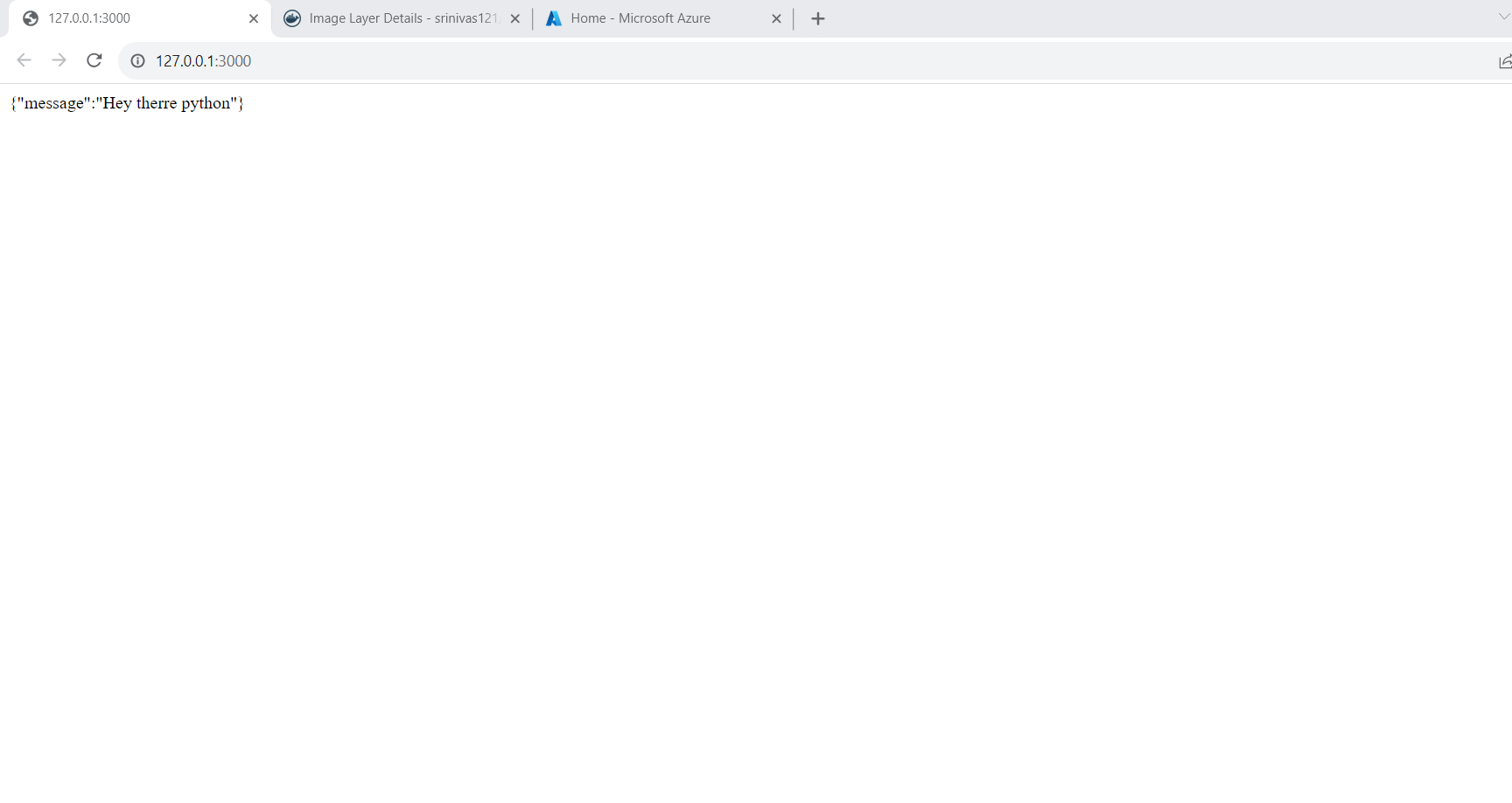
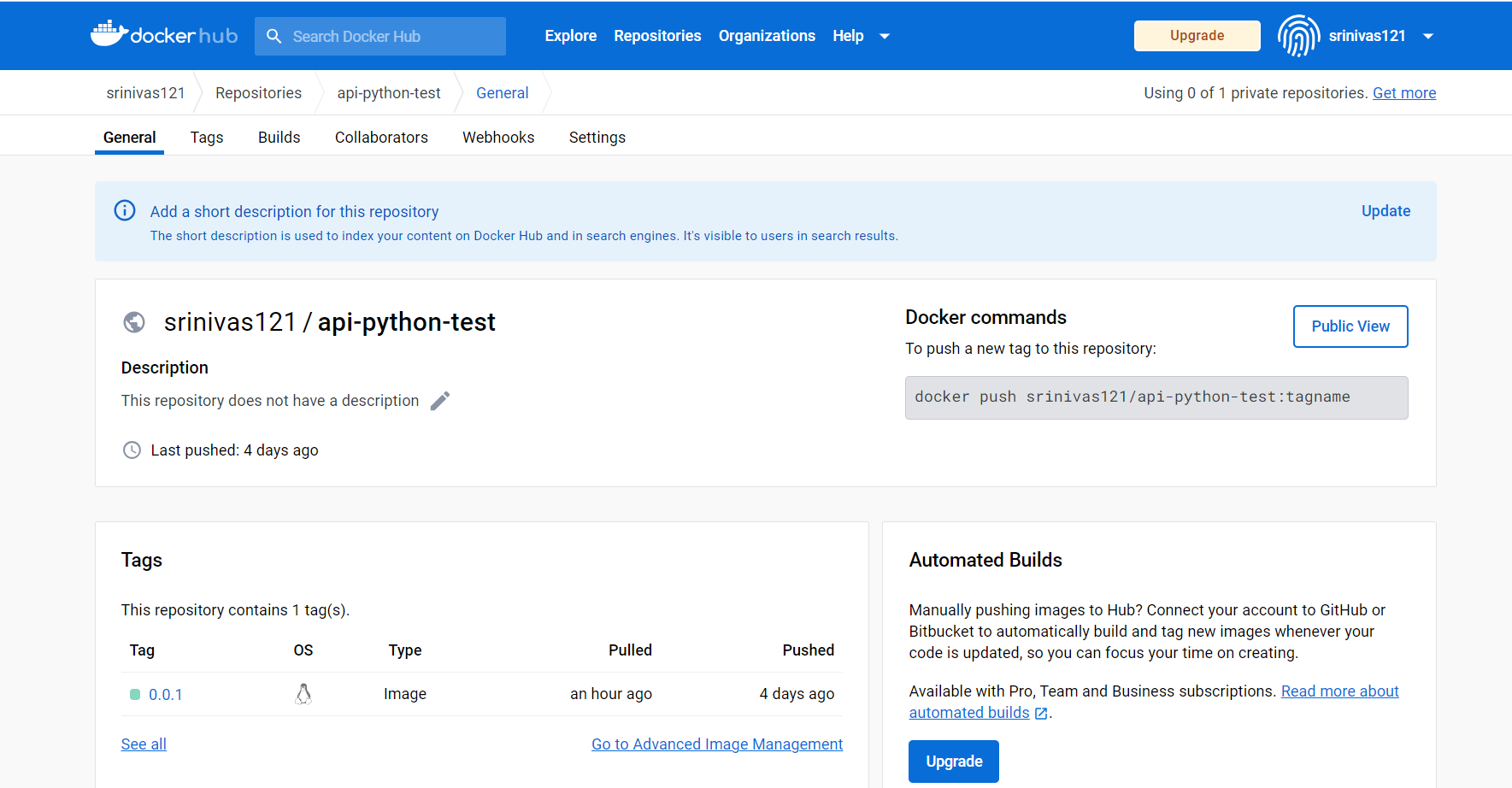
Created a crud api using Python Flask and ran it locally. Attached a screenshot of the result(**figure 1**)



