Practical 11

1. mkdir my-web-app && cd my-web-app
2. echo "from flask import Flask\napp = Flask(\_\_name\_\_)\n@app.route('/')\ndef home():\n return 'Hello from GCE Container!'\n\nif \_\_name\_\_ == '\_\_main\_\_':\n app.run(host='0.0.0.0', port=8080)" > app.py
3. echo 'FROM python:3.10-slim\nWORKDIR /app\nCOPY . /app\nRUN pip install flask\nEXPOSE 8080\nCMD ["python", "app.py"]' > Dockerfile
4. gcloud builds submit --tag gcr.io/$(gcloud config get-value project)/my-web-app:v1

if error of permission :

1. gcloud config get-value project

gcloud projects describe $(gcloud config get-value project) --format="value(projectNumber)"

2. PROJECT\_ID=$(gcloud config get-value project)

PROJECT\_NUMBER=$(gcloud projects describe $PROJECT\_ID --format="value(projectNumber)")

# Grant Cloud Build permission to create builds

gcloud projects add-iam-policy-binding $PROJECT\_ID \

--member="serviceAccount:${PROJECT\_NUMBER}@cloudbuild.gserviceaccount.com" \

--role="roles/cloudbuild.builds.editor"

# Grant Artifact Registry and Container Registry access

gcloud projects add-iam-policy-binding $PROJECT\_ID \

--member="serviceAccount:${PROJECT\_NUMBER}@cloudbuild.gserviceaccount.com" \

--role="roles/storage.admin"

# Allow it to use service accounts (needed to act on your behalf)

gcloud projects add-iam-policy-binding $PROJECT\_ID \

--member="serviceAccount:${PROJECT\_NUMBER}@cloudbuild.gserviceaccount.com" \

--role="roles/iam.serviceAccountUser"

4. PROJECT\_ID=master-well-467004-s3

PROJECT\_NUMBER=101906632926

gcloud projects add-iam-policy-binding $PROJECT\_ID \

--member="serviceAccount:${PROJECT\_NUMBER}@cloudbuild.gserviceaccount.com" \

--role="roles/cloudbuild.builds.editor"

gcloud projects add-iam-policy-binding $PROJECT\_ID \

--member="serviceAccount:${PROJECT\_NUMBER}@cloudbuild.gserviceaccount.com" \

--role="roles/storage.admin"

gcloud projects add-iam-policy-binding $PROJECT\_ID \

--member="serviceAccount:${PROJECT\_NUMBER}@cloudbuild.gserviceaccount.com" \

--role="roles/iam.serviceAccountUser"

Again run := gcloud builds submit --tag gcr.io/$PROJECT\_ID/my-web-app:v1

Set up the VM compute engine

2. go to set up the container

Paste url from

For your current project and setup, your container image is:

text

gcr.io/master-well-467004-s3/my-web-app:v1

* <your-project-id>: master-well-467004-s3
* <image-name>: my-web-app
* <tag>: v1
* Set up the vm to micro
* Go to external ip in port 8080 if not make fire wall rule