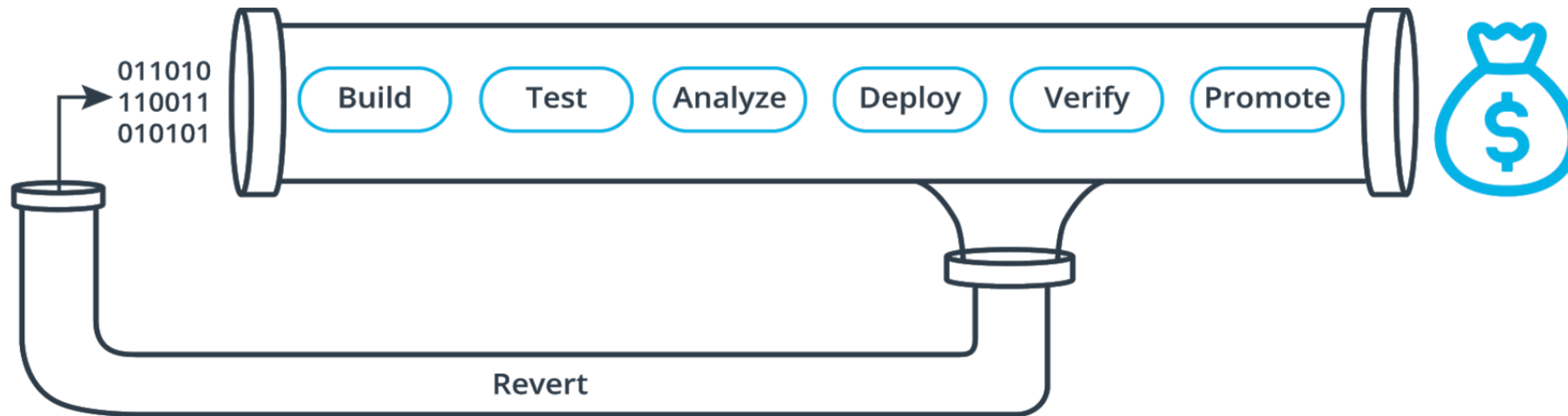# Benefits of CI/CD

PRESENTATION BY:

BALOGUN-SALIU TOYEEB

WHAT IS CI/CD?

The CI/CD Pipeline

WHAT IS CI/CD? (Contd.)

- CONTINUOUS INTEGRATION: THIS IS THE PROCESS AND PRACTICE OF MERGING ALL THE INDIVIDUAL WORKS OF VARIOUS DEVELOPERS INTO A SHARED MAINLINE MULTIPLE TIMES A DAY.

- CONTINUOUS DEPLOYMENT: THIS IS THE PROCESS OF RELEASING VALUE THROUGH AUTOMATED DEPLOYMENT FREQUENTLY.

- CONTINUOUS DELIVERY: THIS THE PRACTICE OF TEAMS PRODUCING AND RELEASING VALUE IN SHORT CYCLES.

WHY CI/CD?

- WE CATCH COMPILE ERRORS MERGES WHICH LEADS TO LESS DEVELOPER TIME ON ISSUES FROM NEW DEVELOPER CODE.

- WE CATCH UNIT TEST FAILURES WHICH HELPS TO REDUCE BUGS IN PRODUCTION AND ALSO TIME SPENT ON TESTING.

- WE ARE ABLE TO DEPLOY TO PRODUCTION WITHOUT MANUAL CHECKS WHICH LEADS TO LESS TIME FROM DEVELOPMENT TO MARKET.

- AUTOMATED SMOKE TESTS HELPS TO REDUCE DOWNTIME FROM A DEPLOY-RELATED CRASH OR MAJOR BUG.

ALL OF THESE LEAD TO SAVING COST AND DELIVERING HIGH VALUE TO CUSTOMERS.