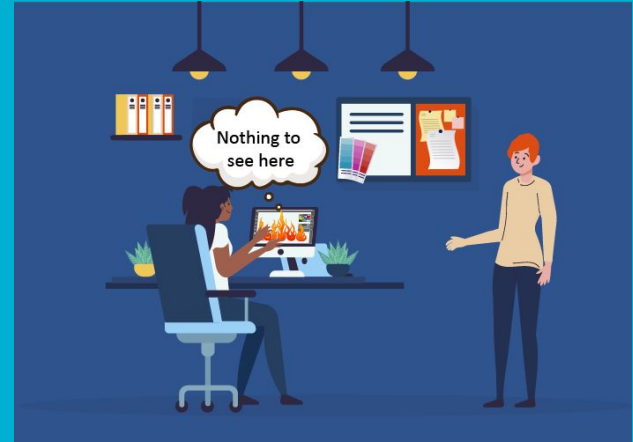# Why CI/CD for Udapeople

Submitted by

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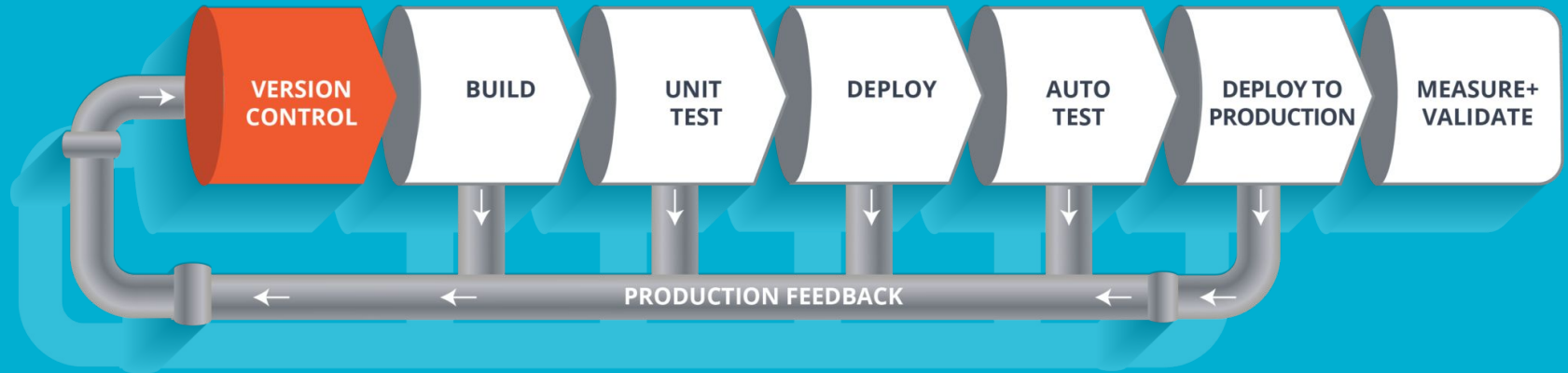
Changing the way we deliver

Previously, development team will develop software, testing team will write test cases for each fix and then the operations team will deploy the software in production servers. This causes

-> Delays in getting fixes to production

(lost opportunity and revenue)

-> Manual deployment could cause bugs in Production

-Provisioning too many resources that causes

unnecessary money burn

What is CI/CD

- Continuous integration(CI) is to merge all developer working copies to a shared repository several times in a day and continuous deployment/delivery(CD) is where the code changes are automatically prepared for a procution release.

CI/CD Benefits for business

1. Faster Time-to-Market: Allows teams to deploy changes to production more quickly, leading to faster releases and more frequent updates.
2. Higher Quality Software: Automated testing catches bugs and defects earlier in the development cycle, leading to higher quality software and better customer satisfaction.
3. Better Collaboration and Communication: CI/CD facilitates better collaboration and communication between team members, resulting in more efficient and effective development.
4. More Efficient Resource Utilization: Optimizes resource utilization by identifying and addressing performance issues, resulting in reduced infrastructure costs and improved scalability.
5. Reduced Risk: Automating tasks reduces the risk of manual errors or misconfigurations, leading to improved reliability and stability, and reduced downtime or service disruptions.

Thank you!