

FUNDAMENTALS & BENEFITS OF CICD

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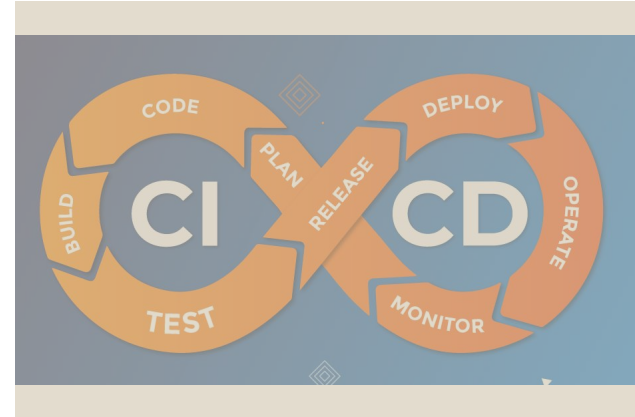
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INTRODUCTION

This document proposes introducing the concept and processes of Continuous Integration & Continuous Deployment



ABOUT CI/CD

CI/CD consists of the practise of below engineering methodology which transforms the process from development to finished products..

CONTINUOUS INTEGRATION

The practice for developers to frequently merge their codes and having automated checks validating the constantly integrated codes.

CONTINUOUS DEPLOYMENT

An engineering approach in which value is delivered frequently through automated deployments of products.

Employing the concept of CICD would mean automating the following processes

- BUILD
- TEST
- ACCEPTANCE TESTING
- DEPLOYMENT TO STAGING
- DEPLOYMENT TO PRODUCTION
- SMOKE TESTS

SOME BENEFITS OF CI/CD

The following are some of the benefits should CI/CD be practised.

AVOID COST

- Processes would be automated which implies less human error and faster deployments..
- Code scan will be done as frequent as code integration which will prevent costly or embarrassing security holes.
- Less bugs in production and less time in testing

INCREASE REVENUE

- New value-generating features would be released more quickly
- Less time to market

COST SAVING

- Developers would spend less time on debugging issues from new developer code

PROTECT REVENUE

- Reduced downtime from a deploy-related crash or major bug
- Automated rollback procedures would ensure quick undo and return of production to working state

CONCLUSION

The practise of CI/CD should be introduced to our environment considering the numerous benefits that will impact our cost savings and increase revenue to the business.