

CI/CD

Continues Integration Continues Deployment

What is CI/CD

- * CI/CD is the combination of well defined principles and practices that allows software deliveries to happen in quick, repeatable & safe manner.
- * **Continues Integration:** The practice of merging all developers code into one single mainline several times a day. CI gives early feedback to devs for any possible issues with code.
- * **Continues Deployment:** A software engineering approach in which the value is delivered frequently through automated deployments.

CI/CD Benefits

- * Automated Infrastructure Creation and clean up: Eliminating human errors and avoid unnecessary cost of unused infrastructure.
- * Early feedback to developer: As soon as developer commit, any code issue will be found and fixed early.
- * Faster to production: Automation helps in deploying feature quickly and helps business to stay ahead of their competitors and eventually increases revenue.

CI/CD Benefits

- * Production stability: Automated unit test, smoke, integration tests make sure stable code is being released to production.
- * Down time reduces. The automated rollbacks, alerting and monitoring reduces the downtime of app.