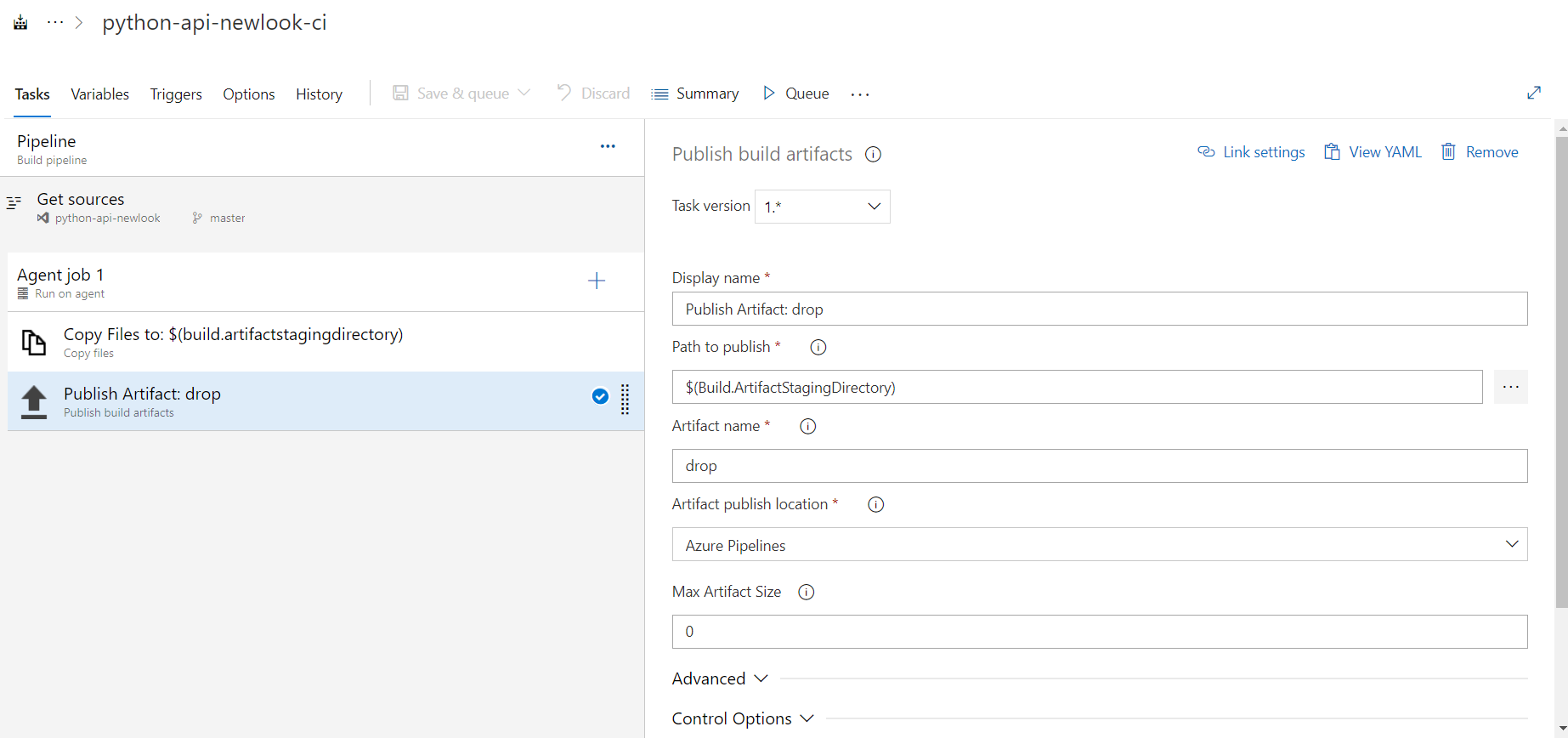
(Figure 1)

