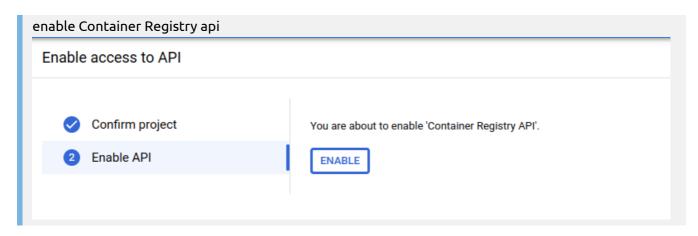
Lab 3.3

1.Using gcloud & Docker:

• Configure Docker & gcloud to work with GCR of your project.



• Push Nginx docker image to GCR (make the image private).

configure docker to use gcr.io

tag with gcr.io/stellar-river-354117/mynginx:1.1

```
mohamed@DevOps:$ docker tag nginx:alpine gcr.io/stellar-river-354117/mynginx:2.0

mohamed@DevOps:$ docker push gcr.io/stellar-river-354117/mynginx:2.0

The push refers to repository [gcr.io/stellar-river-354117/mynginx]

889ab273892d: Layer already exists

9ec529c881ef: Layer already exists

5da18141d115: Layer already exists

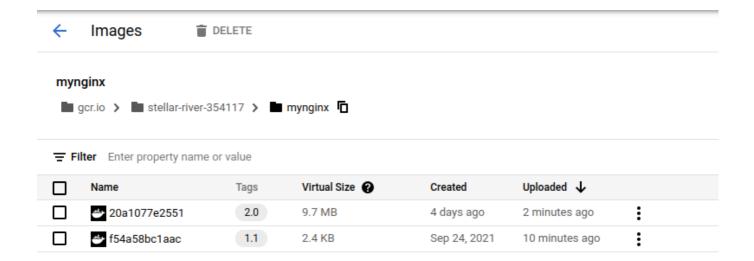
97a932510759: Layer already exists
```

c1dc3f68a3a7: Layer already exists 24302eb7d908: Layer already exists

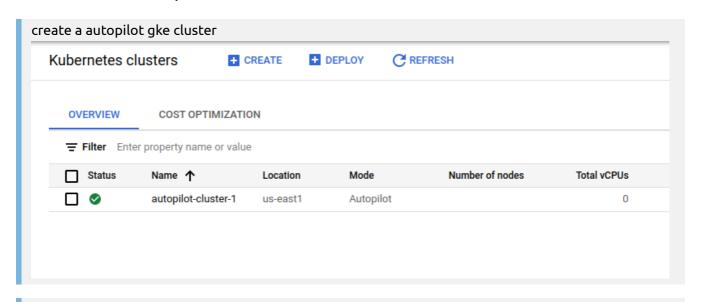
2.0: digest:

