

A decorative background featuring a network diagram with nodes and lines. The nodes are represented by small circles, some of which are highlighted with a blue outline. The lines are thin and gray, connecting the nodes in a complex, web-like pattern. The overall aesthetic is clean and modern, with a focus on connectivity and technology.

Fundamentals and Benefits of CI/CD to Achieve, Build, and Deploy Automation for Cloud-Based Software Product



Introduction

CI/CD is the process of frequently deliver apps to customers by introducing automation into the stages of app development.

CI/CD comprises of continuous integration, continuous deployment and continuous delivery.

I'll be highlighting the benefits of CI/CD and how it can impact our revenue and costs in the next slides

Deploy to Production Without Manual Checks

CI/CD helps us to automate deployment process. It reduces manual deployment which is not void of error.

The financial implication means less time to market which in turn increase the company's revenue.



Detect Security Vulnerabilities

CI/CD helps us to detect security vulnerabilities and respond to it fast.

It helps us a company to avoid costs and reduced revenue because of security breaches

Automated Smoke Tests

Smoke tests is a software testing process performed post software build to determine if the main functionalities of the app/deployment works fine

This reduce or prevent the downtime from a deployed-related crash or bug and less time to debug which will impact cost

Automated Rollback Triggered by Job Failure

CI/CD helps to automate rollback when the production is down or unhealthy.

This actually protect revenue of the company because it'll quickly undo the latest changes to return the production App to a working state.