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Udacity Project 3 - Udapeople →

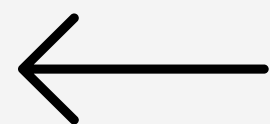
# CICD

All the benefits

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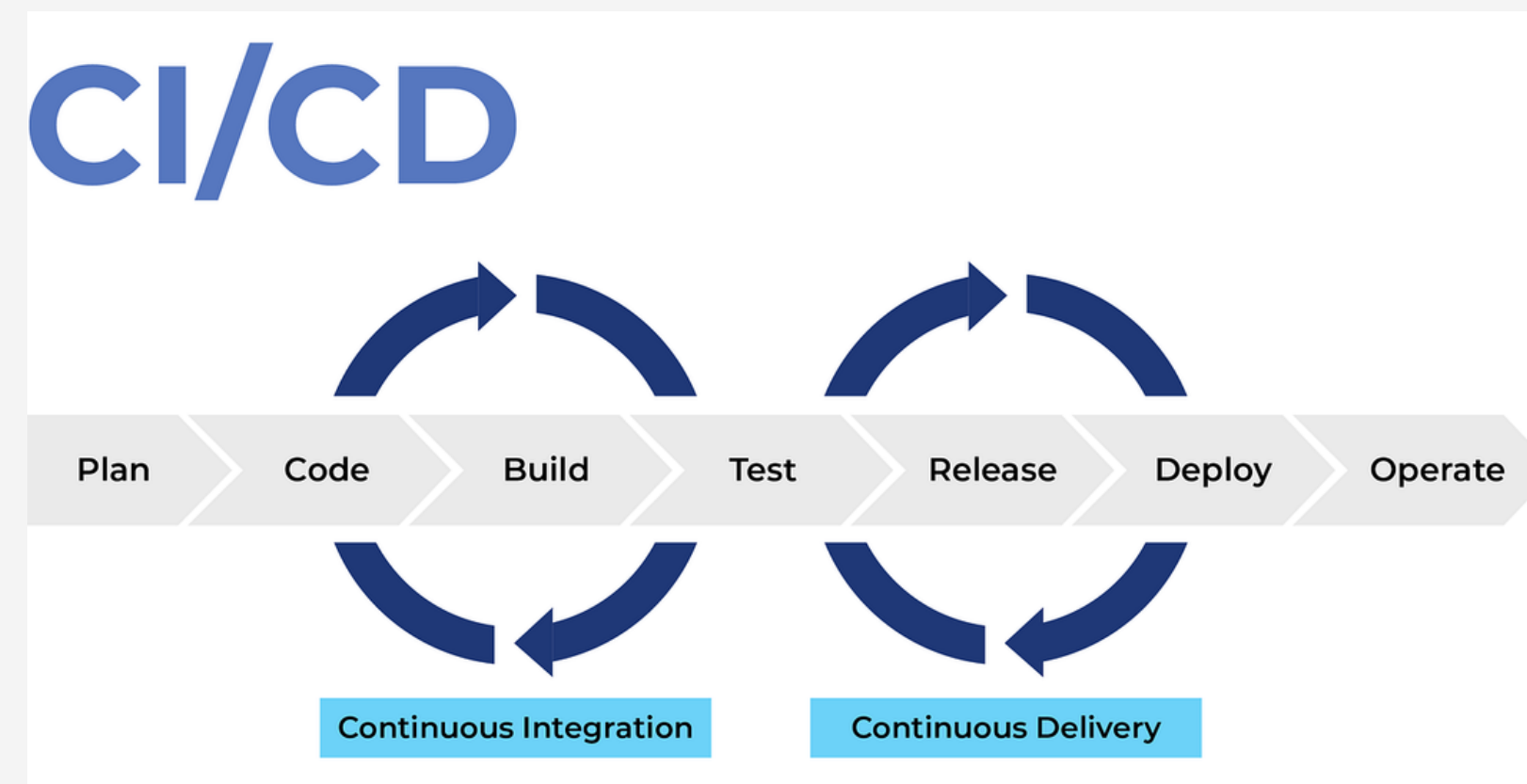
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# What is CI/CD



Continuous Integration (CI) is the practice of merging code changes from multiple developers into a shared repository, then running automated tests to ensure that the changes didn't break anything. This helps catch issues early in the development process, reducing the cost of fixing bugs later on

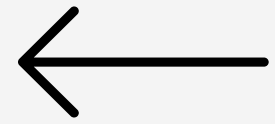


Continuous Delivery/Deployment (CD) is the practice of automating the process of deploying software to production environments. This helps reduce the time it takes to release new features, allowing businesses to quickly respond to market demands and stay competitive.

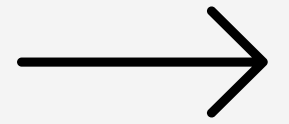
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# Cost Saving



- By automation, all compile error, testing error, vulnerabilities, etc. are turned into sirens and transparent in a team. It prevents costly bugs in production.
- By automation, running tests, creating reports are done automatically. Deploy checklist no longer depends on a person or specific group. Team is free to focus on adding more features to the product.



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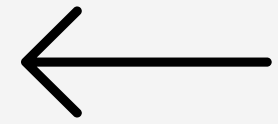
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# Quality Improvement

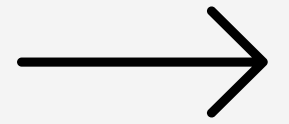


- Due to testing done automatically. All testing are configure to run for every commit
- This can help improve the quality and reliability of your software.

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# Speed Increase



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## Goal

Automating the build and deployment process can help reduce the time it takes to release new features.

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## Result

This can help company respond to market demands faster, keeping you ahead of the competition.



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# Collaboration enhancement



- Sharing code changes early and often can help developers work more collaboratively
- Catch issues before they become bigger problems

