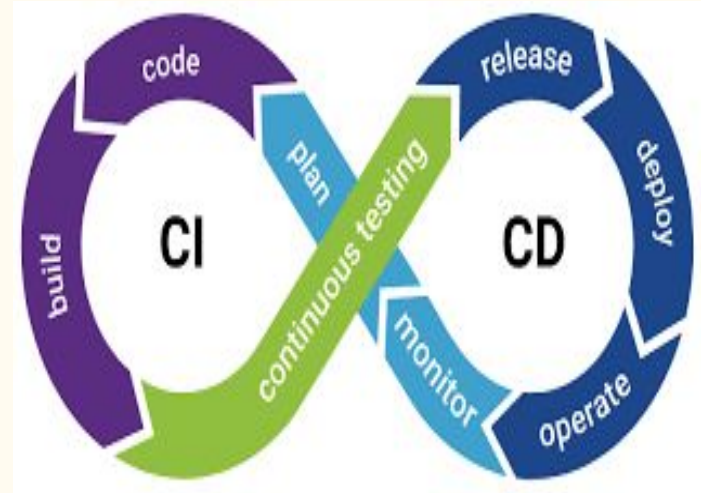# UDAPEOPLE CICD PRESENTATION

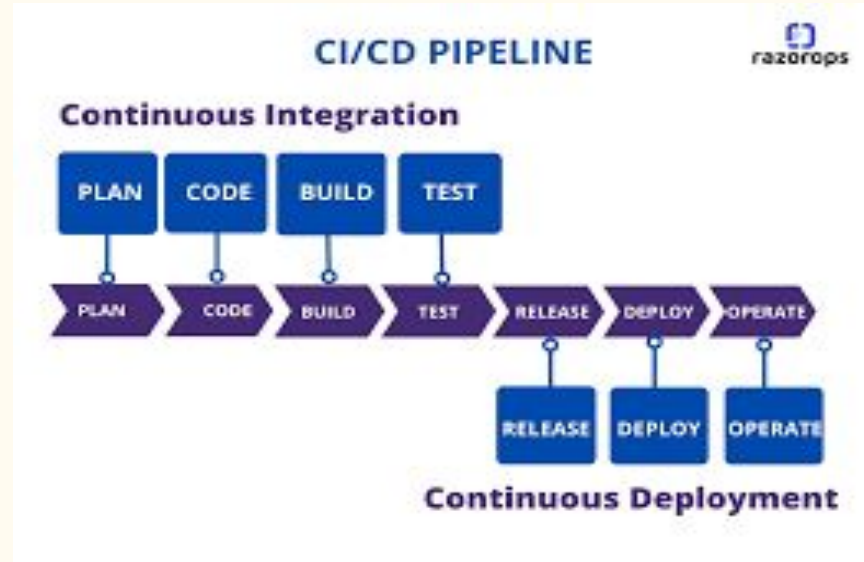CHUKWUMA DANIEL

What is CICD?

CICD stands for continuous integration and continuous deployment.

CI/CD, creates a faster and more precise way of combining the work of different people into one cohesive product. In application development and operations (DevOps), CI/CD streamlines application coding, testing and deployment by giving teams a single repository for storing work and automation tools to consistently combine and test the code to ensure it works.

Procedure

1. Continuous Integration is the practice of automating the integration of code changes from multiple contributors into a single software project
2. Continuous Deployment is a software engineering approach in which the value is delivered frequently through automated deployments.

Some Benefits of CICD

Automate Infrastructure Creation: Avoid costs with less human involvement and error, leading to faster deployments

Faster and More Frequent Production Deployments: New value-generating features released more quickly; hence increases revenue

Catch Compile Errors After Merge: Less developer time on issues from new developer code; reduce cost and human involvement.

Conclusion

A continuous integration and continuous deployment (CI/CD) pipeline is a series of steps that must be performed in order to deliver a new version of software. CI/CD pipelines are a practice focused on improving software delivery throughout the software development life cycle via automation.

By automating CI/CD throughout development, testing, production, and monitoring phases of the software development lifecycle, organizations are able to develop higher quality code, faster. Although it's possible to manually execute each of the steps of a CI/CD pipeline, the true value of CI/CD pipelines is realized through automation.