

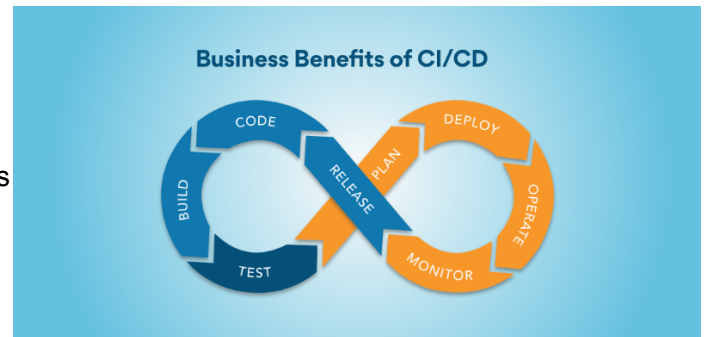
# What is CI/CD?

The CI/CD pipeline is one of the best practices for dev-ops teams to implement, for delivering code changes more frequently and reliably.

## How continuous integration improves collaboration and quality?

when developers work on shorter commit cycles, it is less likely for multiple developers to be editing the same code and requiring a merge when committing.

also, The rationale behind this is that it's easier to identify defects and other software quality issues on smaller code differentials rather than larger ones developed over extensive period of time.



## How does CI CD save money?

- running tests across multiple operating systems, multiple browsers. This allows the team to find issues more quickly and earlier in the cycle, where it is cheap, instead of long-term downtime which not only affect your revenue negatively but also undermines your company's credibility.
- getting your product to market before your competition.
- releasing new features and bug fixes as much as needed which leads to happy customers.
- saving troubleshooting costs, as developers are not wasting hours on bug-fixing.

## How CI/CD automation helps save time compared to manual deploying?

It's hard to imagine how much time the process of testing and delivering those changes demanded, if done manually, some reports said that organizations that utilize CI/CD practices deploy 46x more frequently and spend up to 44% more time on creative work.