



# CI/CD for UdaPeople

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## Overview

This presentation aims to sell the concept of CI/CD to the organisation by highlighting the business value that it has to offer.

## Goals

1. From a high level, highlight the CI/CD concepts
2. Elaborate on the benefits (business value) to the company, with the aim of driving adoption

## What is CI/CD?

CI/CD (meaning Continuous Integration and Continuous Deployment) is a framework that enables better (less buggy, more maintainable) code to get into production more easily and more frequently. It does this by leveraging automation.

## What business is the value?

The concept of CI/CD has several benefits which have distinct value propositions to the business.

- It would enable the developers to catch compile errors immediately after the code is merged. **This saves the company costs in form of developers' billable hours** because developers would spend less time fixing issues that may have otherwise arisen.
- It would enable the developers to catch unit test errors before they get to production. **This saves the company costs in form of developers' billable hours** because there would be fewer bugs in production, therefore, fewer bugs to fix.
- It would enable the development team to detect security vulnerabilities very early. **This would save costs by preventing attacks** that could otherwise hinder access to the product, making the company lose money.
- It would automate the creation of infrastructure. **This would not only save costs in form of billable hours, but it would also save costs that could occur due to human error** associated with creating infrastructure manually.
- It would automate the cleanup of infrastructure. **This would save the company a lot of money because it would be easy to clean up all dangling resources that**



**are not needed**, as opposed to cleaning up manually which could lead to omission and subsequent billing.

- It facilitates faster and more frequent deployments and allows the development team to deploy to production without manual checks/testing. **This helps the company get features/products to the market quicker, thereby increasing revenue.**
- It allows for automated smoke tests. With this, **we can swiftly remedy errors and production crashes caused by new deployments. This protects the company's revenue.**
- It provides us with an easy means to roll back to the last working state, in the event of a deployment failure. **This protects the company's revenue by keeping the system usable at all times.**