

# Fundamentals and Benefits of CI/CD

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# Overview

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- CI and CD stand for continuous integration and continuous delivery/continuous deployment.
- CI is a modern software development practice in which incremental code changes are made frequently and reliably.
- Automated build-and-test steps triggered by CI ensure that code changes being merged into the repository are reliable.
- The code is then delivered quickly and seamlessly as a part of the CD process.
- In the software world, the CI/CD pipeline refers to the automation that enables incremental code changes from developers' desktops to be delivered quickly and reliably to production.



# Why is CI/CD important?

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- allows organizations to ship software quickly and efficiently.
- facilitates an effective process for getting products to market faster than ever before, continuously delivering code into production,
- ensuring an ongoing flow of new features and bug fixes via the most efficient delivery method.

# What are the benefits of CI/CD?

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- Automated testing enables continuous delivery, which ensures software quality and security and increases the profitability of code in production.
- CI/CD pipelines enable a much shorter time to market for new product features, creating happier customers and lowering strain on development.
- The great increase in overall speed of delivery enabled by CI/CD pipelines improves an organization's competitive edge.

# Benefits...

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- Automation frees team members to focus on what they do best, yielding the best end products.
- Organizations with a successful CI/CD pipeline can attract great talent. By moving away from traditional methods, engineers and developers are no longer bogged down with repetitive activities that are often highly dependent on the completion of other tasks.



# Business Benefits Of CI/CD

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- Superior Quality Code
- Accelerated Release Cycles
- Loyal Customer Base
- Detection & Isolation
- Easy Maintenance & Updates
- Cost Deduction
- Improved Mean Time To Resolution (MTTR)

# Conclusion

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- CI/CD will ultimately become imperative for your business – the benefits are simply too many. Migrating from the legacy software release cycles to CI/CD won't just accelerate the time-to-market, but also result in a productive and satisfied development team.



**Thank you**

