Lab Week 6 — marvleon
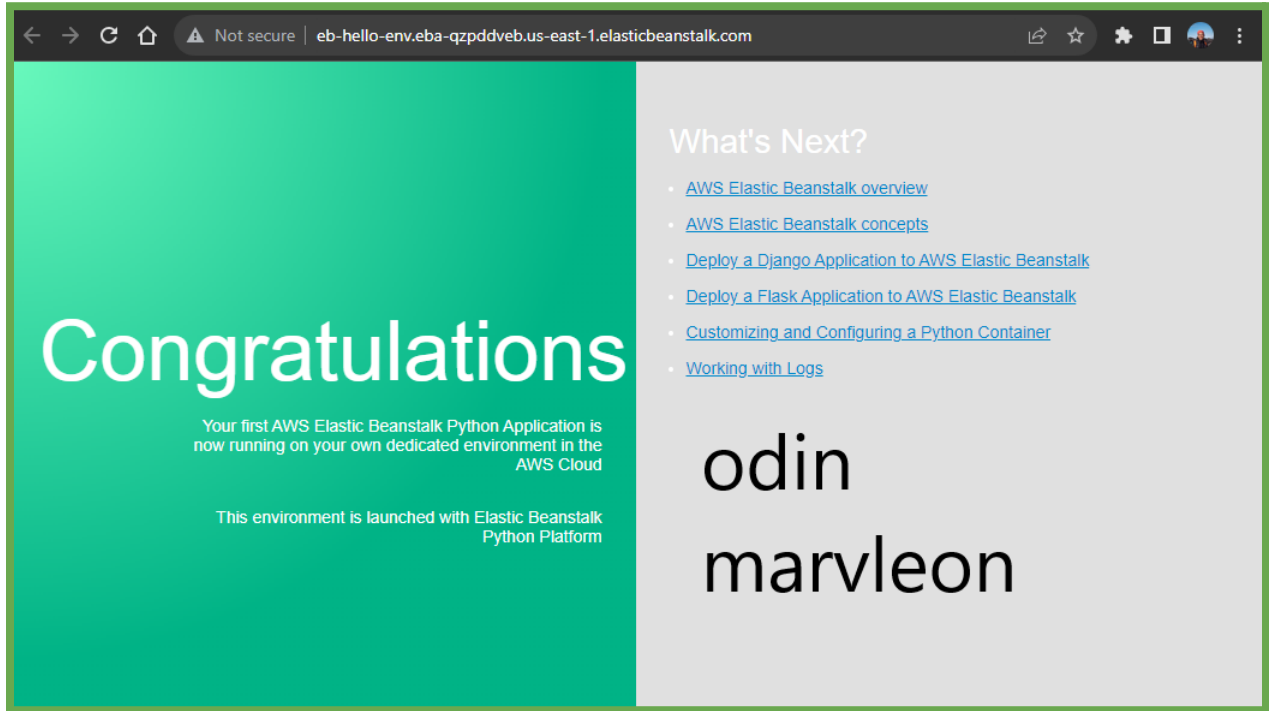
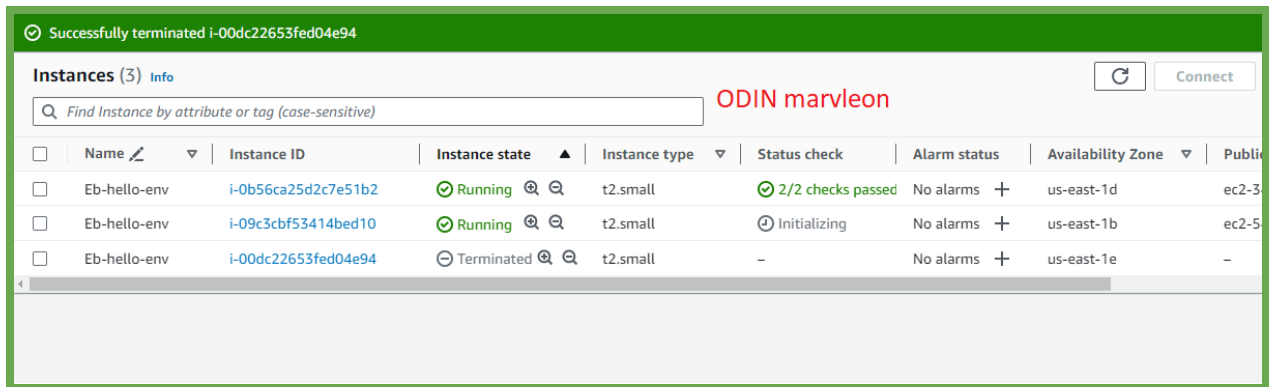# 6.1a EB Guestbook

