

# CI/CD for UdaPeople

Give UdaPeople App Auto-Deploy Superpower!

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# Our Understanding

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## **Revolutionary Application in Human Resources**

Developing a powerful, and all-in-one solution for Human Resources. We plan to streamline tedious HR processes and improving employee experiences by modernizing every aspect of people management.

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## **Provides Support to Small Business**

We promise to help small businesses care better for their most valuable resource: their people.



# What is CI/CD?

## Definition of CI/CD

CI/CD is the combined practices of continuous integration and either continuous delivery or continuous deployment.

## Continuous Integration

The practice of merging all developers' working copies to a shared mainline several times a day.

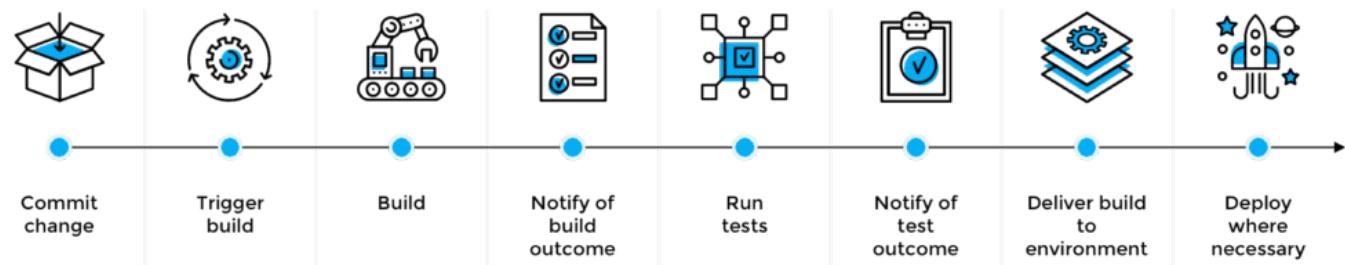
## Continuous Deployment

A software engineering approach in which the value is delivered frequently through automated deployments.

## Continuous Delivery

An engineering practice in which teams produce and release value in short cycles.

### CI/CD Pipeline



# Benefits of CI/CD

## Continuous Integration

- *Less bugs* get shipped to production
- Easier build
- Less context switching for developers
- *Reduced testing cost and time*

## Continuous Delivery

- *Faster deployment* as your team doesn't have to spend days preparing for a release
- Release more often and accelerate the feedback loop with your customers
- *Encourage faster iteration.* Less pressure on decisions for small changes

## Continuous Deployment

- *Faster development* as there's no need to pause the development for releases.
- *Releases are less risky and easier to fix* as you deploy small batches of changes
- Customers see a *continuous stream of improvements.* Quality Increases every day, instead of every month, quarter or year

# Business Impact

What can CI/CD do for us?

## INCREASE REVENUE



**Less time to market  
-> more revenue!**

Deploy to production without manual checks



**Release new features quicker**

Faster and more frequent Production deployments have

## PROTECT REVENUE



**Reduce downtime from crash or bug**

Automated smoke Tests



**Quick undo to return production to working state**

Automated rollback triggered by job failures

## REDUCE/AVOID COST



**Less human error, faster deployments**

Automate Infrastructure Creation



**Less bugs, less time in testing**

Catch unit test failures