CI/CD ADOPTION FOR UDAPEOPLE PROJECT

ACHIEVE, BUILD AND DEPLOY AUTOMATION

FUNDAMENTALS OF CI/CD

▶ **Continuous Integration**

This is a practice where developers integrate code into a central repository regularly. Each code check-in is verified by an automatic build, enabling teams to identify errors quickly.

▶ **Continuous Delivery**

With continuous Delivery, quality products are released frequently in an automated fashion.

▶ **Continuous Deployment**

Continuous deployment goes a step further than continuous delivery as it allows frequent automated deployments without any human intervention.

CI/CD Benefits

► With CI/CD, you can test and deploy code more frequently, giving testers the ability to detect issues early and fix them promptly.

► Quick and easy rollback of code changes if there are any issues after a release in the production.

► With a seamless CI/CD pipeline, teams can build, test, and deliver features automatically with minimal manual intervention.

► It provides an automated infrastructure cleanup which reduces cost from unused resources.

► Automated smoke test which reduces downtime from a major bug or deploy related crash issue

Tools used for this project:

- Cloud Provider: AWS
- Cloud Integration Pipeline: Circle CI
- IT Automation: Ansible
- Analytics and Metrics: Prometheus

THANK YOU