



Sahn Lam • Following

Coauthor of the Bestselling 'System Design Interview' Series | Cofounder at ByteByteGo

[Visit my website](#)

42m • 🌐

...



What is CI/CD

Continuous Integration (CI) is a foundational practice in DevOps where developers frequently merge code changes into the main branch, often multiple times a day. This process is complemented by automated testing to ensure new changes integrate seamlessly with existing code. The primary goal of CI is to find and address bugs quicker, improve software quality, and reduce the time required to validate and release updates.

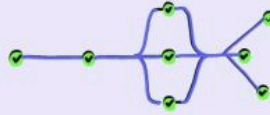
Continuous Deployment (CD) automates deploying code changes to a production without human intervention. It ensures every change passing all automated tests gets deployed. It accelerates customer feedback by releasing updates more frequently. CD also reduces pressure on developers by eliminating manual release processes.

Some companies rely on Continuous Delivery instead. Continuous Delivery extends CI by automatically preparing code changes for release to production. However, unlike Continuous Deployment, it requires manual approval prior to production deployment. This practice ensures that all changes are automatically built, tested, and ready for release. It allows teams to deploy new changes anytime at the push of a button.

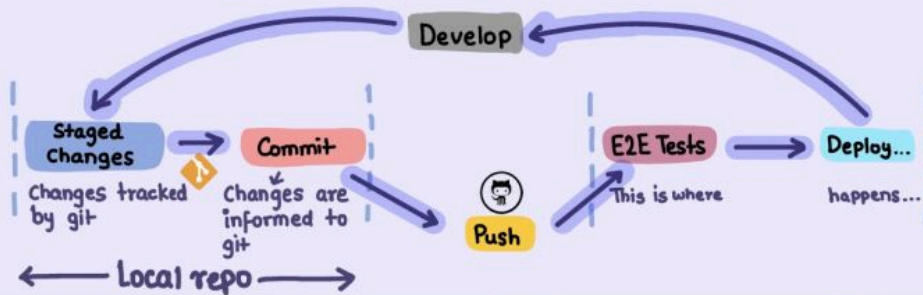
--

Subscribe to our weekly newsletter to get a Free System Design PDF (158 pages): <https://bit.ly/496keA7>

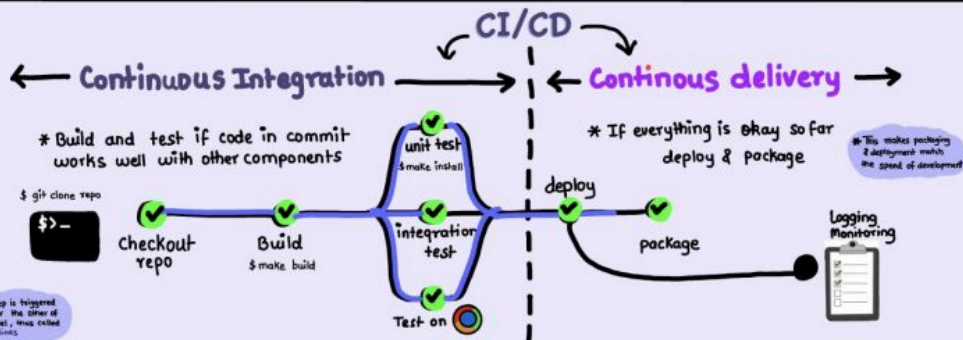
CI/CD Pipelines



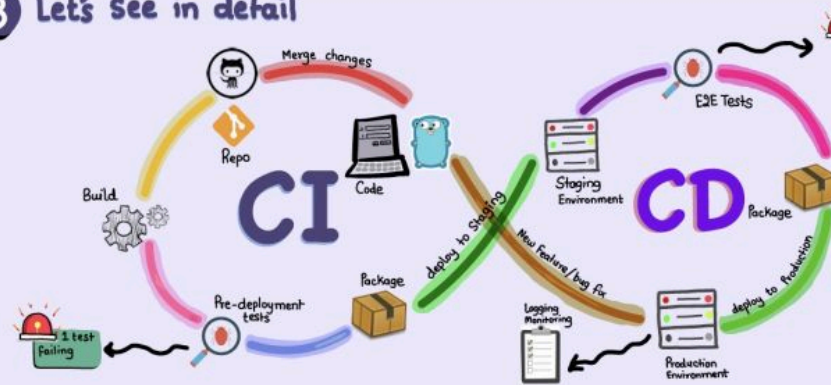
1 Software development Lifecycle



2



3 Let's see in detail



SecurityZines.com In Collaboration with ByteByteGo

Designed With
Love By @Sec_Y0