6.1.3 Running the application

6.1.4 Handling failures seamlessly

6.1.7 Deploying the Guestbook
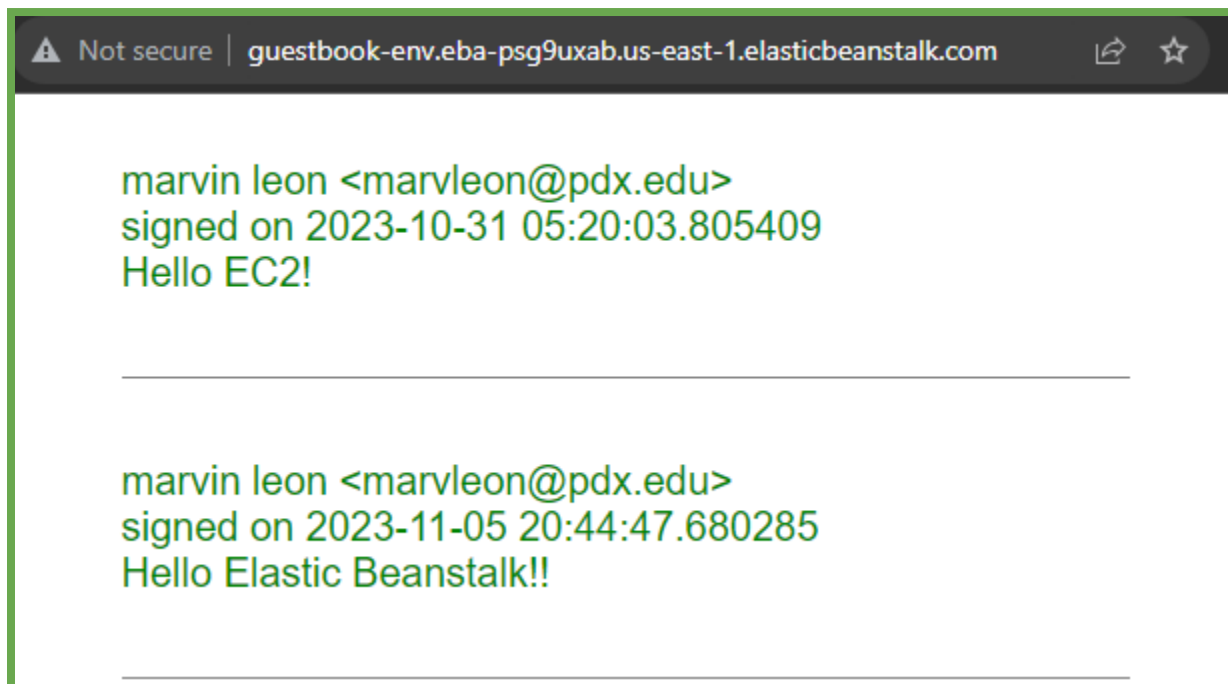
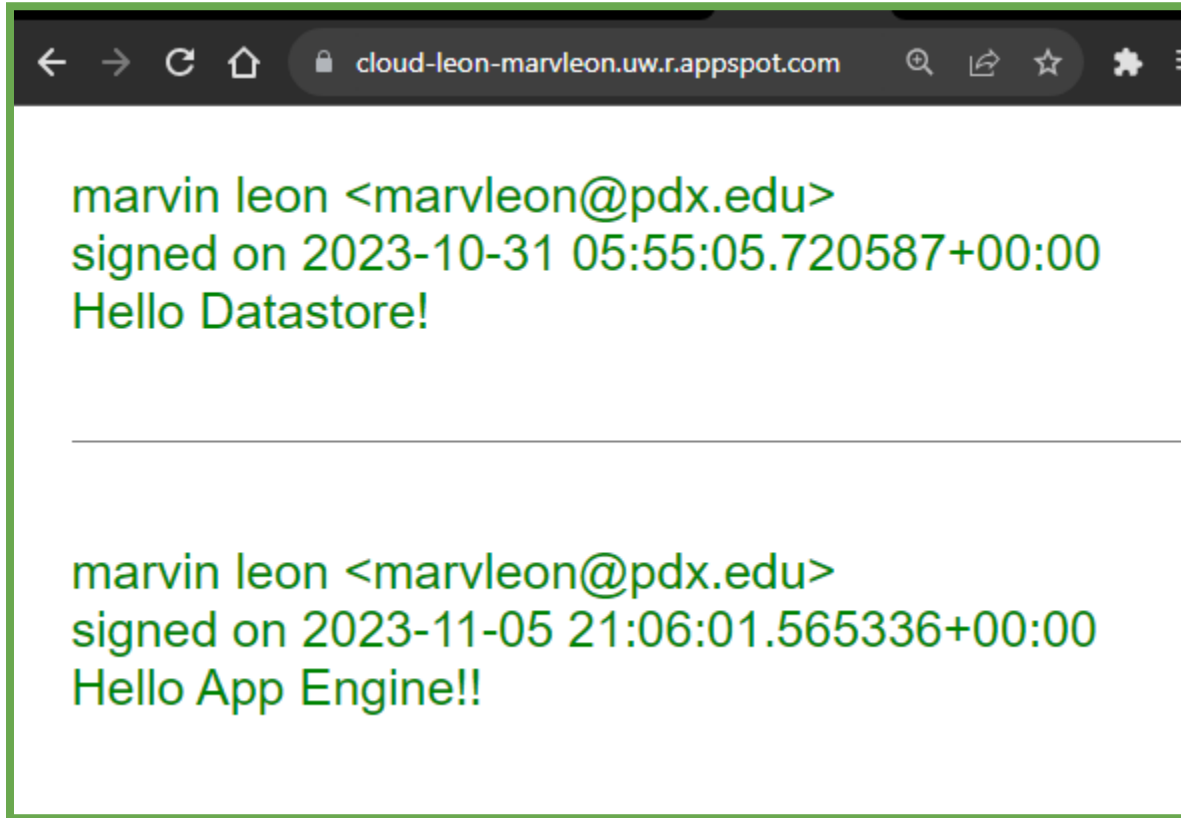Not secure | guestbook-env.eba-psg9uxab.us-east-1.elasticbeanstalk.com

