GCP CloudRun - Master Container deployment

#week_twentytwo - GCP CloudRun

duration: 1 week

ForgTech company wanna test your ability to deliver their requirements utilizing Google CloudRun over Google CLI.

This will help you build a good reputation. The purpose of this task is to build and deploy a general Nginx container. Then apply some advanced configurations like Blue-Green deployment *-e.g. deploy multiple revisions and split traffic, ensure new version stability-*

The FrogTech Cloud Team requests that building a Docker image, then deploy it utilizing Google registry and CloudRun while using gcloud CLI; The exact implementation is as follows:

1. Build an Nginx Docker image and pass a custom `index.html` file.

2. Push Docker Image to Google registry over gcloud CLI.

3. Deploy The Image to CloudRun over gcloud CLI, then test accessibility.

4. After Testing, adjust the index.html file and push a new version of the Docker image to the registry.

5. Deploy a new revision of the same deployment, then test accessibility.

6. Split traffic between two revisions as follows, and ensure the traffic splitting by accessing multiple times:

   a. Old revision: 70%

   b. New revision: 30%

7. Set the traffic to 100% of the new revisions.

8. Submit scaling for 3 containers.

References:

- https://eraki.hashnode.dev/gcp-cloud-run-in-practice#heading-overview