

# Cloud DevOps – CI/CD

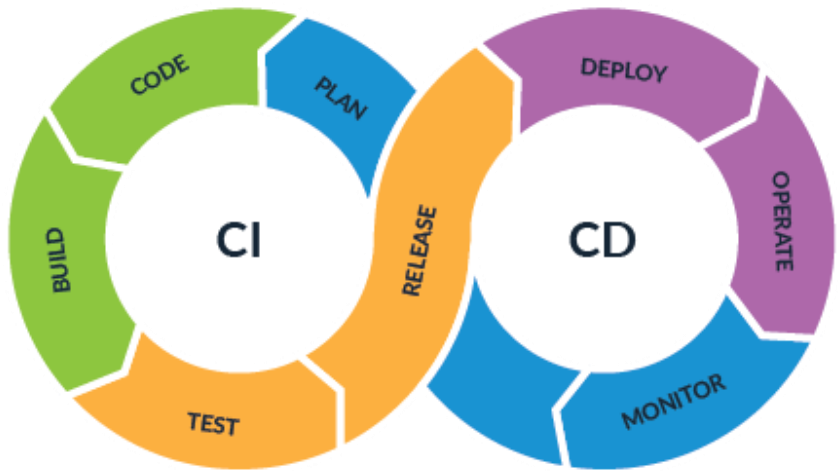
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FUNDAMENTALS AND BENEFITS

- Deepa SJ

# Overview

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A compound of development (Dev) and operations (Ops), DevOps is the union of people, process, and technology to continually provide value to customers.

DevOps enables formerly siloed roles—development, IT operations, quality engineering, and security—to coordinate and collaborate to produce better, more reliable products.

# What is CI/CD?

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Continuous delivery (CD) is the automated delivery of completed code to environments like testing and development. CD provides an automated and consistent way for code to be delivered to these environments.

Continuous deployment is the next step of continuous delivery. Every change that passes the automated tests is automatically placed in production, resulting in many production deployments.

# Benefits of DevOps

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Accelerating time to market

Adapting to the market and competition

Maintaining system stability and reliability

Improving the mean time to recovery

# DevOps Practices

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Continuous integration and continuous delivery (CI/CD)

Version Control

Agile software development

Infrastructure as Code

Configuration management

Continuous monitoring