# CI/CD

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# WHAT IS CI/CD?

CI/CD is a two-step process that dramatically streamlines code development and delivery using the power of automation. CI makes developer tasks like source code integration and version control more efficient so software can get into production faster. CD automates software testing and deployment.

Together, CI/CD is a powerful and unmatched engine of modern software development and it has untold benefits for businesses.

Source: https://about.gitlab.com/blog/2022/02/15/ten-reasons-why-your-business-needs-ci-cd/

# Benefits

## Revenue

- **Automated testing enables continuous delivery**, which ensures software quality and security and increases the profitability of code in production
- Eliminate manual processes -> developers have more time to improve product quality -> saving effort, increase revenue in the mean time

- Source: https://harness.io/blog/business-benefits-of-ci-cd
- https://www.spiceworks.com/tech/devops/articles/what-is-ci-cd/
- https://medium.com/peerxp/the-ci-cd-pipeline-is-one-of-the-fundamental-practices-for-devops-implementation-and-it-bridges-938430b145db

# Benefits

## Cost-efficient

- Ensure superior code quality: Test automation -> detect code problems nearly in real time -> Time is saved, money is saved

- Automation reduces the cost: CI/CD automates the handoffs, the source code management, the version control system, the deployment mechanisms, and, of course, so much of the testing.

- CICD -> Cut down on integration effort -> increase productivity -> save manday -> save cost

- CICD -> Intergrate with quality control solution -> increase product quality -> allow developers to aware of issues sooner

PRESENTATION TITLE

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