Deploy to google cloud run .
We need to deploy a docker image . We need to deploy docker image in this .
Source code - app.py , requirements.txt, Dockerfile
Push the changes to repo .
cat Dockerfile :

```
FROM python
RUN pip install flask
WORKDIR /myapp
COPY ./main.py /myapp/
CMD ["python","/myapp/main.py"]
```

—----------

```
from flask import Flask
app = Flask(__name__)
@app.route('/')
def index():
   return 'Web App with Python Flask!'
if __name__=='__main__':
   app.run(host='0.0.0.0',port=8080
```

Cloud build - Docker build, docker push, gcloud run deploy
cloudbuild.yaml - in file rename project id with your own project id .

```
steps:
#Build the container image
    - name: ‘gcr.io/cloud-builders/docker’
      args: [‘build’,’-t’,’gcr.io/your-project-id/imagename’,’.’]
#Push the container image to container registry
    - name: ‘gcr.io/cloud-builders/docker’
      args: [‘push’,’gcr.io/project-id/imagename’]
#Deploy container image to cloud run
    - name: ‘gcr.io/google.com/cloudsdktool/cloud-sdk’
      entrypoint: gcloud
      args:[‘run’,’deploy’,’myfirstrun’,’--image’,’gcr.io/project-id/imagename’,’--region’,’us-centra
      l1’,’--allow-unauthenticated’]
#images is a global variable which we can utilize in cloudbuild to specify image name .
images:
    - gcr.io/project-id/imagename
option:
    logging: CLOUD_LOGGING_ONLY
```

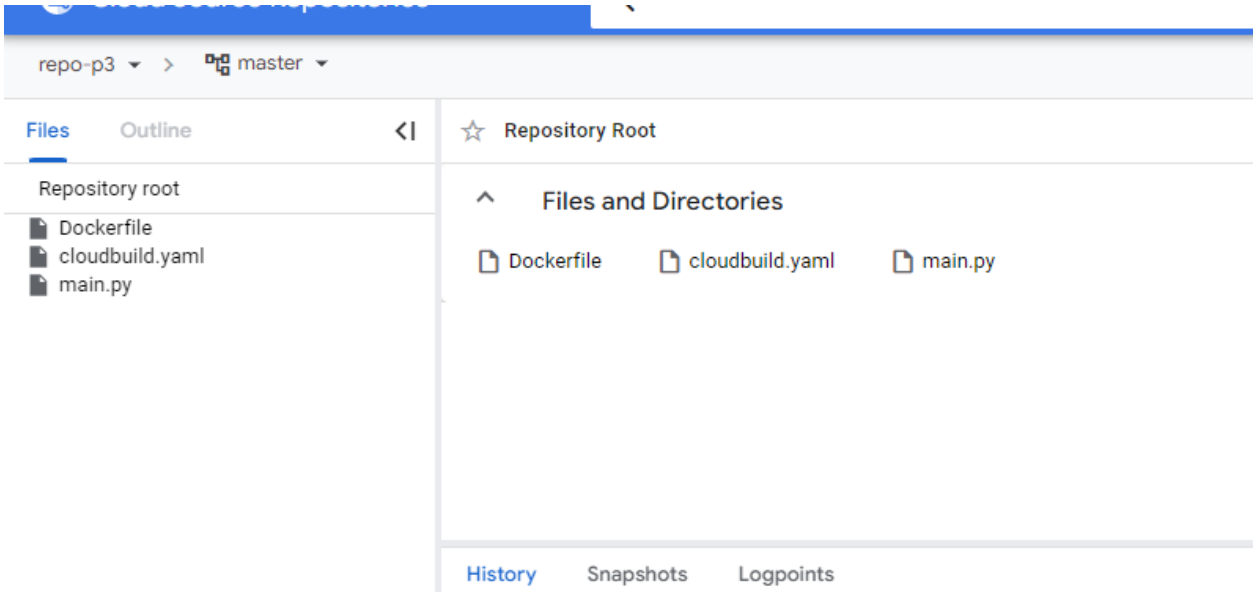
=----------

```
cat cloudbuild.yaml
steps:
  - name: 'gcr.io/cloud-builders/docker'
```

