

Benefits of CI/CD



Application Quality Improvement

- CI/CD enables to maintain Code Quality by Integration with tools like SONAR
- Allows frequent deployments enabling continuous integrations thereby catching the integrations defects at the earliest stage
- Saves developers time in issues caused due to code merges
- Ensures code is bug free by automating regression test cases
- Static Code analysis is performed and security/vulnerabilities are addressed

Reduce Costs and Boost Profits

- Faster Release rates - Delivers high-quality products to market faster and feedbacks can be addressed quickly thereby boosting profits
- No manual intervention is required. Everything can be automated. Once Automated, It be reused and reexecuted N number of times.
- Saving time and resources

Automations

- Infrastructure stack can be easily automated
- No Manual interventions required
- Quicker & Faster deployments without any human errors
- Infrastructure scripts can be reused and modified according to needs

Deployments

- Zero or shorter outage time.
- Blue green deployments enable zero downtime.
- Easier rollbacks without any production outages.
- High Availability to customers.
- Reduced risk in deployment to production
- Frequent releases can be done in incremental manner

Monitoring

- Integration with multiple Monitoring systems like Prometheus, Graphite
- Proactive approach - Trends can be analysed to proactively find out the patterns of failures and identify the upcoming issues/risks
- Business/Technology can calculate the new infra needs based on the usages and monitoring reports
- Data can be used to train Machine Learning system to analyse the alerts and train the system automatically.