

## WEEK-2

### CI/CD

what is ci/cd?

Continuous integration and continuous deployment are two different things. Continuous integration takes care of code when commit and it runs test. While continuous deployment takes care of build, release and bugs.

What's the use of ci/cd

Before ci/cd code got checked once in a day in midnight. And because of that there were many conflicts and bugs. As there were many developers working on the same code.

With ci/cd codes get test directly after the commit and developer were immediately informed about their bugs.

Due to this companies can release product on the promised time and generate more profit.

ci/cd is an automation process, a journey of code from developers to production. Code can get checked very often so it can be a healthy practice to perform.

There are many tools for ci/cd: But famous are Jenkins and Circle CI

Jenkins is the server-based architecture written in Java.

Though Jenkins UI is not very good but it is famous because of its vibrant community and lot of contributors contributing into it.

Also Jenkins installation requires some manual process and with the small change the pipeline gets broken but developers love just hides this cons.

I have learned how to integrate Jenkins with GitHub, how to install Jenkins and how to add new users.