

The background is a dark navy blue. On the left, there is a large, semi-transparent circular graphic containing a detailed image of a printed circuit board (PCB) with various electronic components. Overlaid on the top left of this circle are two overlapping triangles: a blue one in the foreground and a light green one behind it. In the top right corner, there is a faint, light gray 3D graphic of a circuit board layout. The main title is centered on the right side of the image.

# CONTINUOUS INTEGRATION CONTINUOUS DEPLOYMENT

The best tool for your business delivery.

# OUTLINE

CI/CD Overview

Objectives

CI/CD flow

Problem and Solution

Benefits

Conclusion





# Overview

Continuous integration, delivery and deployment is a method used in delivering working, reliable and trustworthy products to customers in a cost efficient way by applying automation into the different stages of deployment.

CI/CD provides solutions to problems that may arise due to the integration of new code by ensuring that all applications delivered to customers has gone through the process of scanning, testing, and sanity checks.



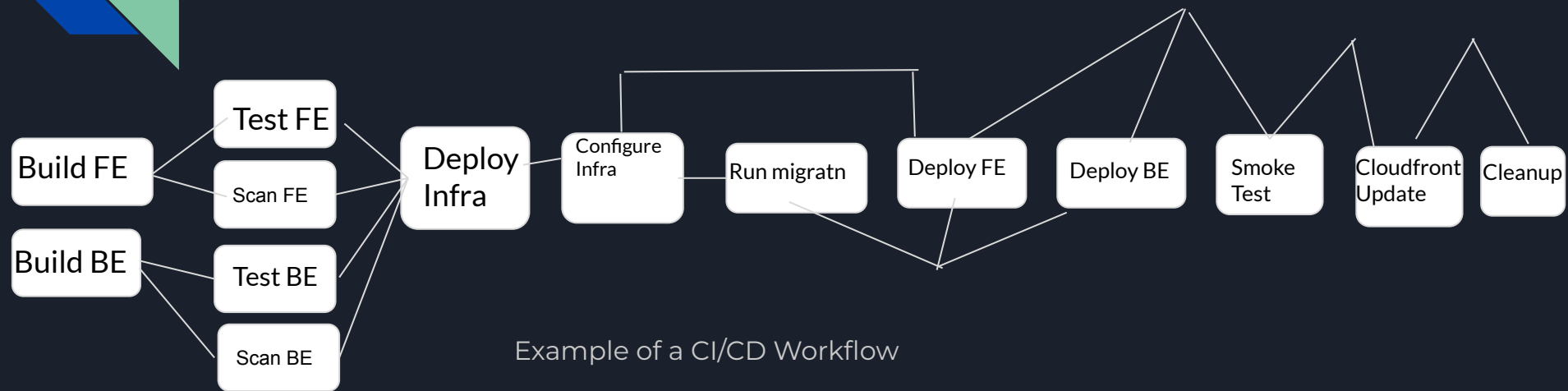
# Benefits of CI/CD

CI/CD has a lot of benefits to any organization adopting it. Below are the benefits that can be achieved when ci/cd is adopted, such as:

- Ability to deploy faster with less human intervention which in turn helps to avoid cost
- Helps in releasing new highly valuable features quickly which in turn increases revenue
- Ability to return production to working state which helps in the protection of revenue.
- It reduces the bugs that are shipped to production as they are captured early by the test stage which in turn saves the teams from wasting time unnecessarily and save the organization from spending or losing customers.



# CI/CD Workflow



Example of a CI/CD Workflow

The chart above shows a typical workflow of jobs from the building phase to deploying to production. This shows the reliability of product deployed to production, having gone through series of scanning, testing and sanity checks.



# Some tools that can be used to achieve CI/CD

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- CircleCI
  - Spinnaker
  - Jenkins
  - ArgoCD
  - Gitlab CI/CD
  - Travis CI
  - Atlassian Bamboo

e.t.c

# Conclusion

Leveraging on the importance of CI/CD by organizations will increase inflow of revenue to a larger extent and also reduces cost and time wastage

