CI/CD the way forward

An overview of the prospects and opportunities guaranteed by Continuous Integration and Continuous Delivery for company growth and development

CICD Overview

- CICD means Continuous Integration and Continuous Deployment.

- A mind set in which features are developed in small chunks and delivered very often

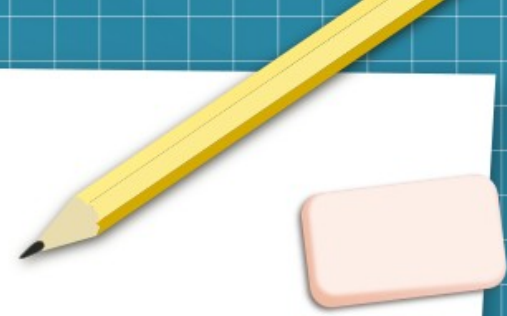- Automates many aspects of product integration and deployment

- Principles

Some Challenges in Software Companies

- Inordinate amount of time wasted in release cycle

- Hassle in Integrating developers work

- Botched code merge creating production issues

- Failing tests may not be priority before deployment

- Only one engineer can deploy a system

- Friction between ops and development departments

Edges offered by CICD

- Integration automatic, very little time required
- All test must pass before code can be deployed
- Issues are detected at integration time, no botch deployment
- Deployment carried out automatically in a consistent manner
- Enforce separation of concerns between different departments
- Monitoring of processes leading to less downtime.

Benefits to Company

- Less time spent on development translates to greater revenue

- Less down time raises client confidence

- Early error discovery reduces the cost of fixing error

- Automated infrastructure reduces cost of unused resources

- Automated rollback after deployment failure protect revenue

- Reduced downtime from crash and major bugs protect revenue