

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**.

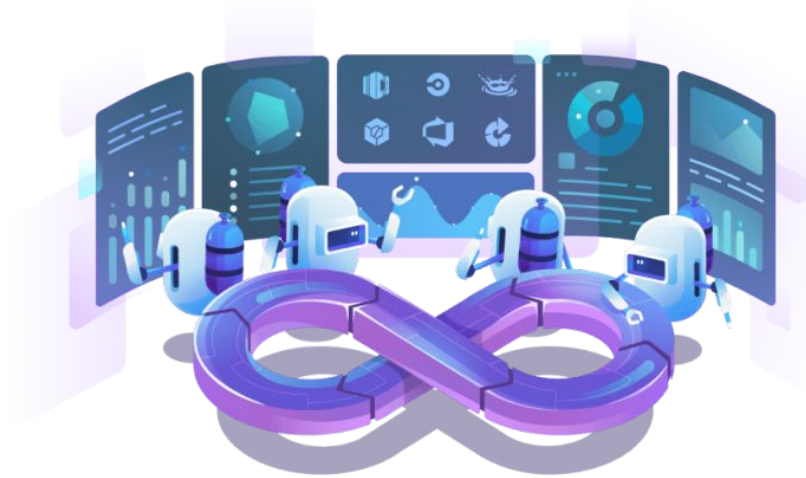


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Defining The Terms

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

- **Risk Reduction**: With CI/CD, more errors are **caught and fixed before shipping to users**. This way, we save **cost and time** by catching issues as they occur, as we understand how **expensive** it can be to catch and fix bugs in production.
- **Faster Delivery**: as we automate majority of the boring and repetitive stuff, we get to deliver products and updates to our users faster. This offers us the value of **Increased revenue and saved time**.
- **Faster and more frequent delivery of value**: We get to **generate more revenue**, as our customers are happier when they get requested features delivered to them quickly.
- **Quick rollback to working release**: CI/CD allows us to **easily rollback** to the last working release if a deployment fails. This helps us to **protect our revenue** and **reliability**.



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Thank You

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

