

UDAPeople

CI/CD APPROACH

CI/CD is a method to frequently deliver apps to customers by introducing automation into the stages of app development. The main concepts attributed to CI/CD are continuous integration, continuous delivery, and continuous deployment

CI/CD PIPELINE

A pipeline is a process that drives software development through a path of building, testing, and deploying code, also known as CI/CD. By automating the process, the objective is to minimize human error and maintain a consistent process for how software is released. Tools that are included in the pipeline could include compiling code, unit tests, code analysis, security, and binaries creation. For containerized environments, this pipeline would also include packaging the code into a container image to be deployed across a hybrid cloud.

CI/CD is the backbone of a DevOps methodology, bringing developers and IT operations teams together to deploy software. As custom applications become key to how companies differentiate, the rate at which code can be released has become a competitive differentiator.

BENEFITS OF CI/CD

Reduced risk of defects and Faster product delivery

Log generation and Quick rollback if required.

Efficient testing & monitoring

Rapid feedback is an integral part of the CI/CD.

Avoid branching and merge code daily.

Automate the maximum number of tests possible and run multiple tests simultaneously.

Follow version management and simplify the code migration process.

Faster Mean Time to Resolution (MTTR)

Increase Team Transparency and Accountability and Reduce Costs

Easy Maintenance and Updates. Measurable Progress

CI/CD improves overall communication and accountability among team members.

Short Review Time with Continuous Integration, developers are encouraged to write and submit their code more often.

Measurable Progress Another best advantage of CI/CD

Maximum Productivity. CI/CD pipeline eliminates communication gaps.