* Created a Docker file to build a Docker image, next pushed the docker image into the docker hub. Attached screenshot for reference(Figure 2)

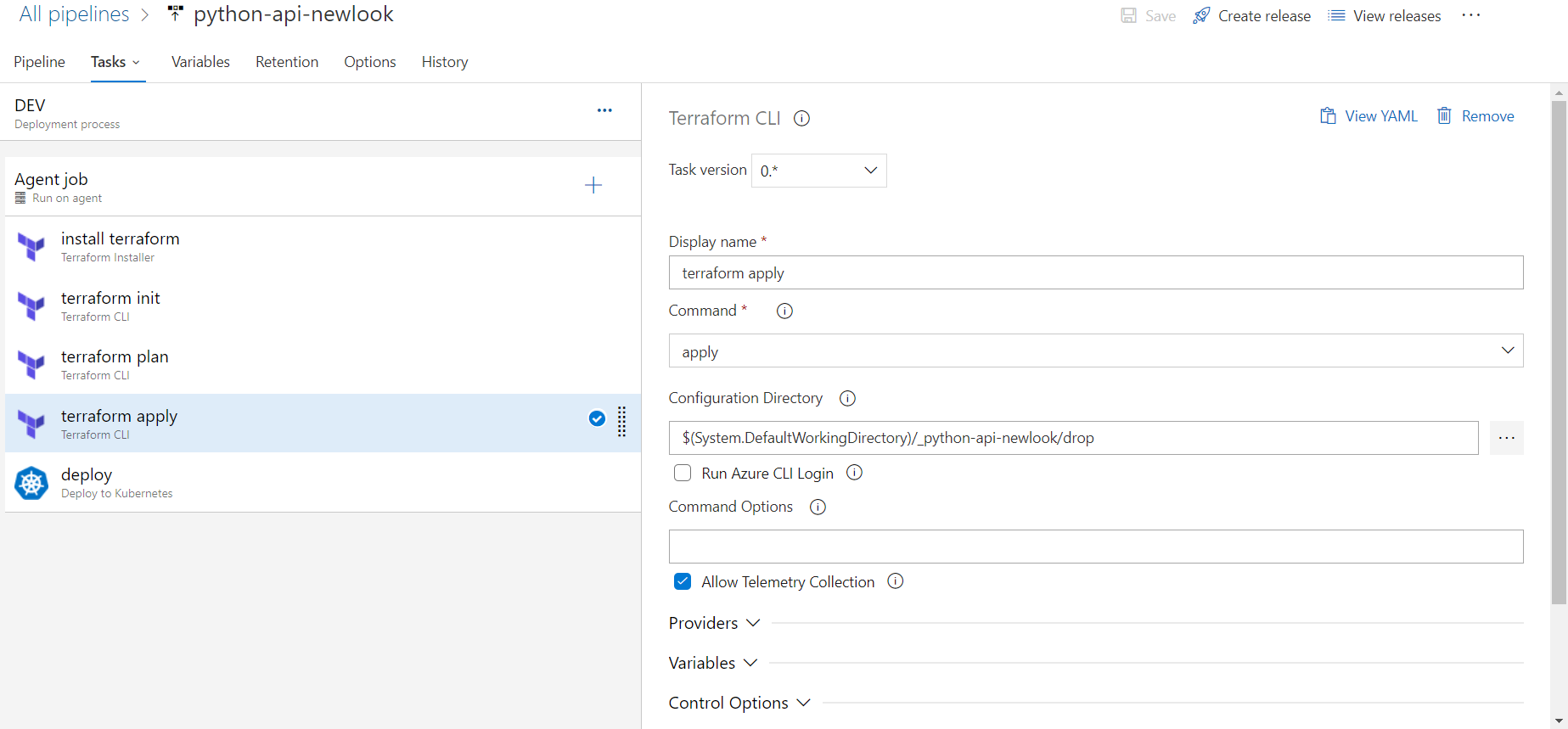


(Figure 2)

* Now added the required code to the infra folder to create Kubernetes cluster and Azure Container Registry.
* I used the Azure DevOps pipelines for CI and CD
* In Azure DevOps I used classic pipelines for CI and CD, attaching screenshots of the classic pipeline for CI (Figure 3) and CD (Figure 4)



