help spot bugs at the early stage of software development and fix them immediately

Continuous Deployment

- Means constant and automated production deployment of every change made to the code, ideally without any human intervention.

CI/CD

Benefits

- **Improved code quality:** Since code is released in small batches, it is possible to test it thoroughly (e.g., using unit tests) detecting and fixing the most serious bugs before software is deployed to production.
- **Shorter time-to-market:** This improves flexibility and the ability to deploy the application faster, and ship new functionalities.
- **Automation to reduce costs and labor:** Build automation, automated testing and deployment not only make the life of the DevOps team easier, but also slash costs.

CI/CD

Benefits

Contd.

- **Streamlined communication:** A CI/CD pipeline is a common framework for all developers, testers and product managers working on software development.
- **Easier performance monitoring:** They allow you to monitor health, performance and reliability and to take the necessary actions when needed.
- **Improved customer satisfaction:** The ultimate goal of every CI/CD implementation is to make customers/clients happy. Fast and frequent releases, new features shipped regularly, bugs fixed promptly and immediate reaction to feedback—these are the major factors that will make end-users happy to pay for your software.