PS-3 Technical Solution

Aim: To create a docker-containing web application that displays the date and time from the server and to host it over the internet.

Steps Followed:

1. Initially the go lang program is developed and tested.
2. Further a new docker image that runs on Alpine and is installed with Go-lang and the app is executed.
3. The image is now run in a container.
4. Next the program runs on port 8080 which is exposed to the container and the same will be used for the machine that runs the application.
5. Once the running of the docker is tested the image is now pushed to the repository.
6. The repository image is as follows:
   Docker Image
7. For running the docker over the internet a Kubernetes cluster is created in GCP and while creating the cluster the uploaded image is selected fore deployment.
8. The number of replicas is set to 2 by editing the yaml file for cluster creation.
9. For hosting the web app over the internet a Compute instance is created and the docker image is run in the instance.
   Endpoint of application: http://34.170.29.221/