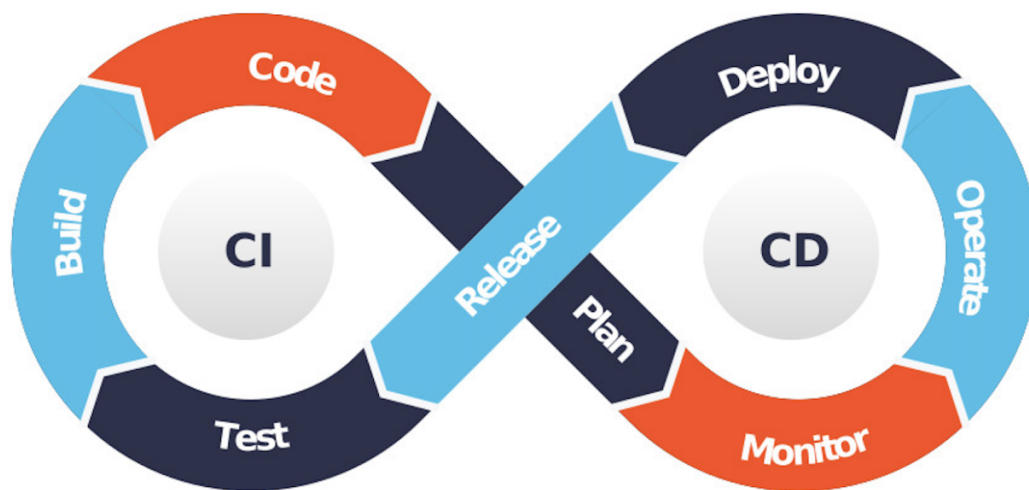


CI/CD

How it helps us improve our work?

What is CI/CD?

CI/CD (Continuous Integration/Continuous Deployment) is a method for automating software development, testing, and deployment. It combines two important concepts: Continuous Integration (CI) and Continuous Deployment (CD).



Continuous Integration (CI) is the process of continuous integration of source code from members of the development team. Instead of periodic or scheduled code consolidation, CI requires developers to submit source code changes to a common repository, which then automatically builds and tests the software.

Continuous Deployment (CD) is the process of automating the deployment of a new version of the software after it has passed the CI process. With CD, source code is automatically built, tested, and deployed to the production environment automatically.

Why should we apply CI/CD?

Let's look at some of the benefits we can get by applying CI/CD:

1. Using **CI**, we can detect bugs at the earliest stage so that new features can be fixed and integrated continuously.
 - Devs are freed from testing and quickly fix bugs that arise.
 - Develop new features faster without waiting.
2. Using **CD**, we can ensure stability and rapid deployment, and provide high reliability for the software.
 - The software can launch faster.
 - Guaranteed quality makes customers more satisfied.

Combining all of the above will help increase profits and reduce costs by automating many processes to help products launch faster and with better quality.