1. Cloud Run

No screenshots or observations

2. Application

No screenshots or observations

3. templates/proxy.html

4. app.py

5. requirements.txt

```
flask
requests
gunicor
```

6. Dockerfile

```
FROM python:3.7-slim

MAINTAINER Branden Codd "coddcesou.edu"

COPY . /app

WORKDIR /app

RUN pip install -r requirements.txt

CMD gunicorn --bind :$PORT --workers 1 --threads 8 app:app
```

7. Build and test in Cloud Shell

```
← → C  

8000-cs-730324504483-default.us-west1.cloudshell.dev/?authuser=1
```

Hello World!

There is nothing to see here so move along.

8. Cloud Build and Container Registry

- When finished, list the container images in the registry.

```
TO TOWARD SOURCE STATUS

TOWARD SOURCE STATUS

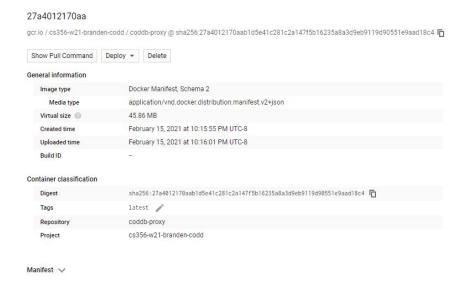
TOWARD SOURCE SOURCE STATUS

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```

- Show the size of the container in the UI and take a screenshot of it for your lab notebook:



9. Deploy to Cloud Run

- You should get back a URL that has your container running on it:

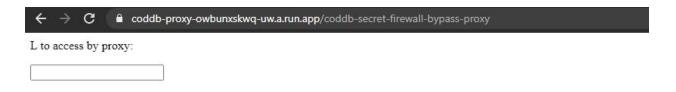
```
Done.

Service [coddb-proxy] revision [coddb-proxy-00001-goh] has been deployed and is serving 100 percent of traffic.

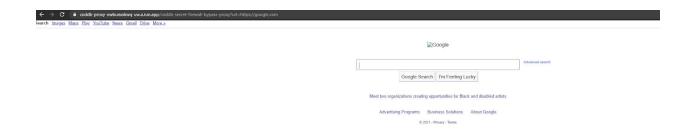
Service URL: https://coddb-proxy-owbunxskwq-uw.a.run.app
coddb@cloudshell:~/cs356-cloud-files/05_gcp_datastore/coddb-proxy (cs356-w21-branden-codd) $ []
```

10. Visit the site

 Visit the secret URL that gives you proxy access and take a screenshot of it that includes the URL for your lab notebook.



- Then, screenshot the result that is returned when https://google.com is entered as the URL to access



- Attempt to access the Metadata service associated with the VM that runs your container by entering the following URLs into the proxy http://169.254.169.254/computeMetadata and http://169.254.169.254/computeMetadata/v1. Read this <u>article</u> and this <u>article</u>. Identify the vulnerability in your lab notebook that Google has prevented.
 - Google has prevented an SSRF vulnerability