marvin leon <marvleon@pdx.edu>
signed on 2023-10-31 05:20:03.805409
Hello EC2!

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marvin leon <marvleon@pdx.edu>
signed on 2023-11-05 20:44:47.680285
Hello Elastic Beanstalk!!

Instances (6) Info   marvleon

Name	Instance ID	Instance state	Instance type	Status check
guestbook-env	i-0785e0ed8e21e1aed	⊘ Running	t3.micro	⊘ 2/2 checks passed
guestbook-env	i-094e78424841f1e8f	⊘ Running	t3.micro	⊘ 2/2 checks passed
guestbook-env	i-089c15399afc8dc0d	⊘ Running	t3.micro	⊘ 2/2 checks passed

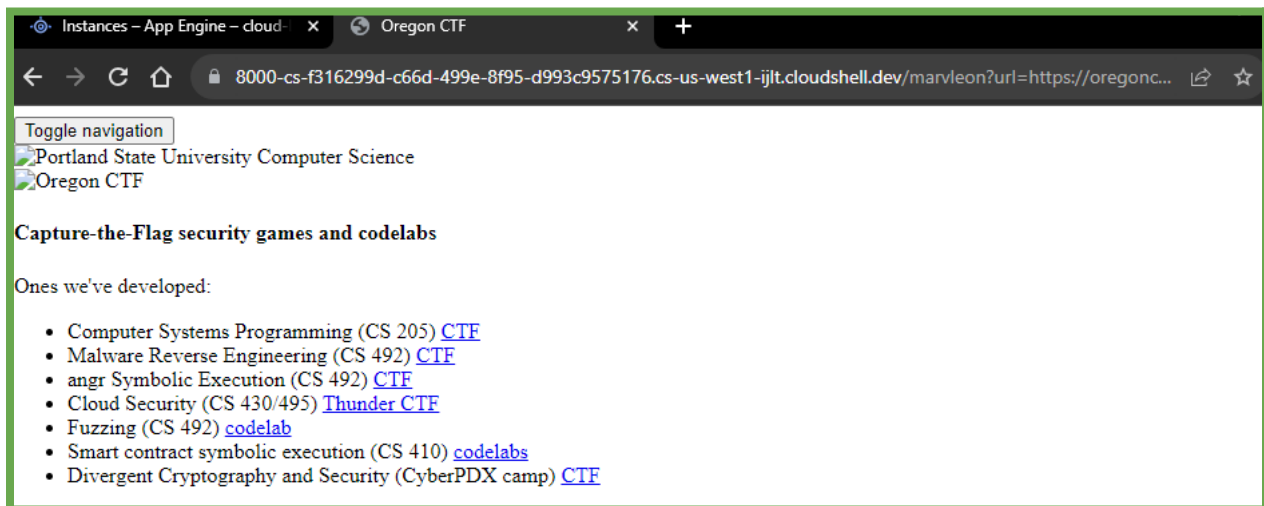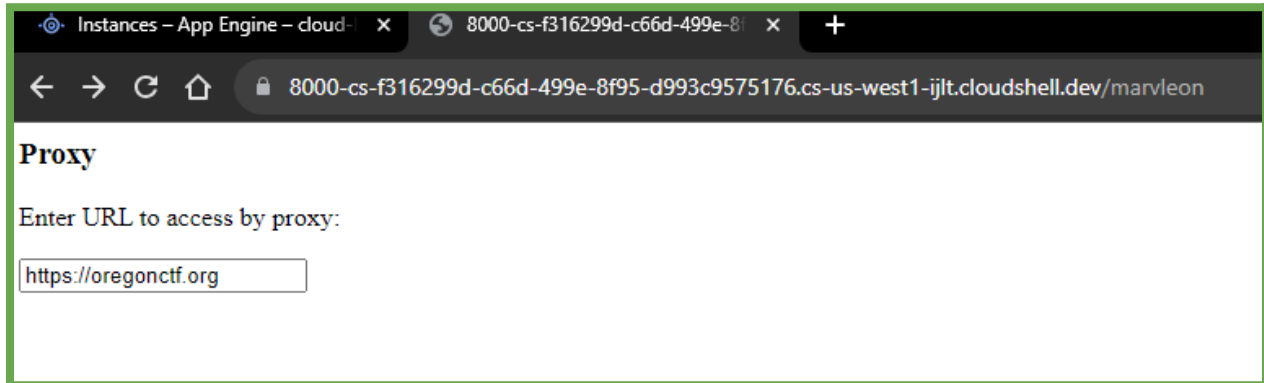# 6.1g App Engine Guestbook

6.1.3 Deploying the Guestbook

6.1.4 Handling failures seamlessly

6.2g Cloud Run, Secret Manager (Web Proxy)

6.2.8 Setup secret proxy

What is the security advantage of passing in the secret proxy route as an environment variable?

      When the Docker container is stopped or removed the environment variables disappear with it. The environment variable is only accessible to the process running inside the Docker container. Also, configuration is separated from the code (the secret route is not hardcoded).

