Fundamentals & Benefits of CI/CD

Achieving Build and Deploy Automation for Cloud-Based Software Products

Benefits of CI/CD!

Creates Revenue   Delivering more value to new or existing customers faster

Protects Revenue   By sustaining current value being delivered to users

Controls Costs   Improvements that help us avoid costs that we may incur in the future

Reduces Costs   Puts in place measures that help reduce our current cost base

Creates Revenue

Listed below are technical benefits of CI/CD that have the value of creating revenue.

1. Faster and More Frequent Production Deployments means: New value-generating features are released more quickly.

2. Deploying to Production Without Manual Checks means: Less time to market

Protects Revenue

Listed below are technical benefits of CI/CD that have the value of protecting revenue.

- Automated Smoke Tests mean: Reduced downtime from deploy-related crashes or major bugs.
- Automated Rollbacks Triggered by Job Failure mean: Quick undos to return production to working state

Controlling Costs

Listed below are technical benefits of CI/CD that have the value of controlling costs.

- Catching Unit Test Failures means: Less bugs in production and less time in testing

- Detect Security Vulnerabilities means: We prevent embarrassing or costly security holes

- Automate Infrastructure Creation means: Less human error and Faster deployments

Reduce Costs

Listed below are technical benefits of CI/CD that have the value of reducing costs.

1. Catching Compile Errors After Merge means: Less developer time on issues from new developer code
2. Automating Infrastructure Cleanup means: Less infrastructure costs from unused resources