Why We Need CI/CD

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

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What is CI/CD all About?

Consider the whole concept of continuous integration, continuous delivery, and continuous deployment as an **automated mechanism** we could introduce in our team to **speed up** the process of shipping **better quality** software to our customers and also **more frequently**.
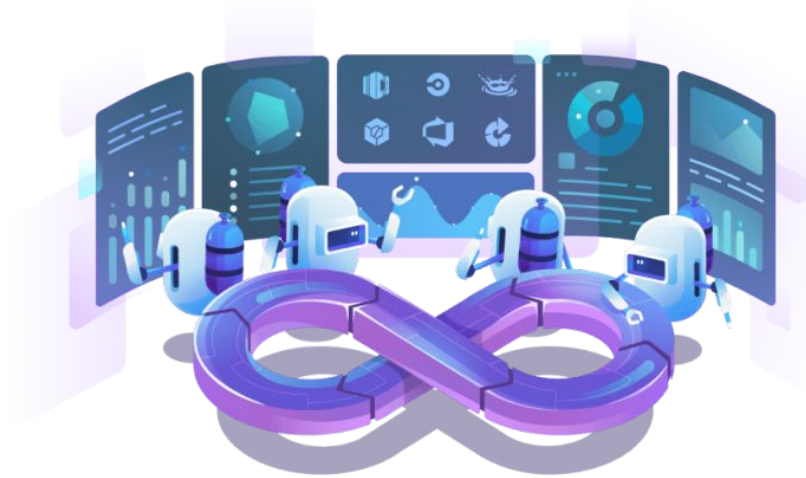

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Defining The Terms

CI(Continuous Integration) – This is mainly focused on development. At this stage, code is written and initial testing to avoid merging broken code with existing working code, before merging it.

CD(Continuous Delivery) – In continuous delivery, integrated code is automatically taken through the process of setup and everything required to take it to production.

CD(Continuous Deployment) – Continuous deployment builds on the first two. At this point, our software is only a step away from going live to our users or going back to the team for some changes or fixes.

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What we Benefit From Adopting CI/CD

- More errors are **caught and fixed before shipping to users**. This way, we preserve our integrity and reliability with the customers.
- **Faster development process**, as we automate majority of the boring and repetitive stuff, thereby saving a huge amount of development time.
- **Faster and more frequent shipping of updates and features** to our customers. This way, we get to generate even more **revenue**, and **more users** while keeping the existing users **happy**.
- **CI/CD** also gives room for **easy rollback** to the last working release, in case a deployment fails. This helps us to protect our revenue and reliability as well, as the customers wouldn't have to wait a long time before having errors fixed.

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Thank You

Now we know why CI/CD would be a huge improvement in our workflows across the organization.