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Using CI/CD to Automate

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Overview

CI/CD stands for Continuous Integration and Continuous Deployment. This is a way of thought and follows through with the action of automating builds, analyses, testing, verifying and deployment of all our cloud-based software. Intuitively, being able to reduce human intervention in all these processes reduces the chances of error.

The goals of introducing this thought process is introduced below

Goals

1. **Generate/Increased Revenue:** There will be enough time for developers to actually work on productive features instead of focusing on errors
2. **Reduce cost:** CI/CD can help reduce the cost of certain builds since a lot of processes are automatic.
3. **Protect Revenue:** CI/CD is a great way of protecting revenue streams from common occurrences such as downtime.
4. **Avoid Cost:** This directly allows us to reduce costs that would otherwise have been incurred.

Specifications

The Automation process would use a Green-Blue Production method. A blue-green deployment is a deployment strategy in which you create two separate, but identical environments. One environment (blue) is running the current application version and one environment (green) is running the new application version. Using a blue-green deployment strategy increases application availability and reduces deployment risk by simplifying the rollback process if a deployment fails. Once testing has been completed on the green environment, live application traffic is directed to the green environment and the blue environment is deprecated.

This would reduce the margin for error for any application we deploy and achieve the goals stated above