DevOps Test

Please complete the following steps:

1. Create a hosted git repository account of your choice (if you do not already possess one

Github

2. Provide us with the account name

Samikh2020

3. Share the account and the details once complete

<https://github.com/samikh2020/River-safe-app>

4. Use the Repository and pick a CI/CD Tool of your choice and create a pipeline to

I used Python to create my simple Hello world application.

For this task I used Jenkins along with my github repository to create a CI pipeline for my python application. To create the Jenkins server I used a Docker container.

My pipeline works by using a github webhook to start a Jenkins job when there’s a new push to the developer branch. The job then tests the application. Once all the tests pass the application will move to the master branch.

I also attempted to used Azure DevOps to create the pipeline, along with Azure repos. However I struggled to pass along the tested code to the master branch.

d. Deploy the application to a Server (Bonus: Deployment of Application to multiple flavours - Windows/Linux)

For this I used Azure to create a linux and Microsoft server for me to test that my application will work.

e. Test the Deployment is successful

To check whether my my application worked, I manually SSH into the azure linux server and ran the application which I had sent over from my personal laptop.

5. Extra credits for building the application as a Container (docker image).

I create the dockerfile needed to create the containers which will be able to create the environment required and will run the code.