sha256:20a1077e25510e824d6f9ce7af07aa02d86536848ddab3e4ef7d1804608d8125

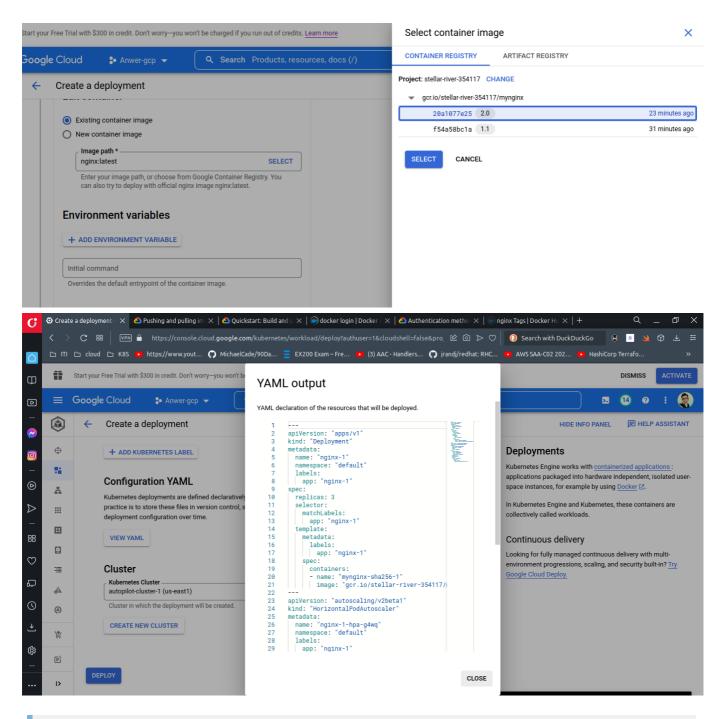
size: 1568



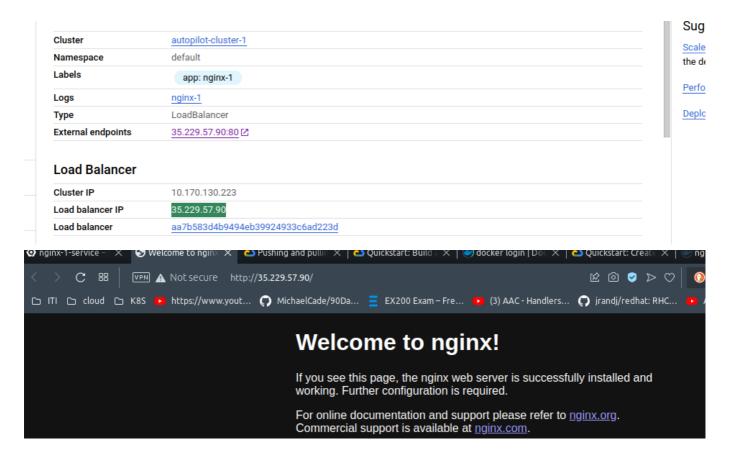
• Pull this image into a k8s setup or on a VM (hint: attach a SA on ur vm or gke with correct iam role).



create deployment with mynginx:2.0 image

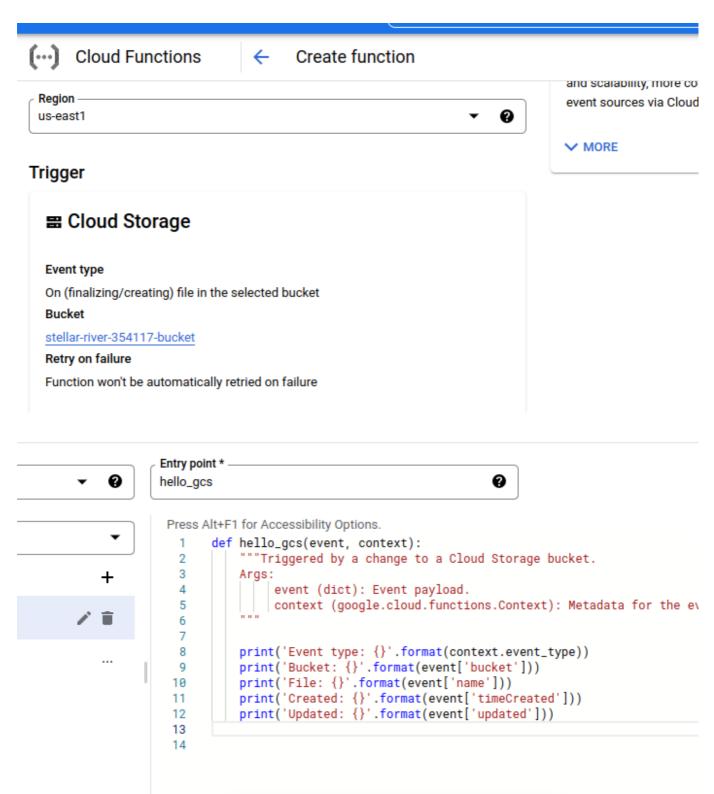


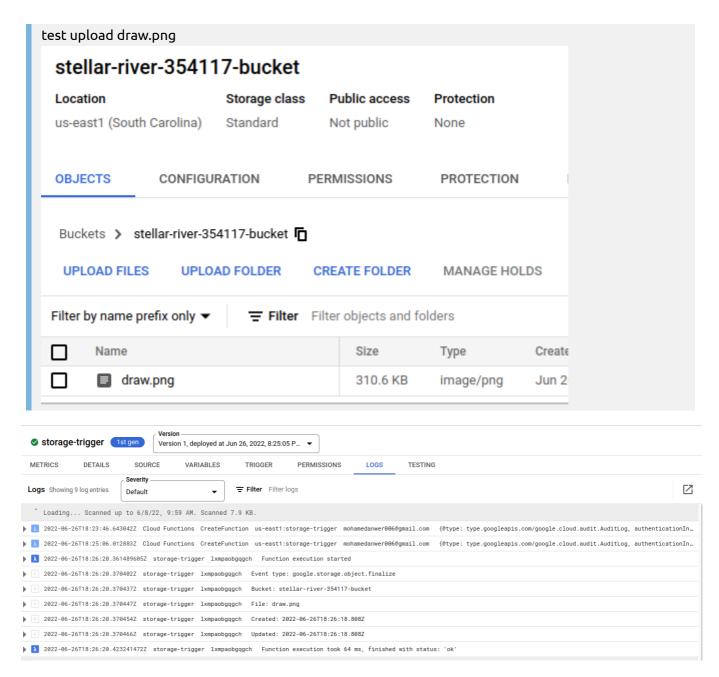
Expose



Using Cloud Functions:

Create a Function that runs whenever a file is uploaded to a cloud storage bucket.

