BENEFITS OF CI/CD

HOW CAN CI/CD BENEFIT THE COMPANY AND TRANSITION OUR WORKFLOW TO BEING LOW-COST AND AUTOMATED

CI/CD FOUR MAIN BENEFITS AS PER THE VALUE FRAMEWORK:

1. Reduce Cost

2. Avoid Cost

3. Increase Revenue

4. Protect Revenue

EXAMPLES OF HOW CI/CD CAN REDUCE COSTS:

- Catch Compile Errors After Merge ➡ • Less developer time on issues from new developer code

- Automate Infrastructure Cleanup ➡ • Less infrastructure costs from unused resources

- Breaking the software update process up into smaller chunks ➡ • **Lower device management costs**

EXAMPLES OF HOW CI/CD CAN AVOID COSTS:

- Catch Unit Test Failures ➡ Less bugs in production and less time in testing

- Detect Security Vulnerabilities ➡ Prevent embarrassing or costly security holes

- Automate Infrastructure Creation ➡ Less human error, Faster deployments

EXAMPLES OF HOW CI/CD CAN INCREASE REVENUE:

- Faster and More Frequent Production Deployments

  ➡ New value-generating features released more quickly

- Deploy to Production Without Manual Checks

  ➡ Less time to market

- Enables organizations to respond to consumer needs as they evolve

  ➡ Early feedback and usability issues can be addressed without refactors to change the direction later on

EXAMPLES OF HOW CI/CD CAN PROTECT REVENUE:

- Automated Smoke Tests

➤ - Reduced downtime from a deploy-related crash or major bug

- Automated Rollback Triggered by Job Failure

➤ - Quick undo to return production to working state

- Supports customer outcomes from a technical standpoint.

➤ - Play a major role in customer satisfaction and long-term loyalty