CI/CD

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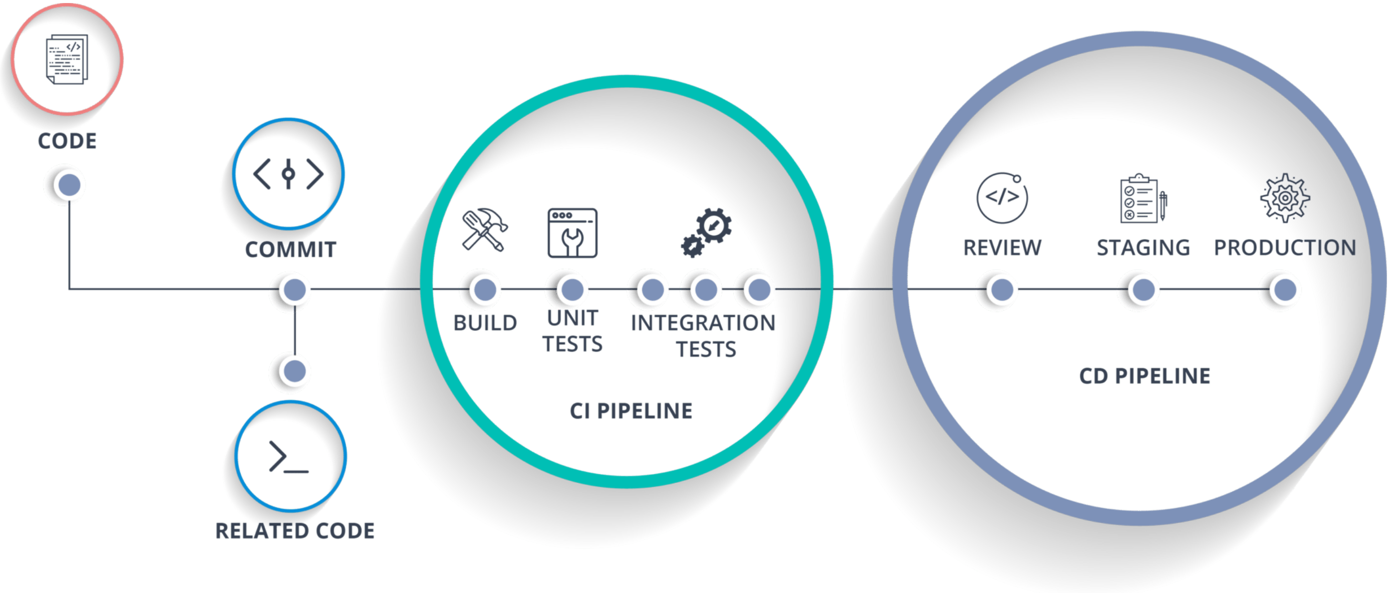
Current Process

- In modern day app development multiple developers are working simultaneously on different features of the same app. However, if an organization is set up to merge all branching source code together, the resulting work can be tedious, manual, and time-intensive. That's because when a developer working in isolation makes a change to an application, there's a chance it will conflict with different changes being simultaneously made by other developers.
- This problem can be further compounded if each developer has customized their developer environment
- All this leads to a poor developer experience and developers usually get frustrated and want to leave the company
- From the business, we end up missing a lot of deadlines which translates to lost $$$

CI/CD



Continuous Integration + Continuous Deployment = Continuous Delivery

Source : https://solidstudio.io/blog/ci-cd-pipelines.html

Continuous Integration

- Continuous integration (CI) helps developers merge their code changes back to a shared branch, or “trunk,” more frequently—sometimes even daily. Once a developer’s changes to an application are merged, those changes are validated by automatically building the application and running different levels of automated testing, typically unit and integration tests, to ensure the changes haven’t broken the app

Continuous Deployment

- Continuous Deployment is the practice of deploying code in an automated fashion to the production server. Since there is no manual intervention chances of error are minimal

Benefits

- Keeps code clean
- Great developer experience !
- More frequent deployments
- Error free deployments
- No missing project milestones !