

Continuous Integration/Continuous Deployment (CI/CD)

Explore the **Benefits of CI/CD to Achieve, Build, and
Deploy Automation for Cloud-Based Software
Products**

Introduction

- **Continuous integration (CI)** is a software development process where teams integrate code early and often into a central repository where they can run frequent tests and validate changes.
- The goal is to speed up the release process by enabling teams to identify and fix problems early in the development lifecycle.
- **Continuous Delivery (CD)** is the practice of getting all updates, fixes, features, and configuration changes either into production or into the hands of end-users as quickly (and safely) as possible.
- The goal is to streamline the delivery/deployment process so that predictable tasks can be performed on-demand

Benefits of CI/CD

- CI/CD enables organizations to respond to consumer needs as they evolve and allows businesses to ensure customers receive a seamless experience and uninterrupted service
- CI/CD plays a crucial role in bringing Products to Market Faster
- CI/CD automation can eliminate manual tasks, prevent coding errors, detect problems before deployment, allowing teams to work faster without compromising quality.
- CI/CD enables benefits like scalability, elasticity, improved performance characteristic of cloud-native applications.
- CI/CD also brings real-time visibility into the development cycle.

Business Impact

- The first metric of value in determining the ROI of CI/CD pipelines is ensuring that the implementation has cut the risk and cost of IT failure with higher-quality code and highly functional products and systems.
- By automating and optimizing provisioning and testing workflows, Udapeople should begin almost immediately to be able to reduce errors and lower costs.
- Less infrastructure costs from unused resources
- New value-generating features released more quickly
- Detect Security Vulnerabilities avoids extra cost to business

Thank you!

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