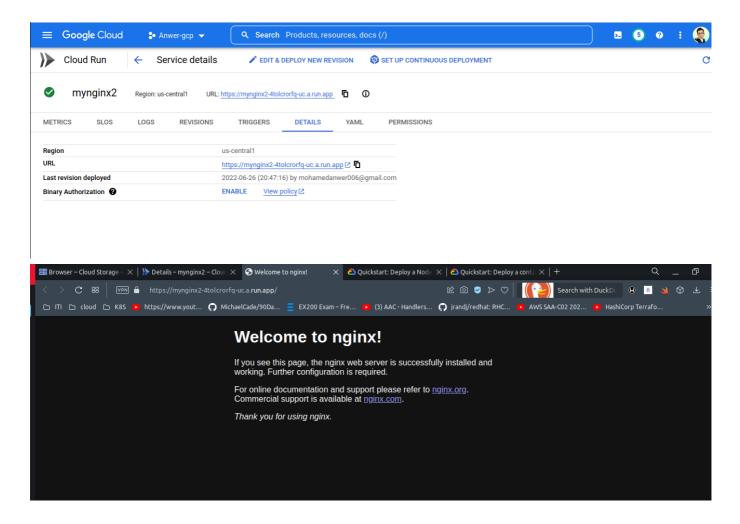




3 -Using Cloud Run

· Run a pre-built docker image (pulled from GCR)

create a cloud run service and use the image you just pushed mynginx:2.0



Build and Run any sample app

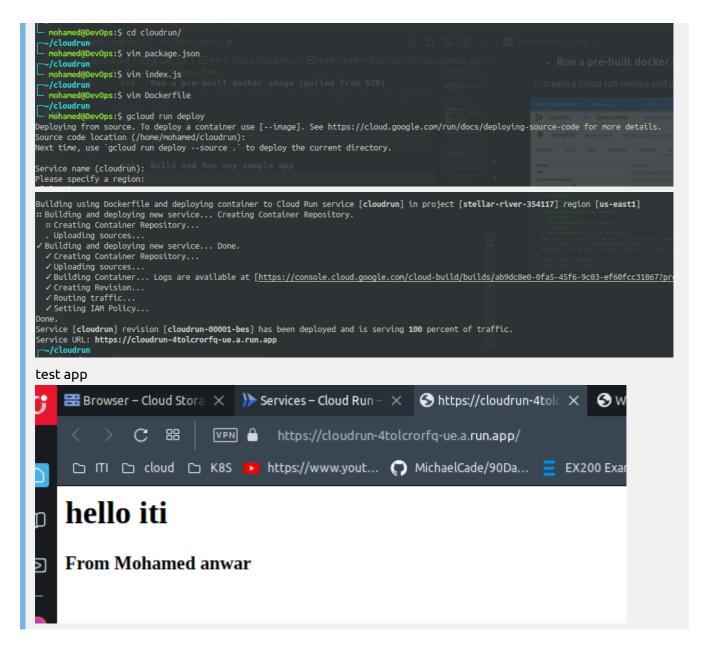
```
create simple nodejs app

const express = require('express');
const app = express();

app.get('/', (req, res) => {
    res.send("<h1>hello iti </h1> <h3>From Mohamed anwar</h3>");
});

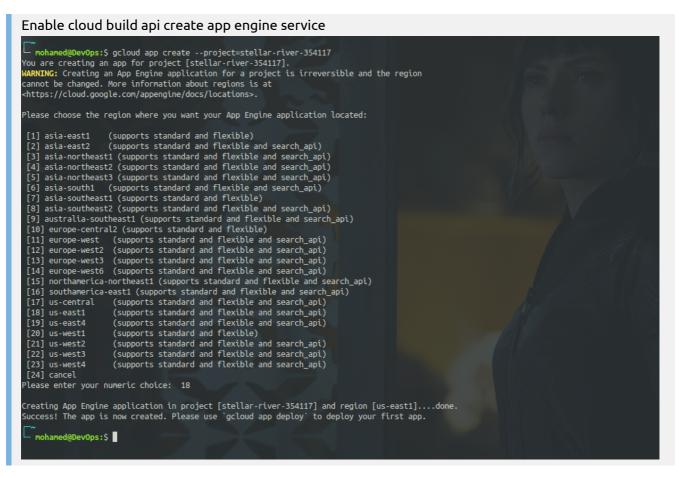
const port = parseInt(process.env.PORT) || 8080;
app.listen(port, () => {
    console.log("cloudrun: listening on port ${port}");
});

a
deploy from
local folder
```



Using App Engine:

Run the sample hello-world python app



clone simple flask app deploy app mohamed@DevOps:\$ ls app.yaml env main.py requirements.txt -~/hello-world mohamed@DevOps:\$ rm -r env/ mohamed@DevOps:\$ gcloud app deploy Services to deploy: [/home/mohamed/hello-world/app.yaml] [/home/mohamed/hello-world] descriptor: [stellar-river-354117] [default] target project: target service: [20220626t213313] [https://stellar-river-354117.ue.r.appspot.com] [App Engine default service account] target version: target url: target service account: Do you want to continue (Y/n)? y Beginning deployment of service [default]... = Uploading 3 files to Google Cloud Storage Updating service [default]...:

