



Fundamentals and Benefits of CI/CD to Achieve, Build, and Deploy Automation for Cloud-Based Software Products



What is CI/CD ?

CI refers to continuous integration

CI is a modern software development method that involves making frequent and reliable incremental code changes.

The process of early and frequent merging of all your code changes into the main branch of a shared source code repository is known as continuous integration.

CD refers to continuous deployment

Continuous delivery is what CI is for building and testing, but for packaging and deployment. CD teams can create, configure, and package software.

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Continuous Deployment

When teams rely on a fully automated pipeline, this is known as continuous deployment. This method completely automates the procedure and eliminates any human processes. As a result, continuous deployment ensures that code is put into production on a regular basis.



Benefits of CI/CD

Continuous delivery is enabled by automated testing, which ensures software quality and security while also increasing the profitability of code in production.

CI/CD pipelines provide a significant boost in overall delivery speed, which improves an organization's competitive advantage.



Benefits of CI/CD

Customers will be happier and development will be less stressed, as a result of CI/CD pipelines allowing for a considerably faster time to market for new product features.

Team members are freed to focus on what they do best, resulting in the best final results.