



# **AWS CLOUD DEVOPS UDACITY NANODEGREE CI/CD 2022-2023**

**AHMED ALSAWI**

# CONTENT

1. Benefits of CI/CD.
2. Business context that will benefit from the automation tools.
3. Translations of CI/CD benefits in terms of Revenue and Cost for the business.



Continuous  
Integration and  
Continuous  
Deployment

Building a  
Continuous  
Integration  
Pipeline

Enabling  
Continuous Delivery  
with Deployment  
Pipelines

Monitoring  
Environments

## BENEFITS OF CI/CD.

WHAT WILL I GAIN WHEN I HAVE CD?

- AUTOMATED DEPLOYMENTS TO QA, STAGING, PROD.
- MORE TIME TO DEVELOP FEATURES.
- GENERATE MORE CONFIDENCE AMONGST STAKEHOLDERS.

IN ORDER TO TRANSLATE TECHNICAL BENEFITS  
T TO BUSINESS BENEFITS , WE NEED TO THINK  
OF VALUES



*Reduce Cost*



*Avoid Cost*



*Increase Revenue*



*Protect Revenue*

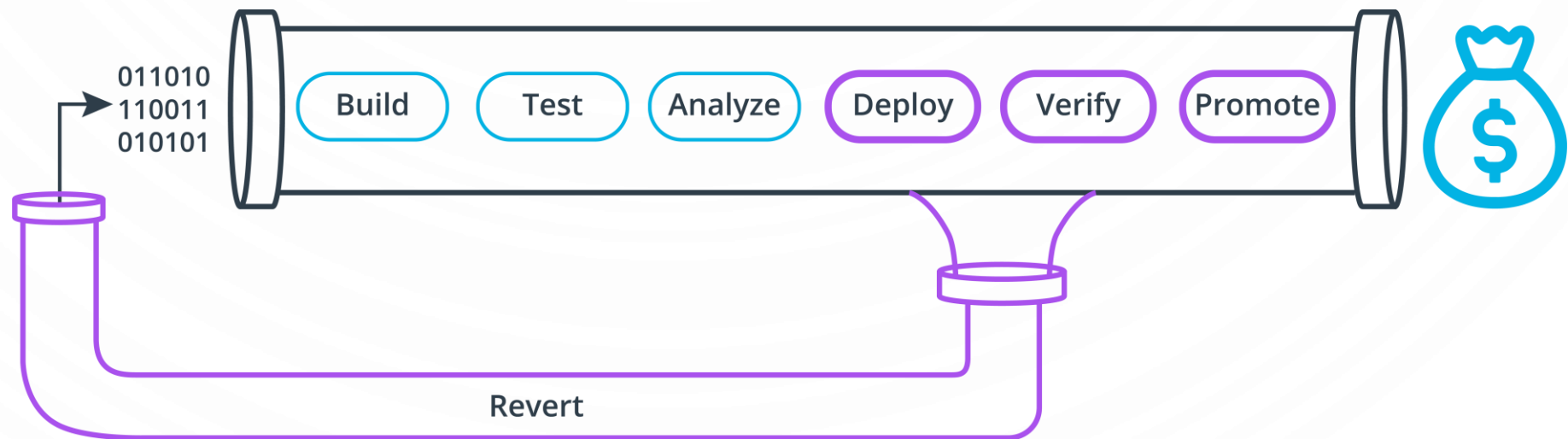
## BUSINESS CONTEXT THAT WILL BENEFIT FROM THE AUTOMATION TOOLS.

### WHAT WILL I NEED TO ADD CD?

- BUY IN FROM DECISION-MAKERS.
- AUTOMATION SKILLS, WHICH YOU ARE LEARNING IN THIS COURSE.
- ACCESS TO SERVERS OR CLOUD RESOURCES.
- TIME TO BUILD AUTOMATION.

### WHAT WILL I LOSE WHEN I ADD CD?

- THE ABILITY TO TINKER WITH THE SERVERS MANUALLY.
- THE OPAQUE WALL OF SECRECY AROUND ONE DEV'S WAY OF DEPLOYING.
- FREE PIZZA FROM THE DEPLOYMENT ALL-NIGHTERS.



# TRANSLATIONS OF CI/CD BENEFITS IN TERMS OF REVENUE AND COST FOR THE BUSINESS.

## TECHNICAL LANGUAGE

CATCH COMPILE  
ERRORS AFTER MERGE.

FASTER AND MORE  
DEPLOYMENT  
PRODUCTIONS

AUTOMATED SMOKE  
TEST

## VALUE



*Reduce Cost*



*Increase Revenue*



*Protect Revenue*

## TRANSLATION

LESS TIME SPENT ON  
ISSUES

GENERATION  
FEATURES RELEASED  
MORE QUICKLY

REDUCED DOWNTIME  
FROM A DEPLOY-  
RELATED CRASH / BUG

TRANSLATIONS OF CI/CD BENEFITS IN TERMS OF REVENUE AND COST FOR THE BUSINESS.

TECHNICAL LANGUAGE

VALUE

TRANSLATION

DETECT SECURITY  
VULNERABILITIES

PREVENT COSTLY  
SECURITY HOLES

AUTOMATE  
INFRASTRUCTURE  
CREATION

LESS HUMAN ERRORS,  
FASTER DEPLOYMENTS

CATCH UNIT TESTS  
FAILURE

LESS BUGS IN  
PRODUCTION AND  
TESTING



*Avoid Cost*