JENKINS

* **Continuous Integration,** in its simplest form, involves a tool that monitors your version control system for changes. Whenever a change is detected, this tool automatically compiles and tests your application. If something goes wrong, the tool immediately notifies the developers so that they can fix the issue immediately.
* Continuous Integration can also help you keep tabs on the health of your code base, automatically monitoring code quality and code coverage metrics, and helping keep technical debt down and maintenance costs low.

Main Points:

* Continuous Integration is about reducing risk by providing faster feedback
* It is designed to help identify and fix integration and regression issues faster, resulting in smoother, quicker delivery, and fewer bugs
* By providing better visibility for both technical and non-technical team members on the state of the project, Continuous Integration can open and facilitate communication channels between team members and encourage collaborative problem solving and process improvement.
* By automating the deployment process, Continuous Integration helps you get your software into the hands of the testers and the end users faster, more reliably, and with less effort.
* The practice of automatically deploying every successful build directly into production is generally known as *Continuous Deployment*.