



CI/CD - Deliver Apps to Customers by introducing Automation into the stages of App Development

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



Continuous Integration

- Continuous Integration (known as CI) is the process of integrating the code changes multiple contributors from various branches into a single software.
- This practice is required to avoid the conflicts in the code. It validates the state of the codebase through automated testing.
- This is best achieved using version control system. Example of version control systems are Git, SVN.



Continuous Deployment

- Continuous Deployment is a strategy where any code which is committed passes through a series of jobs which includes automated testing phase and then release into the production.
- One of the main benefits of continuous deployment is that there is no time lag between when code change moves from lower / staging environments to production.



Why Business requires CI/CD

- 01 CI/CD ensures superior code quality - As CI/CD pipelines offer test automation, developers can know about the issues with their code at an early stage. Since the issues will be identified at an early age, it would help save time as well as money.
- 02 Automation helps in reducing the cost - As development takes place without the human intervention through the automated pipelines. As releases won't be delayed it won't impact the business from cost perspective.
- 03 Easy to Rollback - If in any case, issues arise in the production environment at the time of release, we can simply roll it back. Ease of rollback saves time, cost and results in great consumer experience.

Thank you!

