

Task for Cloud Platform Team at Sofia Tech Hub

Requirements

- Create git repository on Github/Gitlab
- Create Simple project in Python which creates a service that queries 2 URLs (<https://httpstat.us/503> & <https://httpstat.us/200>)
- The service will check the external URLs (<https://httpstat.us/503> & <https://httpstat.us/200>) are up (based on http status code 200) and response time in milliseconds
- The service will run a simple http server that produces metrics and outputs a Prometheus format when hitting the service URL
 - o Expected response format:
 - `sample_external_url_up{url="https://httpstat.us/503"} = 0`
 - `sample_external_url_response_ms{url="https://httpstat.us/503"}` = [value]
 - `sample_external_url_up{url="https://httpstat.us/200"} = 1`
 - `sample_external_url_response_ms{url="https://httpstat.us/200"}` = [value]
 - Hint: Use Python prometheus-client module

Looking for

- Good readme providing instructions what are the steps to run the python app in a k8s cluster.
- Dockerfile to build image.
- Helm chart to deploy this container on Kubernetes.
- Hint: use helm create