6.2.9 Cloud Build and Container Registry

6.2.10 Deploy to Cloud Run

6.2.12 Deploy to Cloud Run with Secret Manager
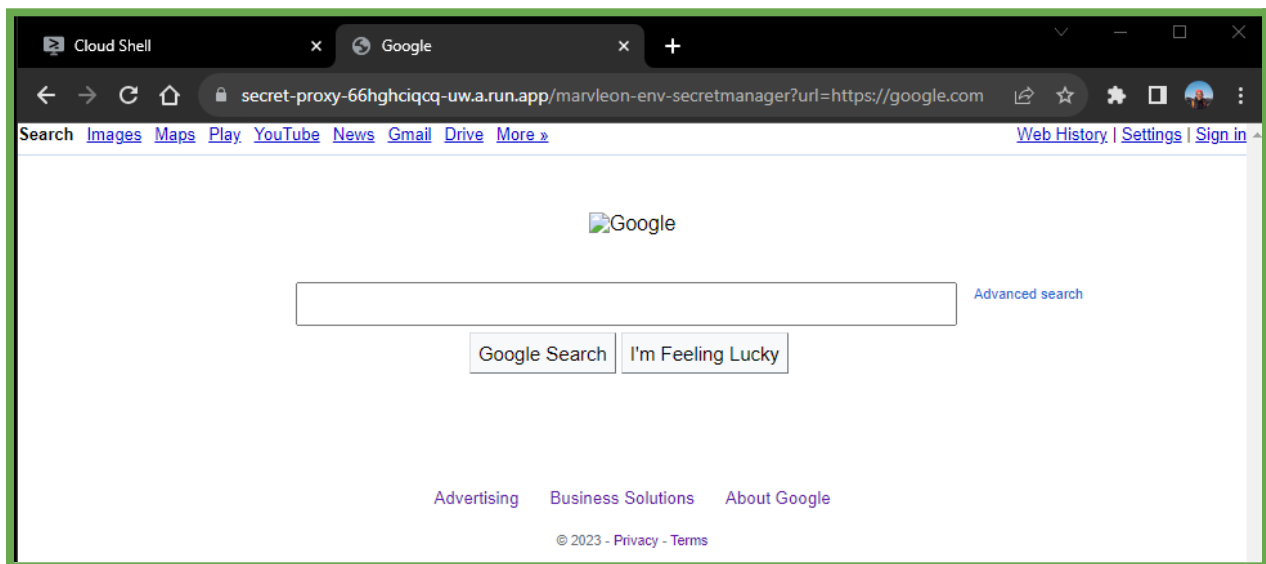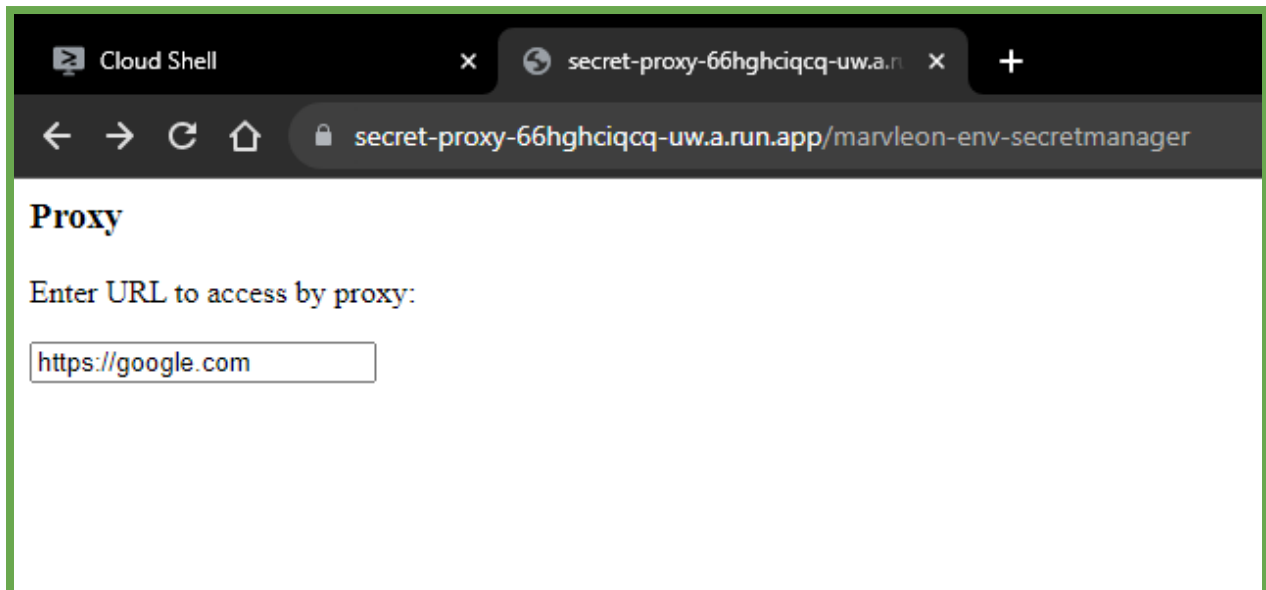
Identify the vulnerability that Google has prevented.