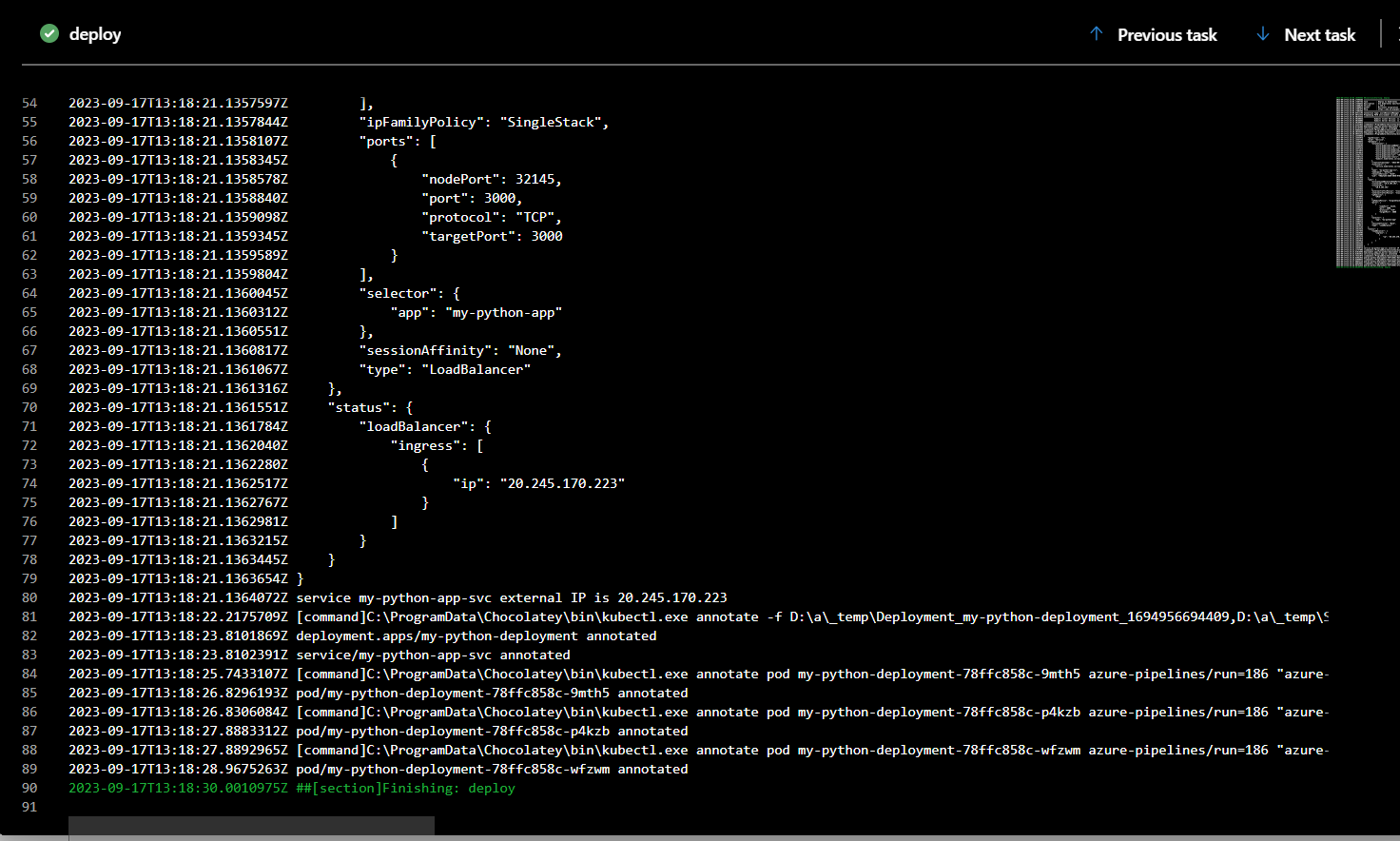
(Figure 3)



(Figure 4)

