DEVOPS

Assignment – 1

1. What is CI / CD?

Continuous integration is when development teams implement small code changes and continuously merge their work to a shared repository. With continuous integration in place, code changes happen at a more frequent pace. The coding work is broken down into smaller parts, making it easier to spot bugs and issues before releasing to customers.

After CI, we move to continuous delivery. It's the natural next step after CI, as the changes made during CI need to be delivered to the customers or a sub-set of them. This is the staging and testing environment where the code is automatically reviewed for deployment readiness through tests, and where issues are flagged.

1. What are feature flags?

A feature flag is the ability to turn features of your application on/off at easily.A common use case for feature flags is to enable certain features on a per-user basis.

1. What is CI/CD pipeline?

CI/CD Pipeline is a continuous Automated Integration, [Continuous Testing](https://www.scriptworks.io/blog/continuous-testing/), Continuous Delivery, and Deployment process.

CI, at its core, is an automated process that checks your code into a version control system. This process runs automatically when you push new commits to the branch it's watching.

Continuous Delivery (CD) takes (CI)to the next level and reaches its goal: deploying applications quickly and reliably with high quality. The capability of continuous Delivery depends on several factors such as application size, type, number of tests required.

