

CI/CD

Save money & time with automation super powers!

What is CI/CD ?

- CI/CD stand for continuous integration and continuous delivery.
- Allows organizations to ship software quickly and efficiently.
- CI/CD is a great process for getting products to market faster than ever before, and ensuring to add new features and bug fixes via the most efficient delivery method.

Continuous Integration (CI)

- Continuous integration means that developers frequently add and merge their code changes to a shared place like repository. It's an automated process that allows multiple developers to contribute software components to the same project without conflicts. CI make it easy to automated testing whenever a software change is added into the repository.

What is CD?

- CD can refer to either continuous delivery or continuous deployment. Both involve taking the code continuously integrated and getting it able to deploy to an environment either QA or production. Continuous deployment takes the process one step further and performs the actual deployment to an environment.

CI/CD Benefits

- Make Revenue
 - Faster and More Frequent Production Deployments ensures more quicker releases. Removal of manual checks before deployment means less time to market.
- Protect Revenue
 - Automated smoke test reduces downtime due to deploy related crash or a major bug. Automated rollback due to a job failure means a fast undo from production to working state.

CI/CD Benefits (Cont.)

- Avoid Cost
 - Automation of infrastructure creation that means faster deployment and less human error. Catch unit test failure ensures less bugs in production environment and less time testing. Detecting security vulnerabilities avoids future embarrassment from security attacks.
- Reduce Cost
 - Automation of infrastructure cleanup prevents cost on unused resources. Catching compile errors after merging reduces time spent on issues from new developer code.