

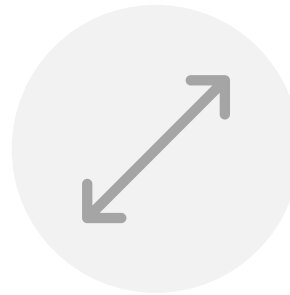
Fundamentals and Benefits of CI/CD

**Achieve, Build, and Deploy Automation for
Cloud-Based Software Products**

What is CI/CD?



CI/CD is the combined practices of continuous integration (CI) with continuous delivery or continuous deployment (CD). The purpose of CI/CD is to allow development teams to deliver code changes more frequently and reliably.



To stay competitive in the current market, companies strive release features as fast as possible. The platform that best enables these rapid release cycles is a seamless CI/CD pipeline.

Why should you adopt a CI/CD model?

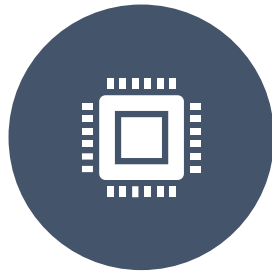
- Faster time to market
 - Expend less manual effort
 - Efficient infrastructure
 - Make easier rollbacks
 - Reduce risk
- CI/CD facilitates a faster time to market. Automation streamlines parts of the process, while quicker error detection leads to less time putting out fires. Customer satisfaction can increase as well when you're providing more regular updates and a positive user experience.

How CI/CD automation helps save money compared to manual deploying



DEEPLY EXPENSIVE DOWNTIME.

long-term downtime does not only influence your revenue negatively but also undermines your company's credibility.



TROUBLESHOOTING COSTS.

With ci/cd pipeline properly automated, the process of the product deployment and release is more reliable and developers are not wasting hours on bug-fixing.



SWITCHING/ONBOARDING COSTS.

automated ci/cd let new members of the team get down to business right away without having to deal with an exhausting learning curve.



STAFF TURNOVER COSTS.

happy employees — more successful company! when developers are

Conclusion

- The benefits of an automated CI/CD pipeline range from practical considerations like code quality and rapid bug fixes, to ensuring you're building the right thing for your users and improving your entire software development process.
- Despite the name DevOps suggesting a focus on developer and operations teams, building a CI/CD pipeline provides an opportunity for collaboration across a whole range of functions. By streamlining the steps to release your product, you provide your team with more insights into how your product is used and free up individuals' time so they can focus on innovation.