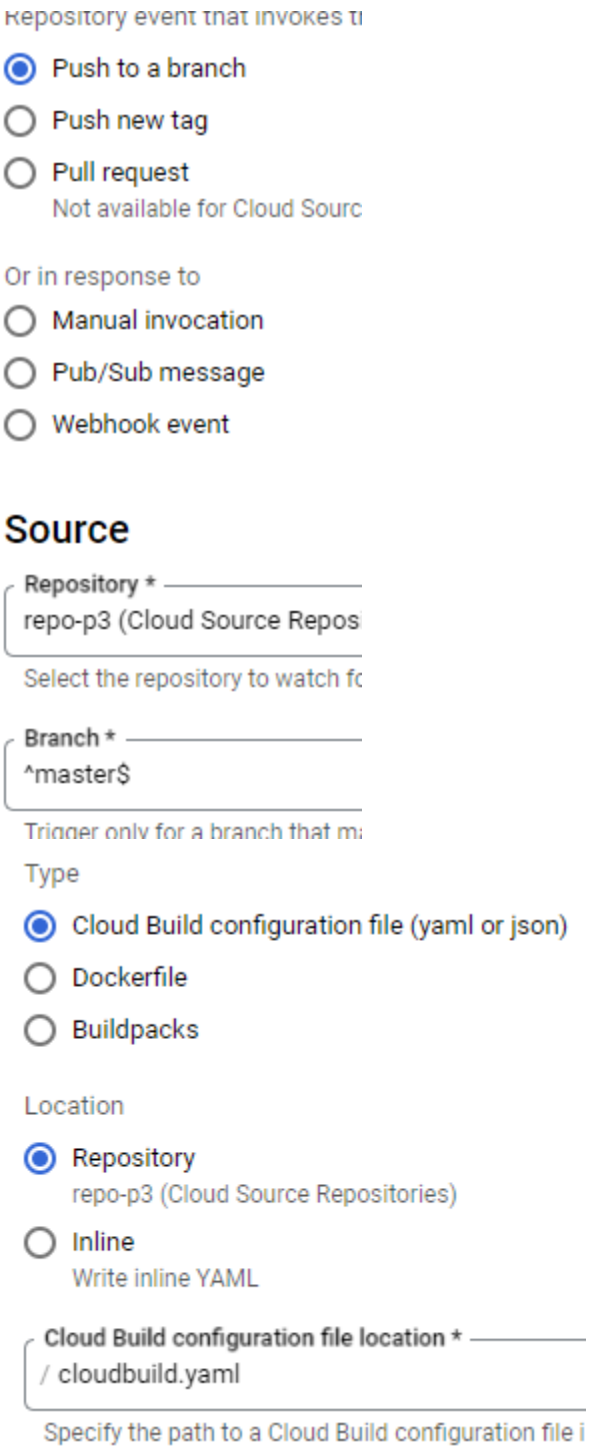
```
    args: ['build','-t','gcr.io/qwiklabs-gcp-01-97a5175489fe/image-new','.']
  - name: 'gcr.io/cloud-builders/docker'
    args: ['push','gcr.io/qwiklabs-gcp-01-97a5175489fe/image-new']
  - name: 'gcr.io/google.com/cloudsdktool/cloud-sdk'
    entrypoint: gcloud
    args:
['run','deploy','image-new','gcr.io/qwiklabs-gcp-01-97a5175489fe/image-new','--region','us-central1','--allow-unauthenticated']
images:
  - gcr.io/qwiklabs-gcp-01-97a5175489fe/image-new
options:
  logging: CLOUD_LOGGING_ONLY
```

Your build failed to run: generic::invalid_argument: if 'build.service_account' is specified, the build must either (a) specify 'build.logs_bucket' (b) use the CLOUD_LOGGING_ONLY logging option, or (c) use the NONE logging option
We have to specify CLOUD_LOGGING_ONLY if we use any service account .

