

A large red speech bubble with a white outline, containing the text 'CI/CD' and 'Continuous integration and continuous delivery'. The bubble is centered on a light gray background with faint, concentric circular lines. The bubble has a small tail pointing downwards.

CI/CD

Continuous integration and continuous delivery

What is a CI/CD

- A CI/CD pipeline automates your software delivery process. The pipeline builds code, runs tests (CI), and safely deploys a new version of the application (CD)

What do CI and CD mean?

- CI, short for Continuous Integration, is a software development practice in which all developers merge code changes in a central repository multiple times a day. CD stands for *Continuous Delivery*, which on top of Continuous Integration adds the practice of automating the entire software release process

Benefits of CI/CD

- **Improvement in Collaboration and Quality**
- **Implementing continuous integration, developers do frequent code commits which makes it easier to identify defects and quality related issues. On the other hand, following the conventional methods force developers to do the same task again and again. This ultimately affects their efficiency and brings less return on investment. Continuous integration leads to lesser merge conflicts due to the shorter commit cycles which ultimately save a lot of business hours which can be spent on creating more new interesting features.**