



## **Udapeople CI/CD Business Case**

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### **Business Case for CI/CD**

The benefits of Continuous Integration / Continuous Deployment (CI/CD) are as follows:

**CI** – A principal that allows us to automate the process of building, testing & analyzing our code before it is deployed into production. Why is this beneficial?

**Stops revenue loss** – Reduces time wasted on fixing undiscovered bugs that were deployed to production. Less wasted time for developers translates to a reduction in cost as they can spend more time on features for the application.

**Possible Increase in Revenue** – More reliable code translates to less downtime due to application bugs and results in a more reliable product for end users.

**CD** – Is a process in which the deployment of our code artifacts, infrastructure and server state will be defined as reusable configuration templates which means we can deploy our apps to production in a predictable way.

**Stops revenue loss** - By using a configuration management tool such as ansible, it means that our application is less likely to run into issues during deployment as a result of human error or config drift. In other words, a more reliable product for end users.

**Controlling AWS bills** - AWS Costs can quickly get out of control if CD in conjunction with IaC are not adopted early in the process. IaC = Infrastructure as Code

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