# Fundamentals & Benefits of CI/CD

What is CI/CD ? (Continuous Integration & Continuous Delivery)

- **CI** is the practice of merging developers changes to the main branch by building, testing and analyzing the code.

- **CD** is an extension of CI since it automatically deploy all code changes to a testing and/or production environment after the build stage
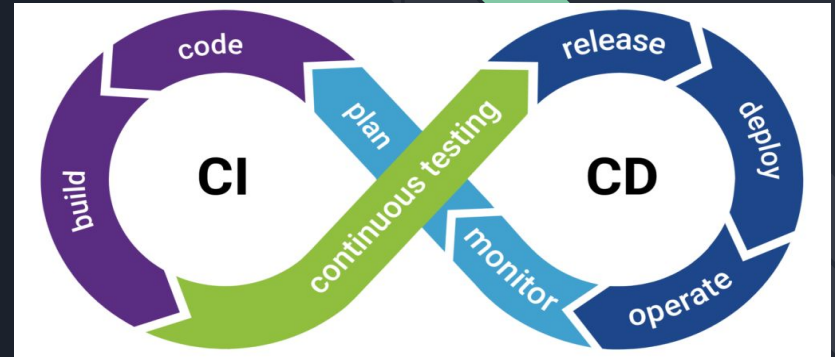
Benefits of CI/CD

- Reduce costs by decreasing developer time on issues from new developer code

- Avoid costs by allowing less bugs in production and reduce testing time

- Less human error and faster deployment reduce the costs of manual deployment.
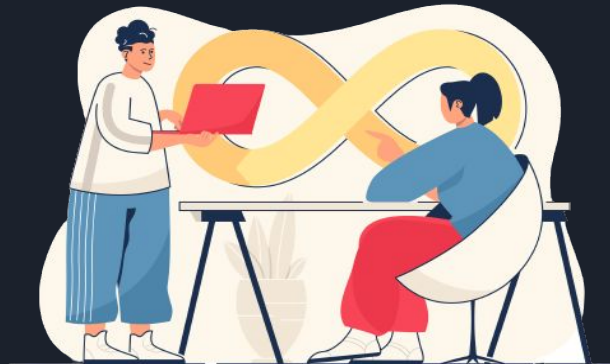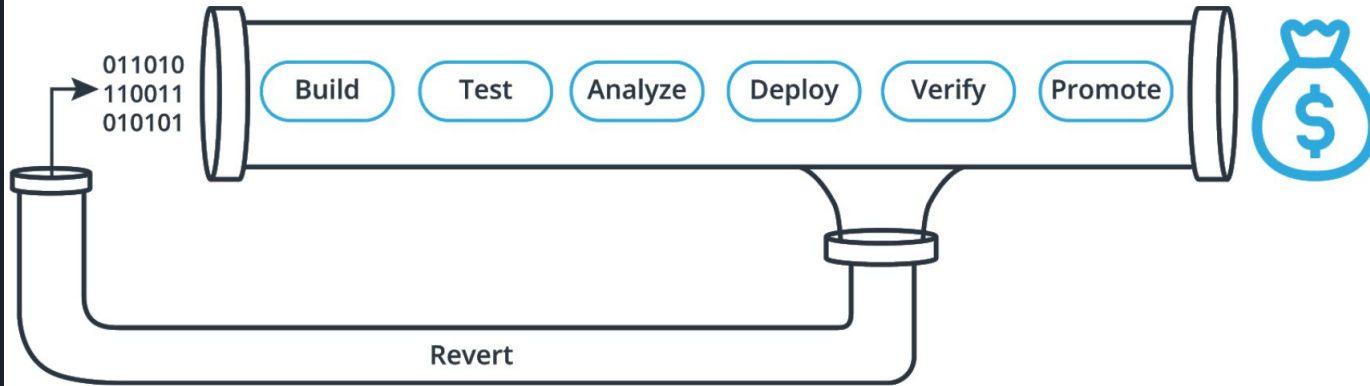
Benefits of CI/CD

- Protect company revenue by reducing downtime due to a deploy-related crash or bugs.

- Increase revenue by releasing new value-generating features to the market more frequently and quickly.

The CI/CD Pipeline

Thank you !