

CICD

Introduction

CI/CD stands for continuous integration, continuous deployment and continuous delivery

Continuous integration is the act of merging developers working copies to a shared mainline several times a day.

Continuous deployment is a software engineering approach in which the value is delivered frequently through automated deployments. Automated build-and-test steps triggered by CI ensure that code changes being merged into the repository are reliable

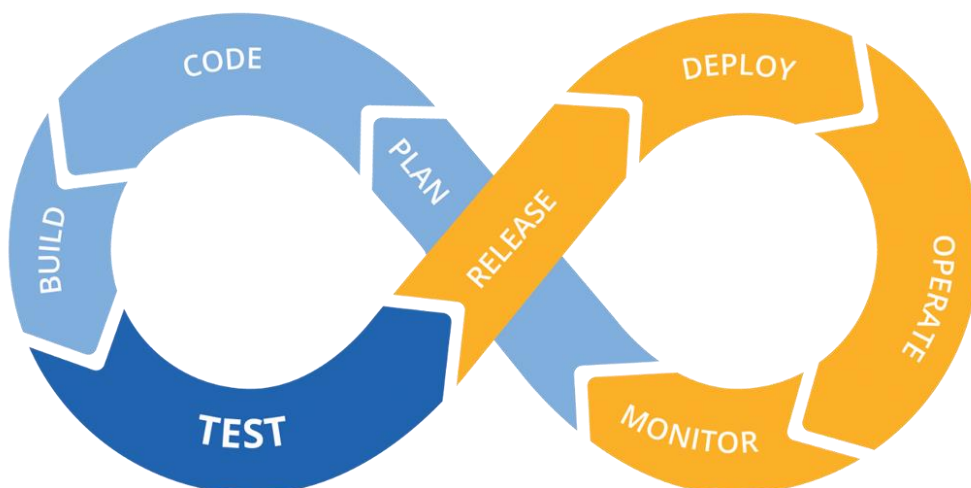
Continuous delivery is a producing and releasing value in short cycles.

The CI/CD pipeline refers to the automation that enables incremental code changes from developers' desktops to be delivered quickly and reliably to production.

CI/CD initiate an effective process for pushing products to market faster than ever before without any delay. Continuously delivering code into production, and ensuring an ongoing flow of new features and bug fixes via the most efficient delivery method.

Continuous Integration makes use of job in the CI/CD. This are the various job used

- Create Infrastructure
- Configure Infrastructure
- Deploy Production Artifacts
- Smoke Testing
- Rollback
- Promoting to Production



Importance of CI/CD

CI/CD will result in faster builds and deliver quicker results. With deployments running in continuous cycles, this will enable you to track the project and provide feedback in real-time, as well as fix shortcomings with your team whenever necessary. With consistent reviews, the product will see more refinement, and be more in tandem with the end-users expectations.

CI/CD facilitate deploying your app to the market in time, this would not only engage your customers better, but would also assure profits, support pricing, and advance market goals as well. Therefore, focusing on time-to-market would not only make you well equipped to adapt to the changes in the market but would scale up your mobile app too

It helps developers to work efficiently and reduce the cost of software projects which helps the organization to spend less in delivery protects.

Conclusion

CI/CD helps different engineers to collaborate and merge their code to a share line. It takes out the gruesome part of integration and delivery and helps to manage compute resources