Google has prevented Server-Side Request Forgery by requiring a special HTTP header called Metadata-Flavor to be included in requests to its metadata server. Without this, any app can be tricked into querying the computeMetadata URLs and showing sensitive information.
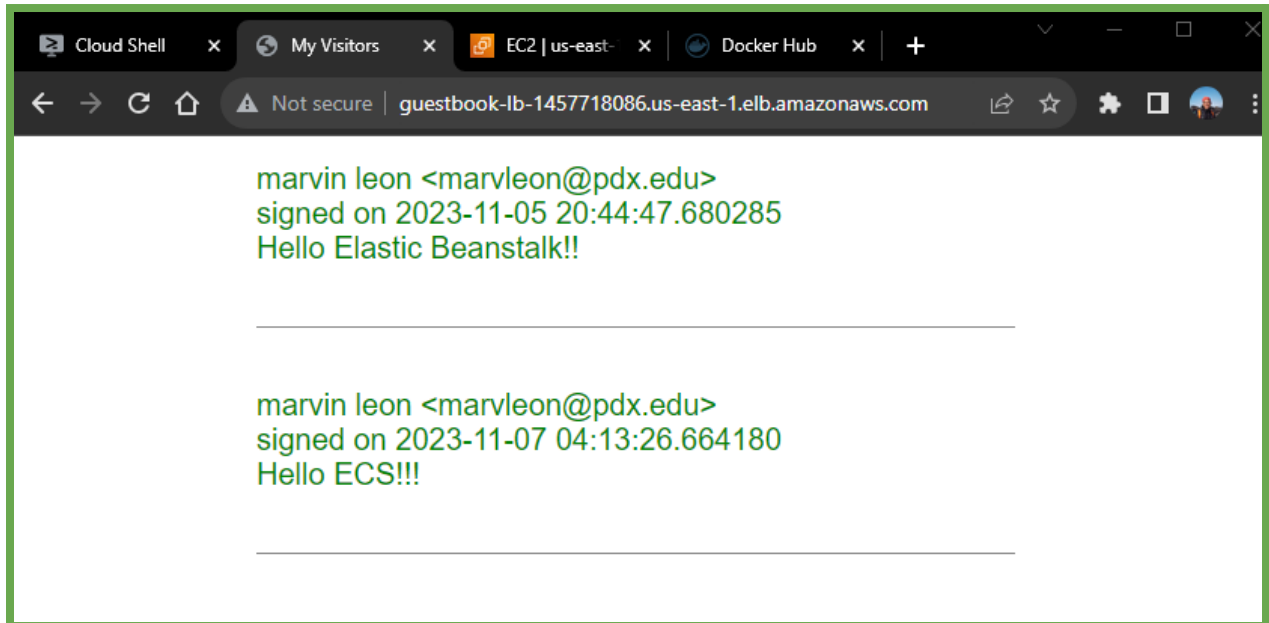
6.3a ECS Guestbook

6.3.5 Examine the service

6.3.6 Visit the site

6.3g Cloud Run Guestbook

6.3.2 Prepare a container image

6.3.3 View container image

6.3.5 View the Guestbook

What port do container instances listen on?

8080

What are the maximum number of instances Cloud Run will autoscale up to?

100

6.4 Cloud Functions PubSub

6.4.4 -

After downloading the file from the bucket, where is it stored?

Somewhere locally, determined by the tempfile.mkstemp() function.

What class in the ImageMagick package is used to do the blurring of the file?

The Image class from the Wand library.

What lines of code perform the blurring of the image and its storage back into the filesystem?

Lines 72-74

```
with Image(filename=temp_local_filename) as image:
    image.resize(*image.size, blur=16, filter="hamming")
    image.save(filename=temp_local_filename)
```

