CI/CD Benefits

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Overview

Some of the core principles

CI
- Compile
- Unit Test
- Static Analysis
- Dependency vulnerability testing
- Store artifact

Continuous Integration (CD):
- Compile
- Unit Test
- Static Analysis
- Dependency vulnerability testing
- Store artifact

Continuous Delivery:
An engineering practice in which teams produce and release value in short cycles. This happens by achieving CI/CD technology

Benefit

Details of the benefits from both points of views lists below:

Technical	Benefit	Business
Compile Error	Reduce Costs	Less developer time on making code
Unit Test Failure	Less Cost	Avoid cost of security holes
Security Vulnerability	Less Cost	Less human error
Automate Infra Creation	Less Cost	Less cost of unused hardware
Faster Production Code Release	Increase revenue	New feature release more quickly
Go live without manual push	Increase revenue	Faster time on market
Automated smoke test	Save revenue	Reduce downtime
Automate rollback	Save revenue	Faster recovery from failure

Summary

The CI/CD will enable development teams to release new codes rapidly and effectively by:

- Ensure Code Quality.

- Reduced Change Time.

- Faster Release Cycle.

- Fault Detection & Recovery.

- Increase Test Cycle.

- Less Backlog.

- Improve Mean Time To Resolution.

- Improve Transparency.

- Frequent Update & Maintenance.

- Increase Monitoring Metrics.

- Raise Customer Satisfaction Level.