

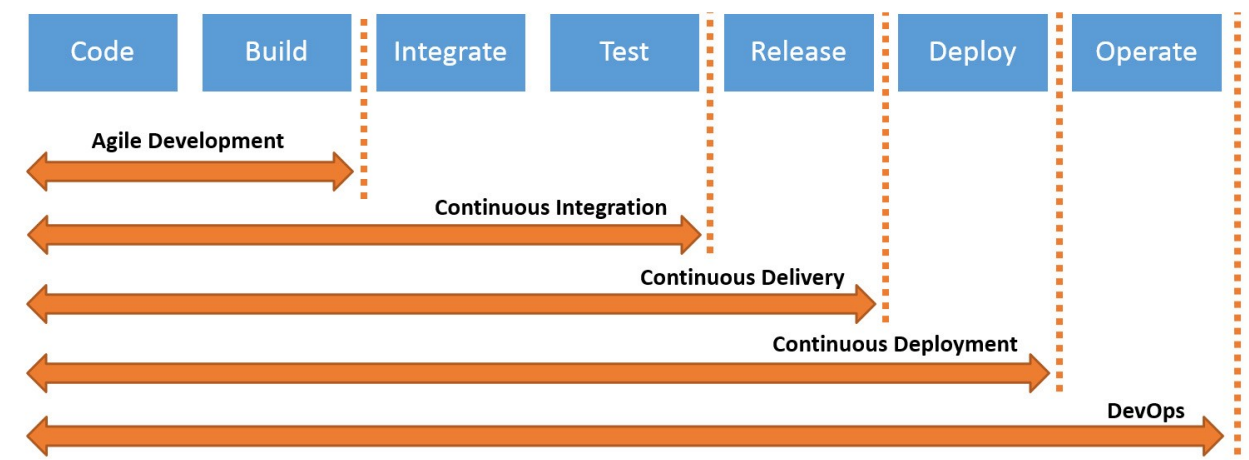
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## CI/CD BENEFITS PROPOSAL

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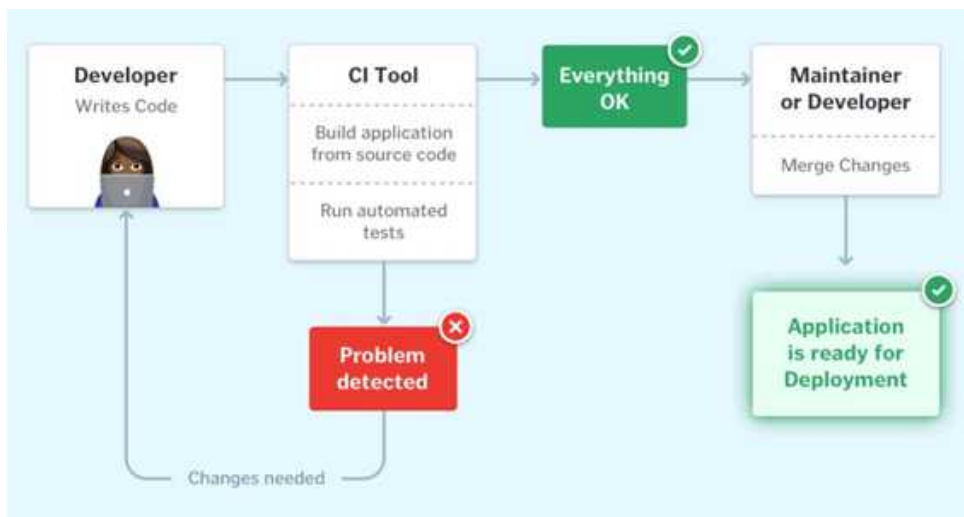
## WHAT DOES CI/CD? CONCEPTS EXPLAINED BELOW:

- ▶ CI/CD consist of three major concepts

- **Continuous Integration**

Continuous Integration describes the process of merging developer branches to the main branch several times a day. Each merge triggers an automated code build and test sequence, which ideally runs in less than 10 minutes.

- Catch Compile errors After Merge.