6.4.7 Test function
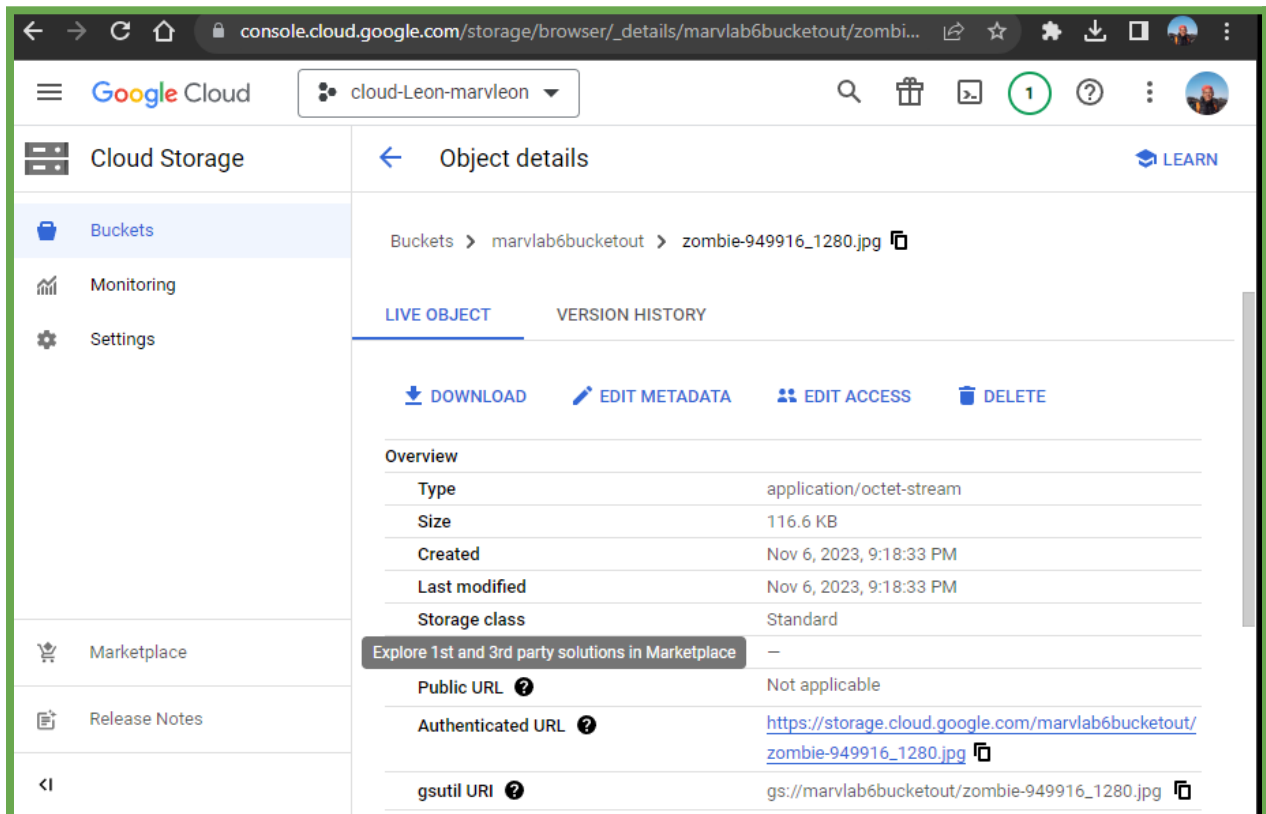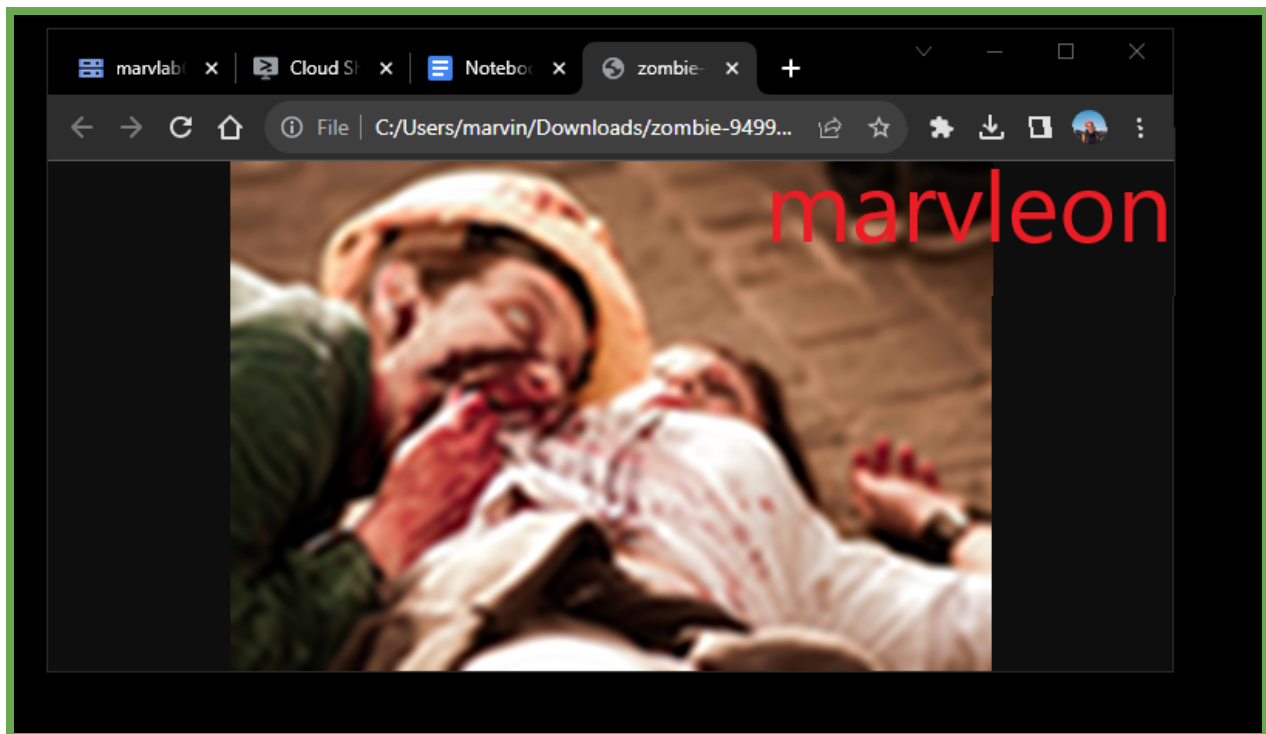
```
NAME: blur_offensive_images
EXECUTION_ID: 2h2buvhpfkf7
TIME_UTC: 2023-11-07 05:18:33.182
LOG: Function execution took 1609 ms, finished with status: 'ok'

LEVEL: I
NAME: blur_offensive_images
EXECUTION_ID: 2h2buvhpfkf7
TIME_UTC: 2023-11-07 05:18:33.180
LOG:

LEVEL: I
NAME: blur_offensive_images
EXECUTION_ID: 2h2buvhpfkf7
TIME_UTC: 2023-11-07 05:18:33.180
LOG: Blurred image uploaded to: gs://marvlab6bucketout/zombie-949916_1280.jpg

LEVEL: I
NAME: blur_offensive_images
EXECUTION_ID: 2h2buvhpfkf7
TIME_UTC: 2023-11-07 05:18:33.026
LOG:

LEVEL: I
NAME: blur_offensive_images
EXECUTION_ID: 2h2buvhpfkf7
TIME_UTC: 2023-11-07 05:18:33.026
LOG: Image zombie-949916_1280.jpg was blurred.

LEVEL: I
NAME: blur_offensive_images
EXECUTION_ID: 2h2buvhpfkf7
TIME_UTC: 2023-11-07 05:18:32.120
LOG:

LEVEL: I
NAME: blur_offensive_images
EXECUTION_ID: 2h2buvhpfkf7
TIME_UTC: 2023-11-07 05:18:32.120
LOG: Image zombie-949916_1280.jpg was downloaded to /tmp/tmplk7_sn4r.

LEVEL: I
NAME: blur_offensive_images
EXECUTION_ID: 2h2buvhpfkf7
