FUNDAMENTALS AND BENEFITS OF CI/CD

CI/CD - Overview

Image Source : https://www.atlassian.com/
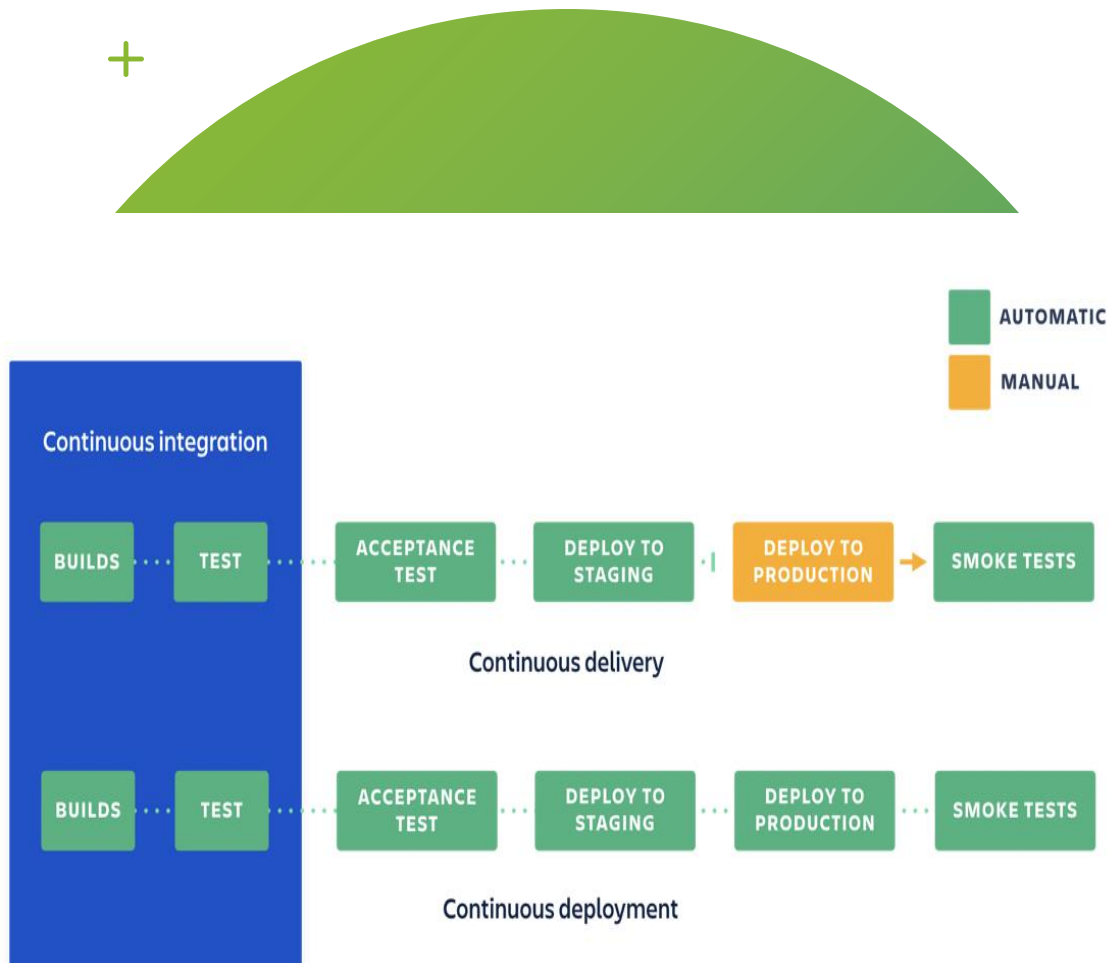
CI - Continuous integration :

- A process of continuously checking in the latest copy of source code to a shared version control system where all the developers of a team can check out the latest change

CD - Continuous Deployment :

- Automated deployment
- Change run through the CI/CD pipeline and passing builds get deployed automatically

Benefits of CI/CD

- **Manual effort reduced** which equates to reduced opportunity for human error.

- From end users perspective, this means high-quality change can be put to use at a much higher **velocity**, thus driving **business growth**

- Customers can see a number of enhancements in **short duration**

- Long term cost benefits due to **reduced error** and **quicker deliveries**

- Testing **cost reduced** due to automated tests

- Team can spend less time working on repeated process and focus on improving quality -> **productivity increased**

- **Reduced risk** in deployments and in case of issues, it gets **easier to fix**