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# Business Benefits Of CI/CD

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# Overview

- What is CI/CD
- Continuous Integration
- Continuous Deployment
- Continuous Delivery
- Benefits Of CI/CD



# What is CI/CD

CI/CD is simply using the power of automation. It is a two-step method that significantly accelerates code development and delivery. CI streamlines developer responsibilities like source code integration and version control, hastening the release of products. Software testing and deployment are automated via CD. Together, CI/CD is a potent and unparalleled engine for contemporary software development, and it offers countless advantages to Organizations.

# Continuous Integration

Continuous integration is the process of automatically integrating code updates from many contributors into a single software project (CI). Developers can regularly merge code changes into a single repository using this essential DevOps best practice, and then builds and tests can be run. Before integration, automated tools are used to verify that the new code is correct.

# Continuous Deployment

Continuous deployment implies having continuous testing and operations to such a high degree that new software versions can be vetted and deployed into a production environment without requiring human interaction.

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# Continuous Delivery

Thanks to continuous delivery, the "main" or "master" branch of an application's source code is constantly in a release-ready state. The most recent version of an application/software can be deployed at the touch of a button and without worry about failure.

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# Benefits of CI/CD

- Ensure Superior Code Quality
- Deliver faster with an accelerated release rate
- CI/CD Reduces Cost
- Monitoring Metric Data
- Simplified Rollback
- Fault Isolation

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# Summary

CI/CD can alter how IT supports businesses by providing much faster and more effective changes to an environment. However, it is no silver bullet; it must be added and operated with care, or else it will introduce a new layer of chaos.

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# Thanks

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