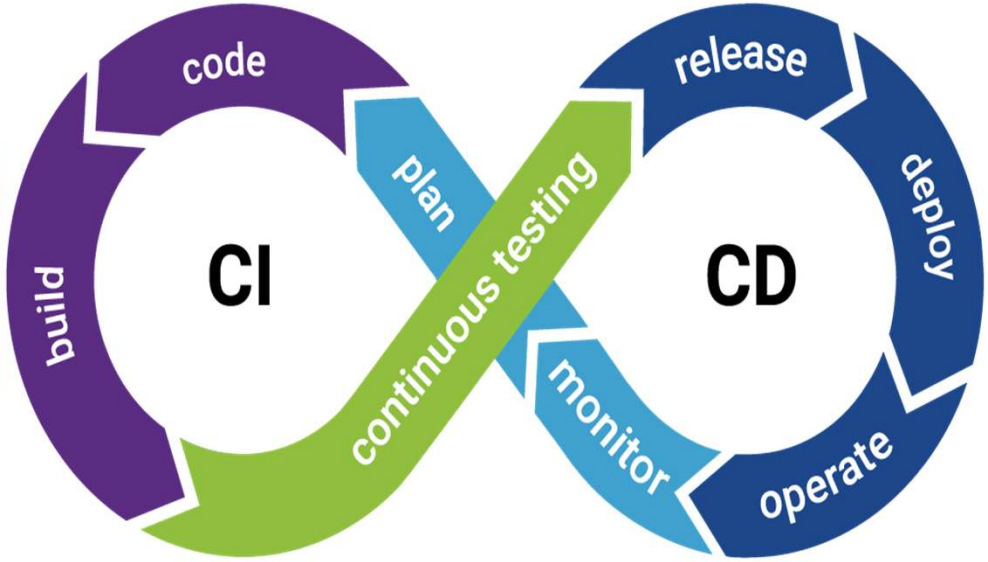
Continuous Integration Continuous Deployment (CI/CD)

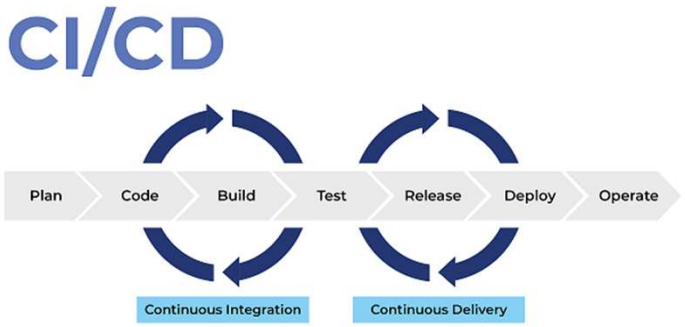


Statement of Problem

- The road to deployment and delivery of application is often tasking on the development team.
- This is because almost everything requires human intervention which makes it prone to error.
- The process of resolving such errors can often affect the set delivery time and lead to lose of customer's confidence in our services.

Why CI/CD?

- CI/CD aims at automating the building, testing and deployment of application
- Combing continuous integration with continuous deployment ensures continuous delivery
- Continuous delivery is a practice where teams produce and release value in small batches. This makes troubleshooting easy in case of a problem



- Consider CI/CD if :
  - Deployments contribute to extended schedule
  - There are frictions between the operation and development departments
  - Deployment depends on one engineer
  - Integration of a new feature is difficult

Benefits of CI/CD

Cost Reduction

- Developers spent less time on issue introduced by new code

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- Saves cost of infrastructure as unused resources can easily be deleted

Avoid Cost

- Deployments are faster and human error reduced
- Time spent in testing is reduced
- Security issues are detected and prevented

Increased Revenue

- New features are released more quickly
- Development to market time is reduced

Protect Revenue

- Time during which a machine is unavailable for use due to an unexpected problem is reduced
- Production environment is quickly returned to a working state

Conclusion

Let’s imagine a world without human errors

Still a work in progress

But with CI/CD, We can definitely reduce it