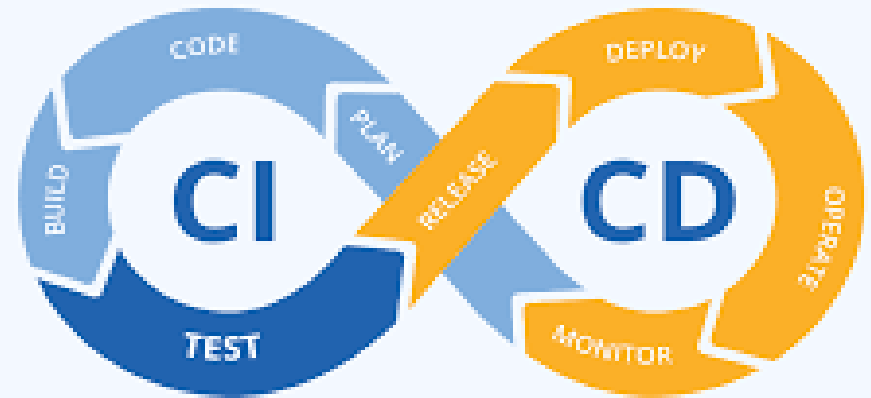# Benefits of CI/CD Implementation

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Introduction

CI/CD stand for continuous integration and continuous delivery/continuous deployment. In very simple terms, 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.

Why CI/CD

- CI/CD allows organizations to ship software quickly and efficiently.

- CI/CD facilitates an effective process for getting products to market faster than ever before.

- CI/CD reduce risks

- CI/CD minimize human error

- CI/CD maintain a consistent process for how software is released

C2 General

CI/CD Business Impact
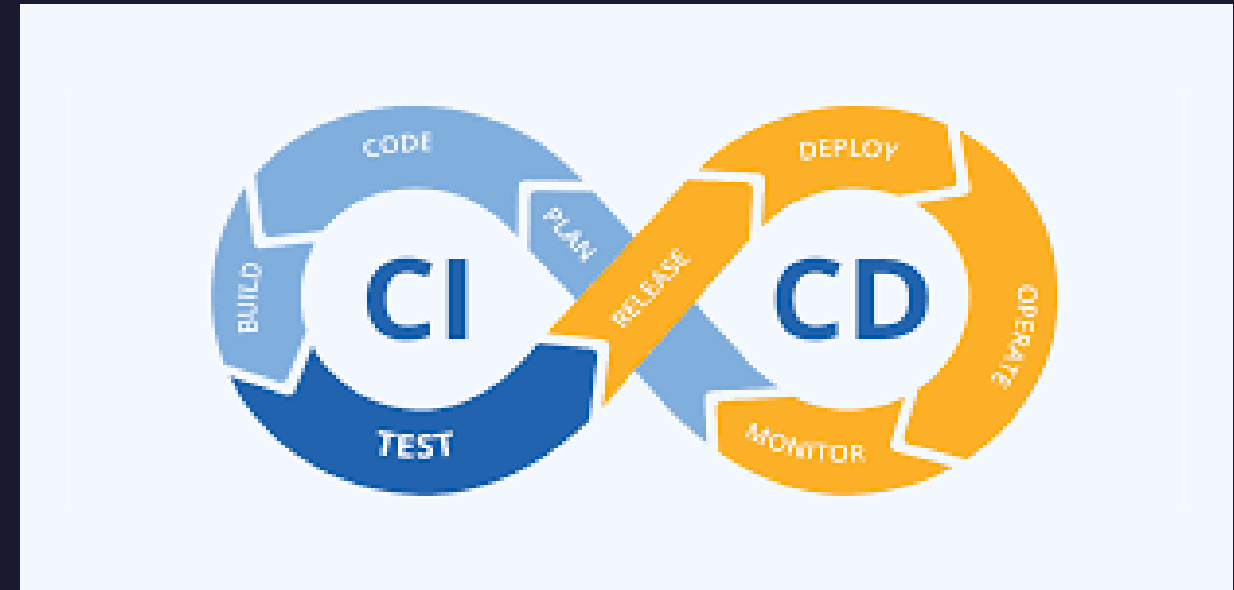
- ## Superior Quality Code

  - Teams collaborate to identify critical bugs, which ensures that bad code does not make it to production. T

  - CI/CD implementation drives business growth by providing high-quality releases that have fewer errors and bugs.

- ## Accelerated Release Cycles

  - CI/CD always keeps the code in a release-ready state as changing code frequently is more of a routine now in modern software development.

- ## Loyal Customer Base

  - A stable operating environment and faster resolution to production requirements enable you to cement customer loyalty and create great experiences.

C2 General

CI/CD Business Impact

- ## Detection & Isolation

  - limiting potential breakdowns and other critical issues by isolating bugs and vulnerabilities before they damage the entire application.

- ## Easy Maintenance & Updates

  - Catching bugs in the early stages of deployment helps you fix the bugs promptly without any delay in shipping the build.

  - While testing takes place in the background, developers can save a lot of time, which enhances productivity.

- ## Cost Deduction

  - Embracing CI/CD is the perfect fix to shorten the time to finish a project and market new features. The shorter the development cycle, the higher the chances are to meet ambitious time-to-market goals.