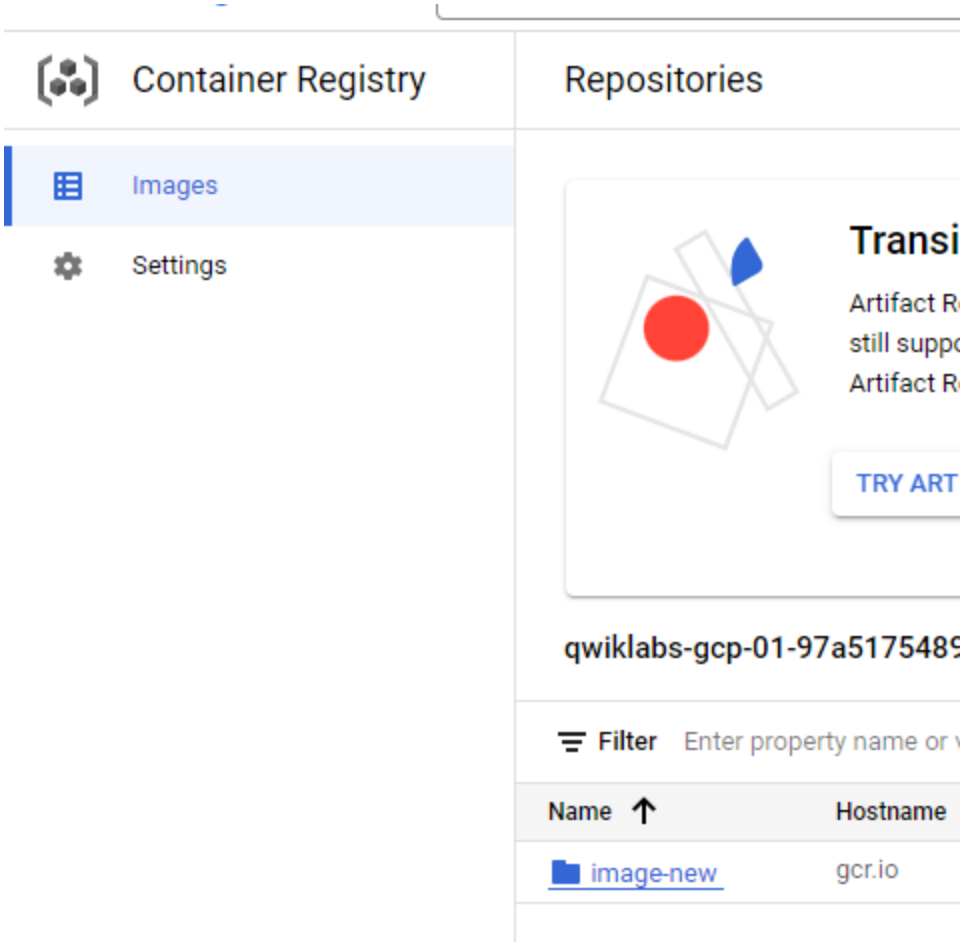
Deploy to cloud run
We will implement multiple steps in cloud build .
Create source repo > repo-4 > push cloudbuild.yaml , main.py , Dockerfile to git .



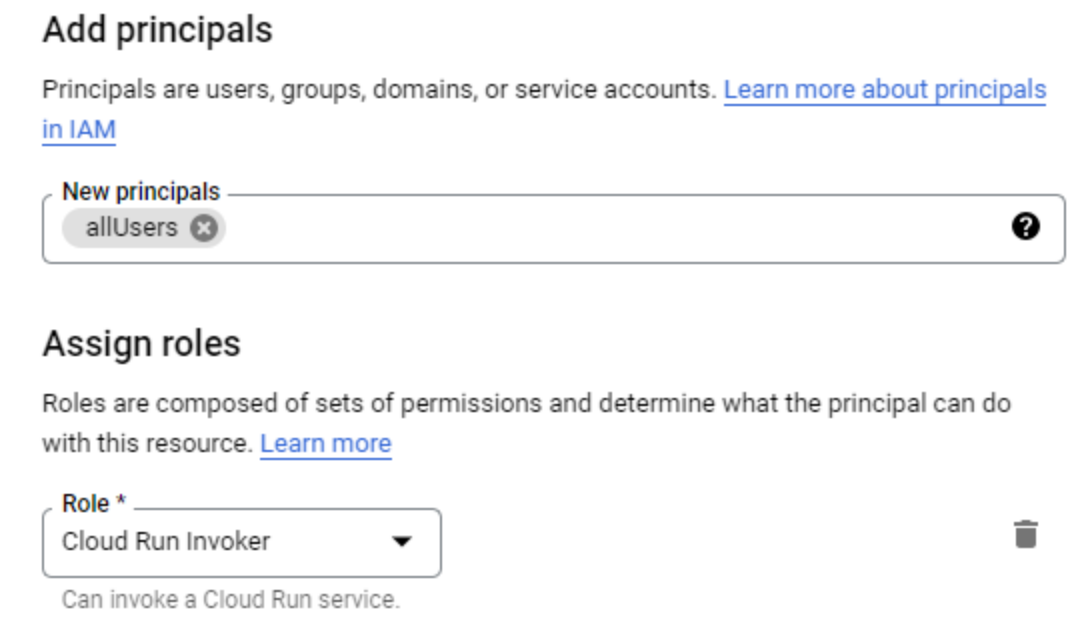
Cloud build > Trigger > based on yaml > on repo master branch event > create