TIME_UTC: 2023-11-07 05:18:32.069
LOG:

LEVEL: I
NAME: blur_offensive_images
EXECUTION_ID: 2h2buvhpfkf7
TIME_UTC: 2023-11-07 05:18:32.069
LOG: The image zombie-949916_1280.jpg was detected as inappropriate.

LEVEL: I
NAME: blur_offensive_images
EXECUTION_ID: 2h2buvhpfkf7
TIME_UTC: 2023-11-07 05:18:31.763
LOG:

LEVEL: I
NAME: blur_offensive_images
EXECUTION_ID: 2h2buvhpfkf7
TIME_UTC: 2023-11-07 05:18:31.763
LOG: Analysing zombie-949916_1280.jpg.

LEVEL: D
NAME: blur_offensive_images
EXECUTION_ID: 2h2buvhpfkf7
TIME_UTC: 2023-11-07 05:18:31.572
LOG: Function execution started

LEVEL: E
NAME: blur_offensive_images
EXECUTION_ID:
TIME_UTC: 2023-11-07 05:18:30.427
LOG: /layers/google.python.pip/pip/lib/python3.7/site-packages/google/oauth2/__init__.py:40: Python37DeprecationWarning: After January 1, 2024, new releases of this library will drop support for
Python 3.7. More details about Python 3.7 support can be found at https://cloud.google.com/python/docs/python37-sunset/
  warnings.warn(message, Python37DeprecationWarning)

LEVEL: E
NAME: blur_offensive_images
EXECUTION_ID:
TIME_UTC: 2023-11-07 05:18:30.422
LOG: /layers/google.python.pip/pip/lib/python3.7/site-packages/google/auth/__init__.py:55: Python37DeprecationWarning: After January 1, 2024, new releases of this library will drop support for Py
thon 3.7. More details about Python 3.7 support can be found at https://cloud.google.com/python/docs/python37-sunset/
  warnings.warn(message, Python37DeprecationWarning)

LEVEL: E
NAME: blur_offensive_images
EXECUTION_ID:
TIME_UTC: 2023-11-07 05:16:11.207
LOG: /layers/google.python.pip/pip/lib/python3.7/site-packages/google/oauth2/__init__.py:40: Python37DeprecationWarning: After January 1, 2024, new releases of this library will drop support for
Python 3.7. More details about Python 3.7 support can be found at https://cloud.google.com/python/docs/python37-sunset/
  warnings.warn(message, Python37DeprecationWarning)
```

6.4.11 PubSub via CLI

Why are there no items returned?

The user subscribed <u>after</u> the message was published, so the new subscriber cannot pull the old message.

6.4.12 -

What is the messageID of the published message?

9584811683418593

6.4.15 Test programs and cleanup