

# CI/CD

- ❑ What is the cloud?
- ❑ What is CI/CD?
- ❑ Benefits of CI/CD on Cloud?



## What is the cloud?

- ★ Amazon Web Services (AWS) is the world's most comprehensive and broadly adopted cloud platform, offering over 175 fully featured services from data centers globally.
- 

- ★ Benefits of using AWS is we avoid the headache of maintains the data center
- ★ Also we can pay as we go and we can scale out or shrink easily
- ★ We pay only for servers or services which we need

## What is CI/CD?

- ★ Continuous integration (CI) and continuous delivery (CD) embody a culture, set of operating principles, and collection of practices that enable application development teams to deliver code changes more frequently and reliably.
- ★ Continuous integration and continuous delivery require continuous testing because the objective is to deliver quality applications and code to users



## Benefits of CI/CD on Cloud

- ★ Smaller code changes are simpler (more atomic) and have fewer unintended consequences.
- 
- ★ Fault isolation is simpler and quicker.
  - ★ Mean time to resolution (MTTR) is shorter because of the smaller code changes and quicker fault isolation.
  - ★ Testability improves due to smaller, specific changes.
  - These smaller changes allow more accurate positive and negative tests.

## Benefits of CI/CD on Cloud

- ★ Elapsed time to detect and correct production escapes is shorter with a faster rate of release.

---
- ★ The backlog of non-critical defects is lower because defects are often fixed before other feature pressures arise.
- ★ The product improves rapidly through fast feature introduction and fast turn-around on feature changes.
- ★ Upgrades introduce smaller units of change and are less disruptive.

★



## Benefits of CI/CD on Cloud

- ★ CI-CD product feature velocity is high. The high velocity improves the time spent investigating and patching defects.
- 

- ★ Feature toggles and blue-green deploys enable seamless, targeted introduction of new production features.
- ★ You can introduce critical changes during non-critical (regional) hours. This non-critical hour change introduction limits the potential impact of a deployment problem.
- ★ Release cycles are shorter with targeted releases and this blocks fewer features that aren't ready for release.

# WHY CI/CD ?

Action	Value
Generating features release more quickly	Increase Revenue
Less Time to Market	Increase Revenue
Less Human error Faster Deployment	Cost Avoidance
Quick undo to return Production to Working State	Protect Revenue



# Thanks

Adesoba Adewale Olamide

---