



CI/CD AND ITS IMPORTANCE IN BUSINESS: A PRESENTATION

What is CI/CD? -

What are its benefits? -

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What is CI/CD?

- One of the best practices for devops and agile development is continuous integration and delivery.

Continuous Integration

- Teams of developers are motivated to implement changes to their codebase and check them seamlessly into a version control repository as often as feasible by a coding philosophy and a particular set of techniques.

Continuous Delivery



What advantages do CI/CD offer?

- The reasoning behind this technique is that smaller code differentials, generated over a shorter period of time, make it easier for developers on any team to find errors and other software quality issues than larger ones, developed over a longer period of time. Multiple developers changing, merging, or committing the same code is less likely when developers work on shorter commit cycles.
- In order to increase release rates, lower risks, and lower costs throughout the development process, CI/CD strives to make it possible for software development teams to distribute software changes continuously.
- The business benefits of CI/CD go far beyond cost reduction, despite this being the fundamental objective. Some advantages of this fantastic technological method will be discussed;



Extra Advantages of CI/CD

- It allows companies to release products more quickly: Companies who have taken the initiative to implement CI/CD are able to provide new features and products more quickly, which makes it simpler for them to increase revenue more quickly. As opposed to waiting for the app to be thoroughly tested before launch, this is much better.
- It enables businesses to adapt to customer needs: Customers' needs frequently change over time. The responsibility of updating in response to fresh market demands and developing trends falls to software development teams in this situation. Early feedback and usability problems can be resolved with CI/CD without expending a lot of time and resources.



Lastly

- Teams can make and test changes because CI/CD standardizes deployment processes across all projects. If done correctly, this process significantly reduces the likelihood of bugs or errors causing problems in the future. This means that development costs will be lower because costs incurred while building and testing code changes will be eliminated.
- Companies spend less money on tasks that add no financial value to them or benefits to their customers when teams spend less time testing and fixing bugs.
- Furthermore, because CI/CD makes it easier to deliver high-quality products to the market and responds to feedback almost immediately, which leads to an increase in profits.