What is Continuous Integration?
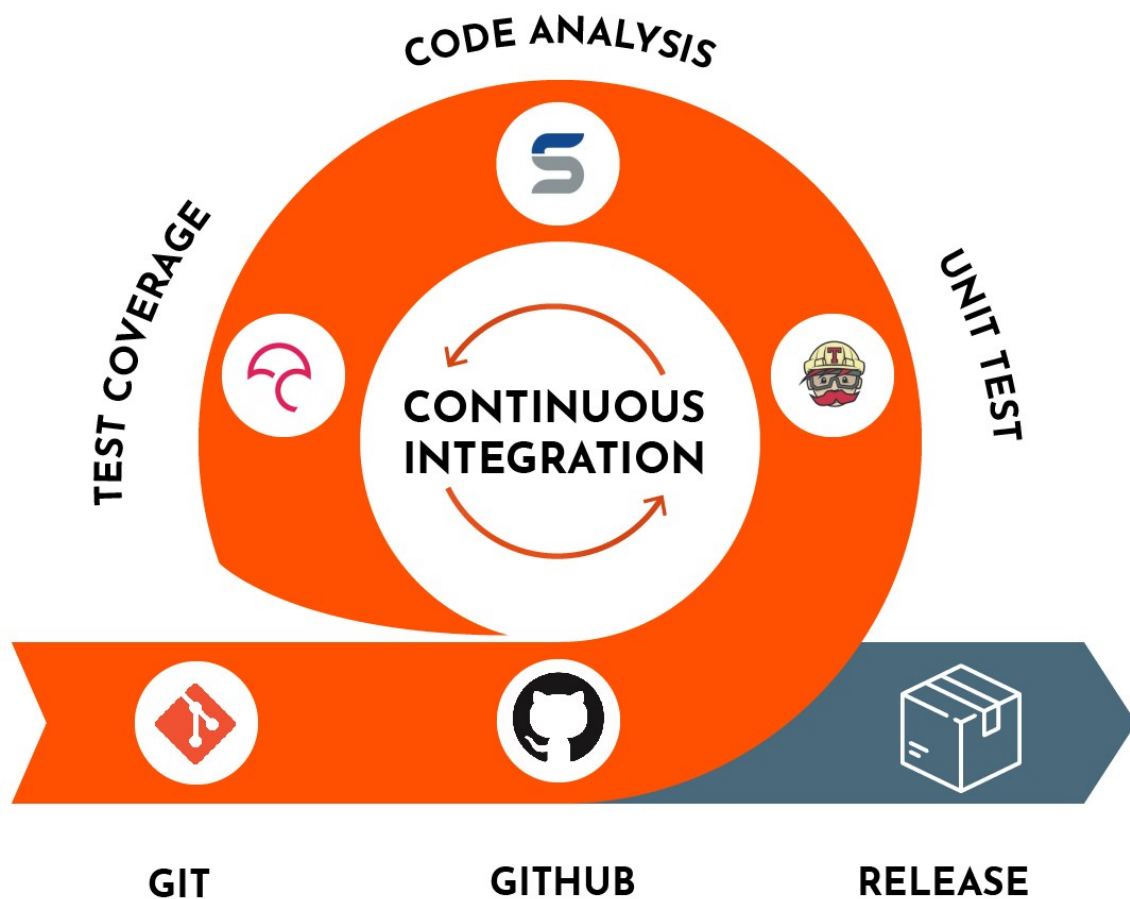
Continuous Integration (CI) is a development practice where developers integrate code into a shared repository frequently, preferably several times a day. Each integration can then be verified by an automated build and automated tests. While automated testing is not strictly part of CI it is typically implied.

One of the key benefits of integrating regularly is that you can detect errors quickly and locate them more easily. As each change introduced is typically small, pinpointing the specific change that introduced a defect can be done quickly.

"Continuous Integration doesn't get rid of bugs, but it does make them dramatically easier to find and remove." -Martin Fowler, Chief Scientist, ThoughtWorks

<u>Source Control Managements for distributed system</u>

GitHub

GitLab

Bitbucket

Build (by technology)

Maven

npm

Gradle

<u>QA Quality and Security</u>

sonarqube

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kiuwan

<u>Artifacts</u> (Get the binary files and upload to the Artifactory Repository)

Nexus