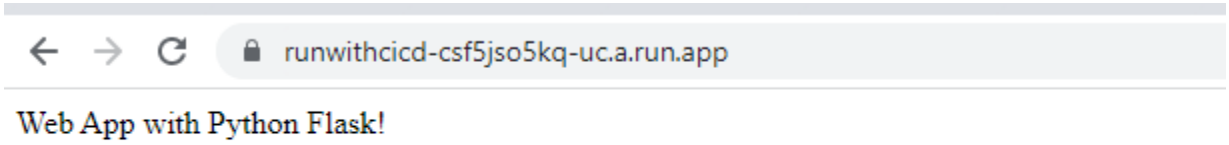


Run trigger . We can check in the container registry whether the image is pushed or not .



We can check in the cloud whether our deployment is done or not .
If –allow-unauthenticated will not work then we have to add permission manually for all users or we can add 1 step in cloudbuild for this part .
Allusers - cloud run incoker role so that application will be accessible on internet .





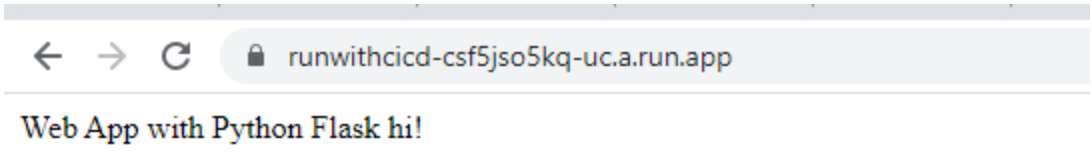
Deployed with cloud run .

```
Step #2: ERROR: (gcloud.run.deploy) PERMISSION_DENIED: Cloud Run Admin AF
has not been used in project 354858291637 before or it is disabled. Enabl
it by visiting
https://console.developers.google.com/apis/api/run.googleapis.com/overvie
project=354858291637 then retry. If you enabled this API recently, wait a
```

Enable cloud run api .
Was getting erro bcz of cloudbuild.yaml syntax mistake .

```
Branch 'master' set up to track remote branch 'master' from 'origin'.
student_00_e909601900c8@cloudshell:~/repo-p3 (qwiklabs-gcp-01-97a5175489fe)$ cat cloudbuild.yaml
steps:
  - name: 'gcr.io/cloud-builders/docker'
    args: ['build','-t','gcr.io/qwiklabs-gcp-01-97a5175489fe/image-new','.']
  - name: 'gcr.io/cloud-builders/docker'
    args: ['push','gcr.io/qwiklabs-gcp-01-97a5175489fe/image-new']
  - name: 'gcr.io/google.com/cloudsdktool/cloud-sdk'
    entrypoint: gcloud
    args: ['run','deploy','runwithcicd','--image','gcr.io/qwiklabs-gcp-01-97a5175489fe/image-new','--region','us-central1','--allow-unauthenticated']
images:
  - gcr.io/qwiklabs-gcp-01-97a5175489fe/image-new
options:
  logging: CLOUD_LOGGING_ONLY
student_00_e909601900c8@cloudshell:~/repo-p3 (qwiklabs-gcp-01-97a5175489fe)$
```

Use service account if you get permission issues .
Update main.py and check whether trigger runs or not .



Cloud run is deployed after updating main.py