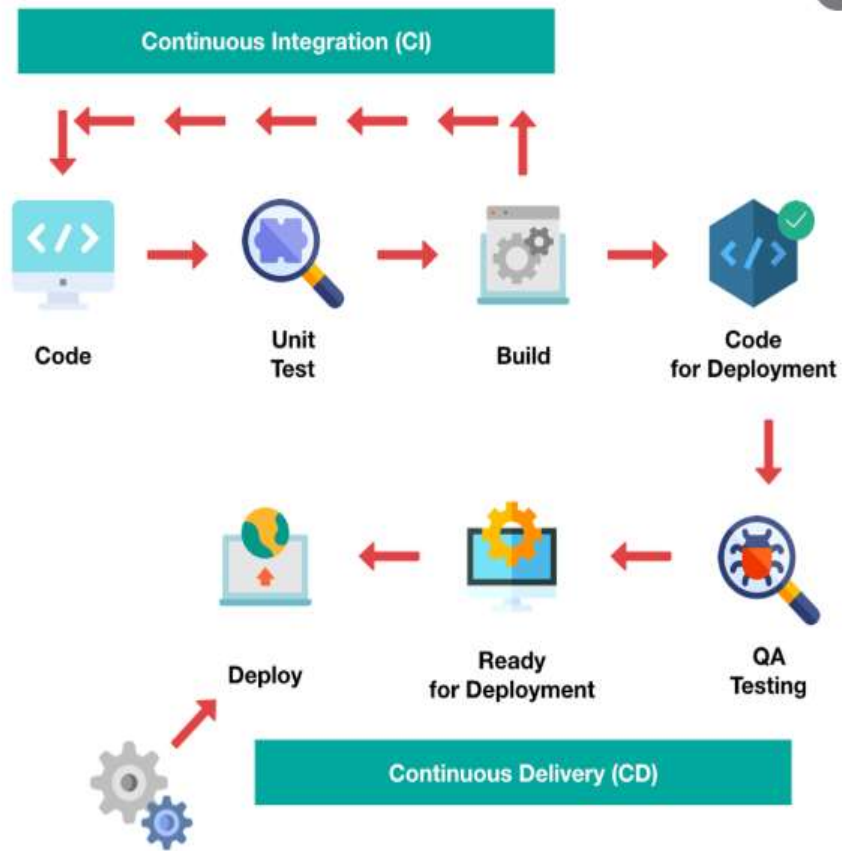# Business case for CI/CD

MUSA MUAWIYYA MODIBBO

What is CI/CD

CONTINUOUS INTEGRATION - IS THE PROCESS BY WHICH EVERY TIME A DEVELOPER ON THE TEAM CHECKS IN NEW CODE, AUTOMATED BUILDS AND TESTS RUN. THIS IS THE FIRST STEP IN A SERIES OF QUICKER FEEDBACK LOOPS THAT CAN HELP NOTIFY THE DEVELOPER OF ISSUES WITH THEIR CODE, SO THEY CAN MAKE CHANGES FASTER AND CONTINUE FOCUSING THEIR TIME ON WHAT MATTERS.

CONTINUOUS DELIVERY - IS THE PROCESS BY WHICH EVERY TIME A DEVELOPER ON THE TEAM CHECKS IN NEW CODE, AUTOMATED BUILDS AND TESTS RUN. THIS IS THE FIRST STEP IN A SERIES OF QUICKER FEEDBACK LOOPS THAT CAN HELP NOTIFY THE DEVELOPER OF ISSUES WITH THEIR CODE, SO THEY CAN MAKE CHANGES FASTER AND CONTINUE FOCUSING THEIR TIME ON WHAT MATTERS.

CONTINUOUS DEPLOYMENT -A SOFTWARE ENGINEERING APPROACH IN WHICH THE VALUE IS DELIVERED FREQUENTLY THROUGH AUTOMATED DEPLOYMENTS. EVERYTHING RELATED TO DEPLOYING THE ARTIFACT FITS HERE. IT'S THE PROCESS OF **"MOVING"** THE ARTIFACT FROM THE SHELF TO THE SPOTLIGHT. SOME COMMON CD-RELATED PHASES MIGHT INCLUDE:

Benefits of CICD

Engineering and Business don't always speak the same language
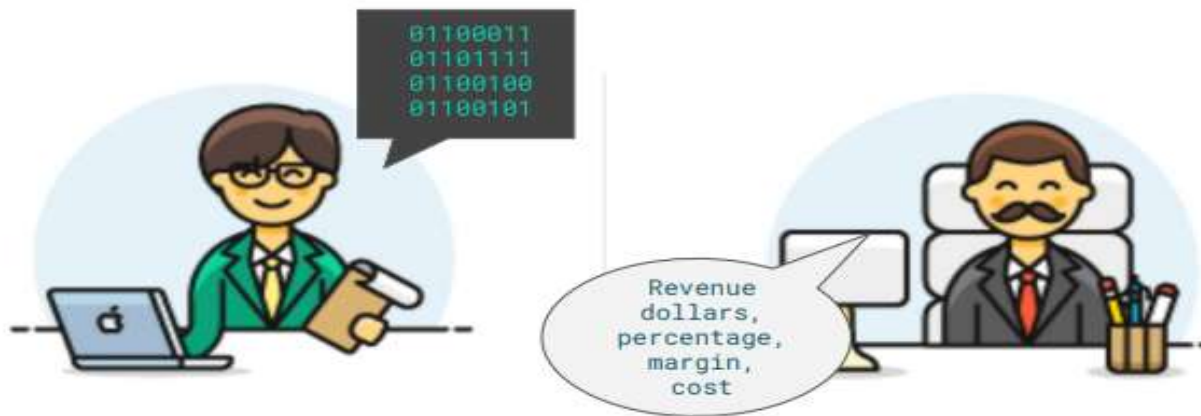
Benefits of CICD

Technical Language	Value	Translation
Faster and More Frequent Production Deployments	Increase Revenue	New value-generating features released more quickly
Automated Smoke Tests	Protect Revenue	Reduced downtime from a deploy-related crash or major bug
Catch Unit Test Failures	Avoid Cost	Less bugs in production and less time in testing
Catch Compile Errors After Merge	Reduce Cost	Less developer time on issues from new developer code
Automated Rollback Triggered by Job Failure	Protect Revenue	Quick undo to return production to working state
Detect Security Vulnerabilities	Avoid Cost	Prevent embarrassing or costly security holes

THANK YOU FOR YOUR TIME