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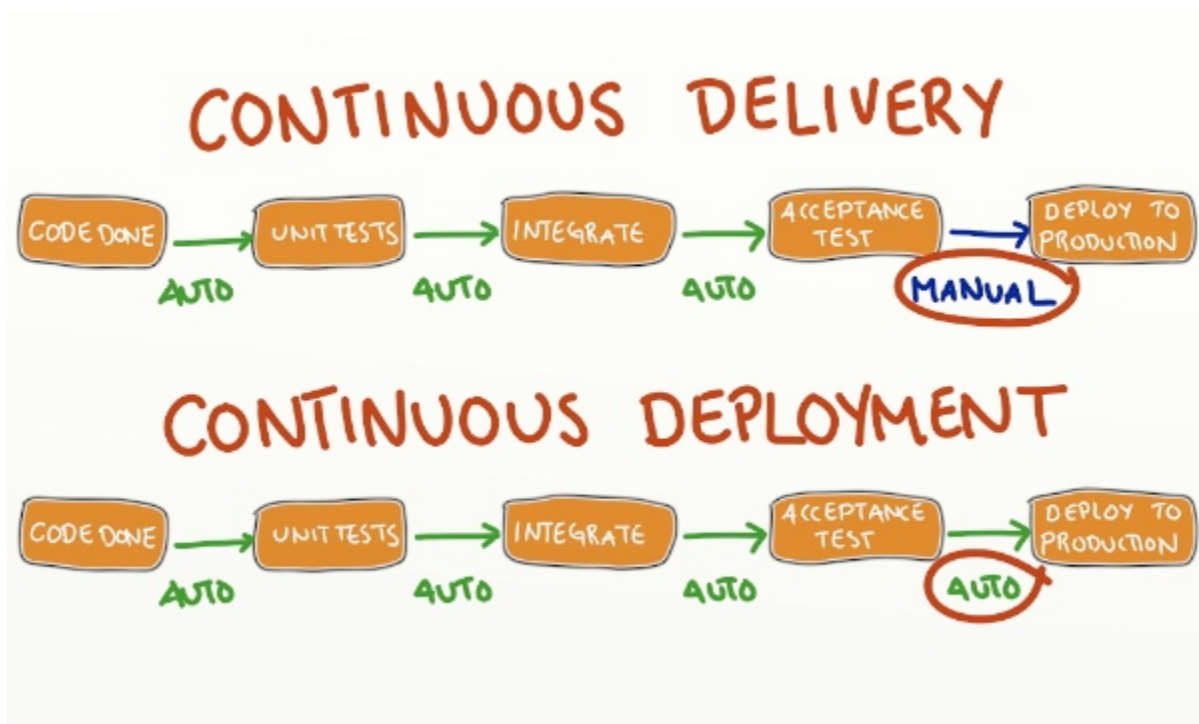
- **Continuous Delivery**

In addition to Continuous Integration, Continuous Delivery makes sure that changes of a software product can be released quickly to customers in an automated way and at any point in time.



## ► Continuous Deployment: -

Continuous Deployment extends Continuous Delivery in such a way that it allows frequent automated deployments without any human interaction. Typical phases in Continuous Deployment are Infrastructure Provisioning, Smoke Testing, Production Deployments and automated Rollbacks.



## WHAT ARE OUR CURRENT PAIN POINTS?

- Processing software delivery manually. Due to this delivery taking a day some times.
- Deploying code manually takes time and issues due to the check or config missed.
- Our manual release process is error-prone and always leads to delays of production deployments
- Releases for every 4 months.
- We get late feedback from the business department which prevents us from creating flexible solutions.

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## Benefits of CI/CD:-

- CI/CD allows organizations to ship software quickly and efficiently
- Higher Efficiency of web development.
- Faster Product Delivery
- Easier Rollback of Code Changes.
- Fastest Deployment and Noisy of Build outcome.
- Cost reduction due to less human errors and faster deployments
- Reduce complexity and save manual troubleshooting time.
- Automated Smoke Tests and Rollbacks will protect project revenue due to reduced downtimes
- from deploy-related crashes and fast and automated rebuilding of production ready state
- weekly Releases.
- Faster Feedback from Business.