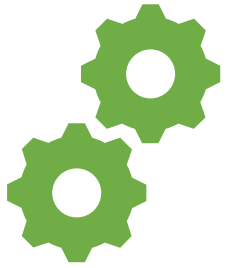


The background of the slide features a close-up, artistic shot of a vinyl record. The record is dark, with a prominent red center. A blue cable, likely a turntable cable, is visible on the right side, extending from the bottom right towards the center. The text is overlaid on the red center of the record.

# What is CI/CD?

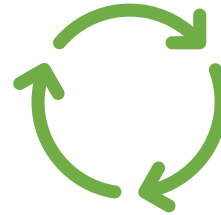
Mostafa Wael

# Definitions



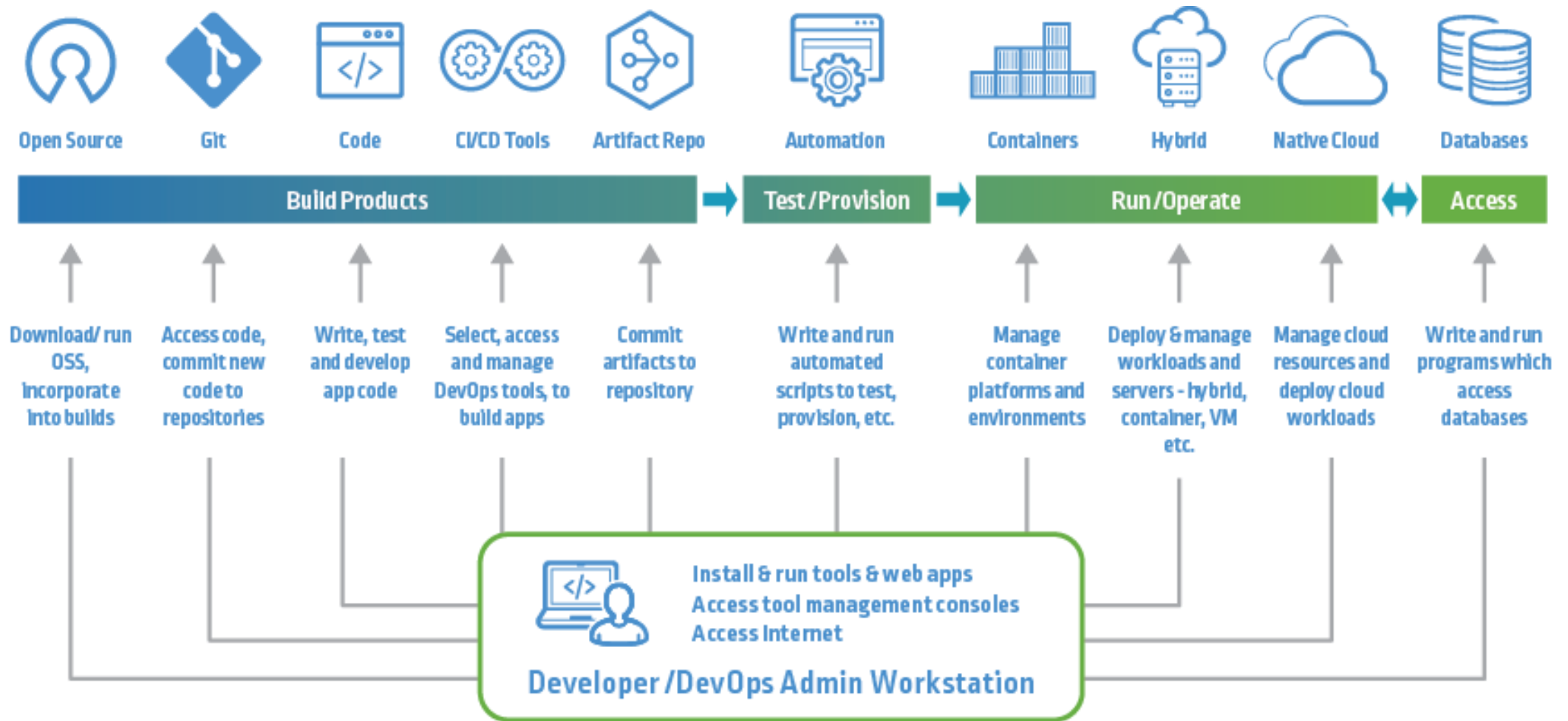
## **Continues Integration:**

It refers to the build and unit testing stages of the software release process. Every revision that is committed triggers an automated build and test. With continuous delivery, code changes are automatically built, tested, and prepared for a release to production.



## **Continues Delivery:**

It is the process of automating build, test, configuration, and deployment from a build to a production environment. A release pipeline can create multiple testing or staging environments to automate infrastructure creation and deploy new builds.



# Pipeline

# What are the benefits of CI/CD?



Catch errors after  
merge

Reduce cost.



Catch unit test failures

Avoid cost.



Avoid security  
vulnerabilities

Avoid cost due to  
security holes.



Automate  
infrastructure creation

Avoid cost due to  
human errors.

# What are the benefits of CI/CD?

## Automate smoke tests

- Protect revenue.

## Automate rollback triggered by job failure

- Protect revenue.

## Automate infrastructure cleanup

- Reduce cost due to unused resources.

## Faster deployment on production

- Increase revenue.

## Deploy to production without manual checks

- Increase revenue due to the decrease of time to market.