**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.