
CI/CD

Fundamentals and benefits of CI/CD

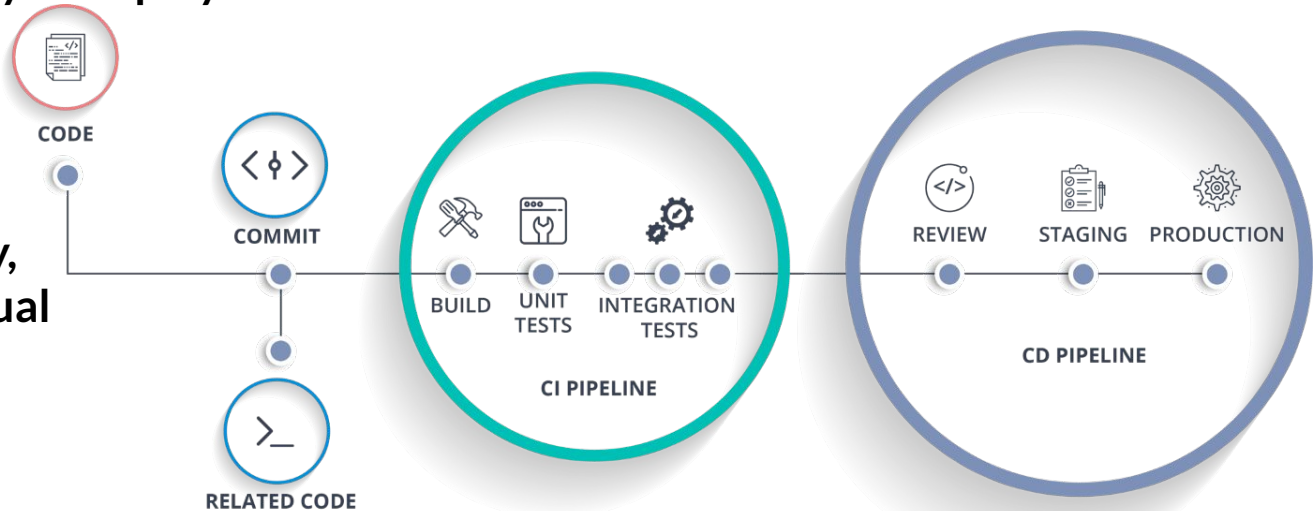
What is CI/CD ?

Continuous Integration(CI) is based on the idea that teams of programmers who make frequent releases involving small changes to code produce reliable and easily debugged output.

Continuous delivery(CD) means a developer's changes to an application are automatically bug tested and uploaded to a repository (like GitHub or a container registry), where they can then be deployed to a live production environment by the operations team.

Organizations that adopt continuous integration have a competitive advantage because of the ability to deploy faster.

Organizations that have implemented CI are making revenue on the features they deploy, not waiting for manual code checks.



CI Benefits

- **Iterate faster:** Smaller code changes allow teams to iterate faster and are easier to manage.
- **Find problems easily:** Teams can find problems in code because all code is managed and tested in smaller batches.
- **Have better transparency:** Continuous feedback through frequent testing helps developers see where bugs are.
- **Reduce costs:** Automated testing frees up time for developers by reducing manual tasks, and better code quality means fewer errors and less downtime.
- **Make users happy:** Fewer bugs/errors make it into production, so users have a better experience.

CI/CD Business Benefits

Reduce Cost

Less developer time on issues from new developer code

Avoid Cost

Less bugs in production and less time in testing

Increase Revenue

Less time to market

Protect Revenue

Reduced downtime from a deploy-related crash or major bug

End.