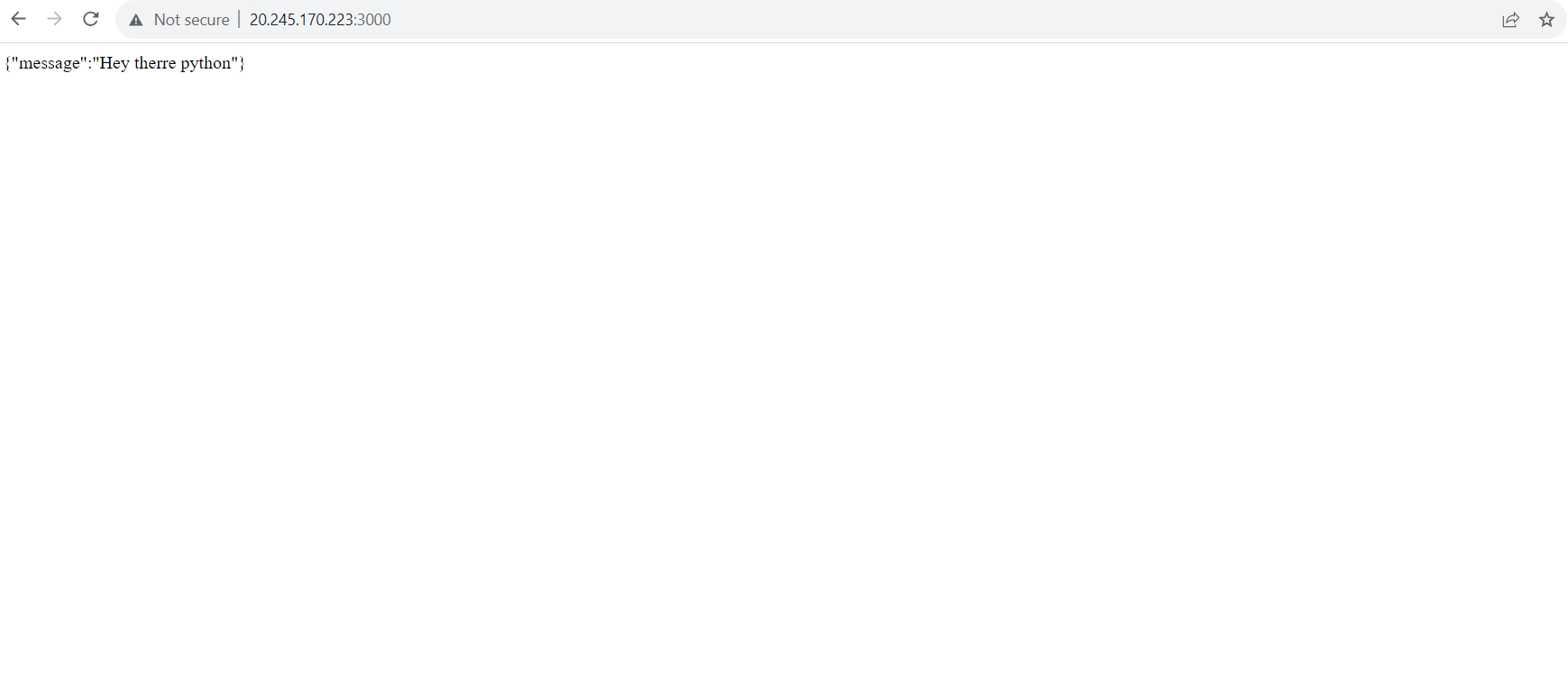
* Before the Kubernetes deployment task pushed a docker image into Azure Container Registry using below mentioned command

**az acr import -n pythonacr89 --source docker.io/srinivas121/api-python-test:0.0.1 --image api-python-test:0.0.1**

* After deployment it generated external IP, attaching a screenshot for reference(Figure 5)

(Figure 5)

* Using the external IP and port number, tried access through the internet and the result is shown in the screenshot (Figure 6)



(Figure 6)

This is my git hub link for the source code https://github.com/Sreenuj121/python-api