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WHY WE SHOULD IMPLEMENT CI/CD PIPELINE

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FOR

UDACITY'S CLOUD DEVOPS COURSE

A lot of times in our software cycle we fall into conflicts such as:

- Investing so much time in releasing rather than delivering*
- Conflicts in code releases*
- Conflicts between the ops team and the devs team*
- Which results in even more conflicts such as schedule slipping.*

SO I'VE COME HERE TO OFFER A SOLUTION.

Introduction to CI/CD Pipeline:

With CI/CD, we can have numerous technical benefits such as:

- Recover from failure faster and quicker learning
- Reduced failure rates
- The ability to automate (almost) everything
- Increased transparency and productivity between the two teams

And so much more, & with those we'll have effects such as: less time and resources consumed. Less human error, quicker customer feedback, increased product quality and better customer satisfaction.

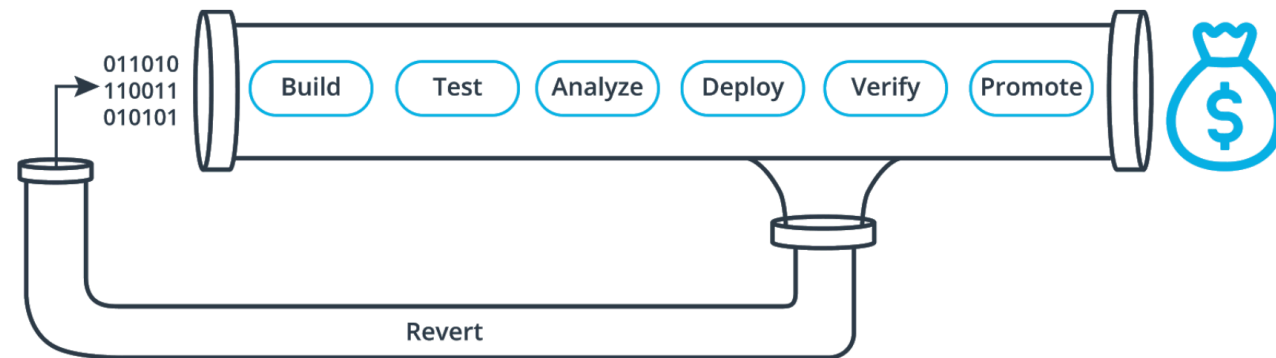
But what is a CI/CD Pipeline?

CI (Continuous Integration): allows us to continuously integrate code into our repository and makes it easily accessible.

CD (Continuous Delivery): allows us to take the code stored in the repository and deliver it to production continuously.

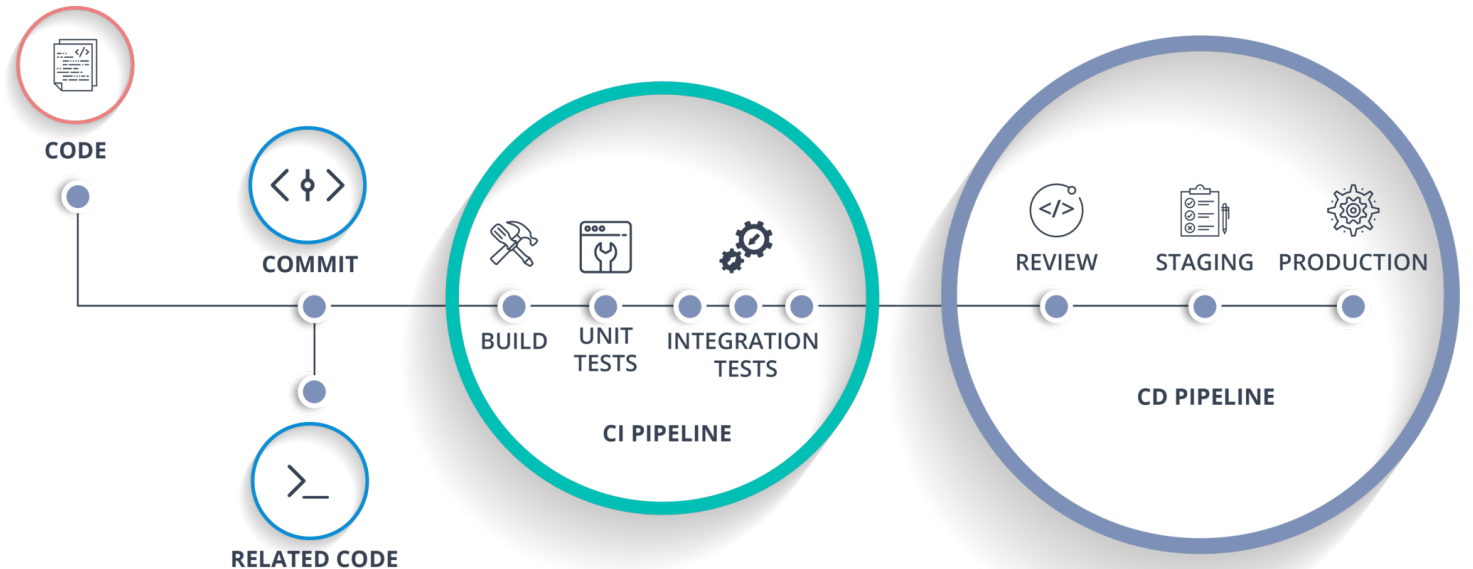
Continuous Deployment: allows us to automatically test the software and validate if there are changes to happen before deploying.

The CI/CD Pipeline



So how do we implement it?

However; we'll need a lot of tools for each step in the pipeline, we would still earn a more cooperative teamplay and more focus on the product development.



And how it would benefit the business?

We would have:

- Reduced costs
- Increased revenue
- Protected revenue
- Increased reliability
- Improved customer experience
- More time for innovation



In Conclusion:

CI/CD would benefit a lot for:



-Business needs



-Software needs



-Development needs

Picture references:

<https://classroom.udacity.com/nanodegrees/nd9991/parts/49ac1f4a-6345-4b9f-85dc-6db637ba8c22/modules/c4ef4afe-70f0-48a5-b671-693114a87a1d/lessons/dcbda48c-aa97-4c42-bc33-ea235089492e/concepts/e5454cf7-5106-465f-be6f-bbf259f93b0f>

(Udacity's Cloud DevOps program)

<https://dzone.com/articles/learn-how-to-setup-a-cicd-pipeline-from-scratch>

<https://www.devopstob.com/> (for the icon in 6th slide)

THANK YOU.
