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 easly

★ 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.

Thanks

Adesoba Adewale Olamide