CONTINUOUS INTEGRATION / CONTINUOUS DELIVERY/DEPLOYMENT

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INTRODUCTION

Continuous Delivery is a practice that combines continuous integration and continuous deployment to ensure continuous value creation for customers and end-users

Continuous Integration is the pushing and merging of software code into a central branch in a repository by various developers working on software project for the purpose of ensuring integration and easy tracking of bugs to responsible programmers to ensure the delivery of quality deployable software

Continuous Deployment practices ensure that the output of the continuous integration process which is the quality code produced or artifact is deployed in an efficient manner usually without human interference to be consumed by the end-users of the software.

Continuous Delivery relies on the principles of automated and repeatability of process, that incorporates the process of creating reliable and trustworthy software that ensures consistent results. This process ensures fast delivery of quality software to market and quick release of features.

CI/CD BENEFITS

CI/CD is a cumulation of both continuous integration and continuous delivery.

Continuous Integration ensure integration of code amongst developer to ensure the delivery of quality artifact.

The CI process comprises of the following stages:

Automation

This ensures errors are caught quickly and also less interference of human erro

Time to Market

CICD ensures that we can have software feature releases to our customers quickly and would give us the ability to increase our revenue

Fast Roll back

We can easily roll back deployments which ensures that our reputation is protected when deployments don't go well

Developers and operation focus

Our team can be more focused on their primary duties and can be more innovative to deliver value to our customers