CI/CD Benefits Proposal

Overview

- ► What is CI/CD?
- ► Current scenario
- ► CI/CD the saviour
- Hurdles

What is CI/CD?

Continuous Integration

Means merging of code changes from feature branch to master branch so many times a day in dev busy world. Once code is committed its Build using corresponding build tools, running the testcases for the respective changes and delivering the code artifact in a ease manner to the environment.

Continuous Delivery

Product will be ready to be available to market for the customer needs.

Continuous Deployment

► Frequent automated deployment to respective env. From above Continuous Delivery. Easier way to automate provision Infrastructure, post deployment checks, Rollbacks.

Current scenario

- Manual release process is error-prone cause delay in delivery to market.
- Deployments are complicated only experts at system can understand due to few/many scripts with no smoke and rollback mechanisms.
- ▶ Late results/feedback from business which reduces ROI from market.

CI/CD the saviour

Manual and error-prone

Implement Continuous Integration : automate compiling, testing, code analysis and artifact storage

Deployments are complicated

- Automate today's manual deployment steps for smoke tests and rollbacks
- Add automated infrastructure provisioning
- Reduce complexity and safe manual troubleshooting time.

▶ Late results/feedback from business

- ► Faster feedback cycles of customers lead to higher customer satisfaction.
- Cost reduction due to less human errors and faster deployments.

Hurdles

- Establishment of CI/CD to legacy system requires investment of time and effort required initially.
- Continuous learning, improvement, development and constant support is required for CI/CD pipeline to sustain for a long run.
- Results of CI/CD can be seen by improvement in delivery process and time taken to deliver to market over a period of time.