

09 Nov 2021

# CI/CD at Udapeople

The fundamentals and benefits of transforming  
Udapeople's production process into a CI/CD pipeline

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# Introduction



# What we heard

## **Revolutionary human resources tool**

Udapeople plans to 'wow' prospective customers with new features and an easy user interface.

## **Geared towards small business owners**

Your target client is the small business looking to improve the care they are providing to their people.

## **Cost conscience**

Keeping overhead low is important for staying within your client's budget.

# Defining CI/CD

## 01

### What is it?

CI/CD is a DevOps practice which combines continuous integration with either continuous delivery or continuous deployment.

## 02

### Continuous Integration

A practice which integrates developers' working code as frequently as possible. Catches bugs and errors early, reduced load on QA team, and reduced developer time spent on retroactively fixing bugs.

## 03

### Continuous Delivery

Extends CI by automatically deploying successful code changes to a production level environment. Automates infrastructure needs, leading to less human error, reduced infrastructure costs, and faster release of features.

## 04

### Continuous Deployment

One step further than Continuous Delivery: successful changes get automatically pushed directly to the customer. Production releases are faster and more reliable, and clients receive a steady stream of improvements and quality features.

# Business Impacts

## **Reduced Cost**

- Less developer time spent on bugs and error resolution
- Automated infrastructure leads to reduced human error and reduced cost on unused resources

## **Avoided Cost**

- Fewer costly production rollbacks from unforeseen bugs
- Decreased risk of costly and embarrassing security holes in production environment
- Reduced overtime billing for critical production error fixes

## **Protecting Revenue**

- Happier customer base from frequent feature release and fewer bugs
- Can quickly rollback production distribution in the event of a major issue

## **Increasing Revenue**

- More frequent 'wow factor' feature releases directly to clients
- Less time to market

# Questions?

