

JENKINS

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Jenkins is an open source server and it is a process of continuous integration which helps in fast development and testing of application in an automated way. It supports the software development life cycle.

CONTINUOUS INTEGRATION

It is a continuous process of four steps: commit, build, test, and deploy :-

- **Commit :-** In this, every developer in the project completes their tasks of writing codes which are assigned to them respectively to the application.
- **Build :-** In this, after committing all codes by developers, the application build is ready.
- **Test :-** In this, once software build is ready, it goes for testing. If the build passes, it goes to the next step; otherwise, it will notify the developer team to fix the bug.
- **Deployment :-** After build is passed by the testing phase, it goes for deployment.

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WHY NEED OF CONTINUOUS INTEGRATION WITH JENKING ?

we need of continuous integration with jenkins because :-

- In this approach, as soon as a single developer commits code then code is built and test. not like first all developers commits code at same time.
- The code is built immediatly as soon as any developer commit code.
- In this approach, it is easy to detect bug in code which causes failure of built.
- By this it is easy to find defects and it helps in reducing time in application development and deployment.