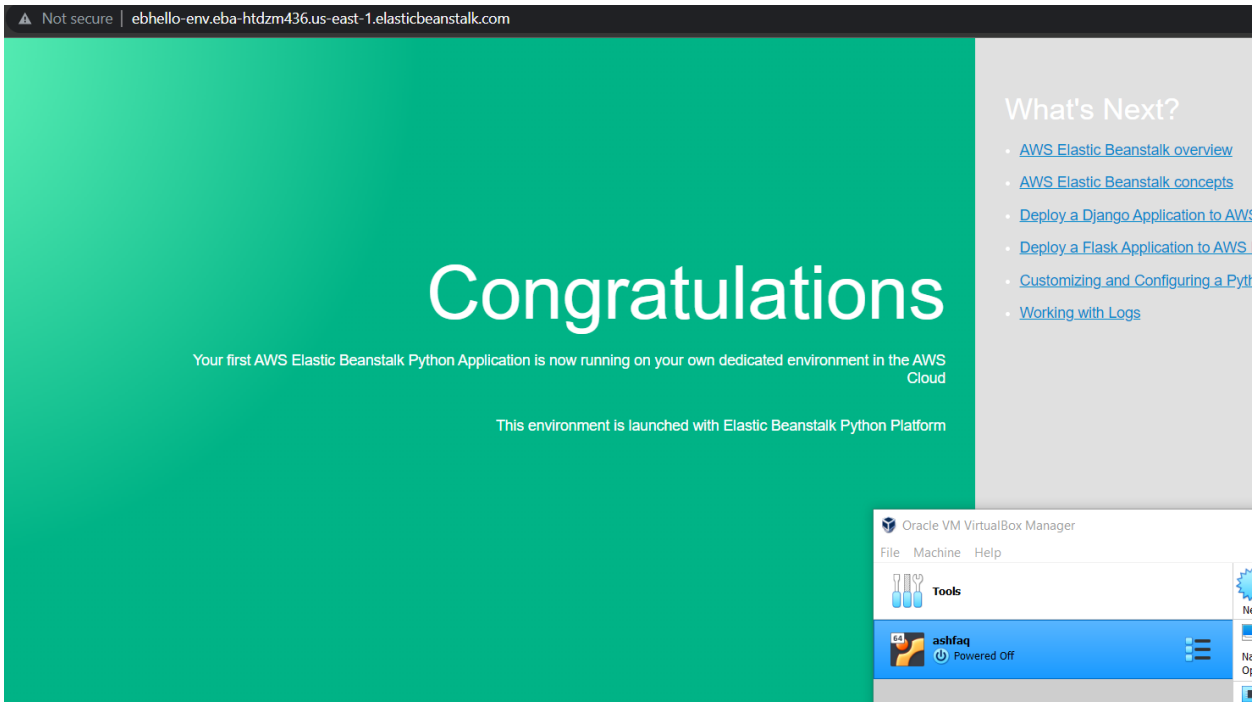
06.1a: EB Guestbook

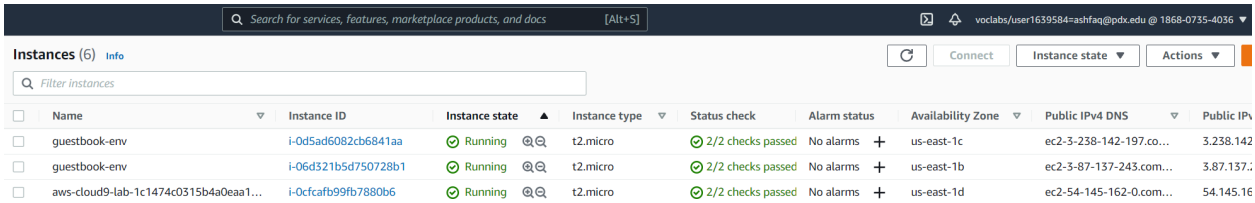
3. Running the application

- Take a screenshot showing it has been brought up successfully



7. Deploying the Guestbook

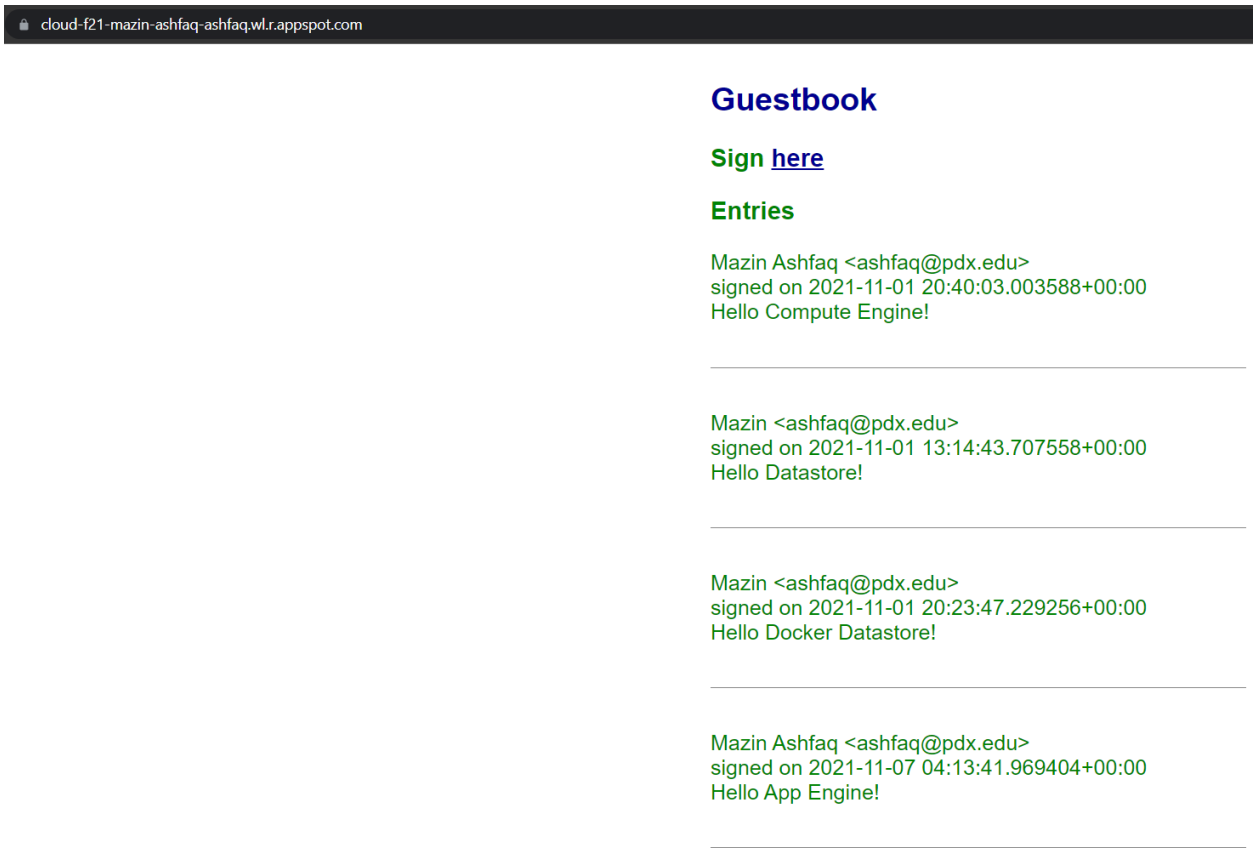
- Then, visit the EC2 console to see that the specified minimum number of instances has been created and take a screenshot of them.



06.1g: App Engine Guestbook

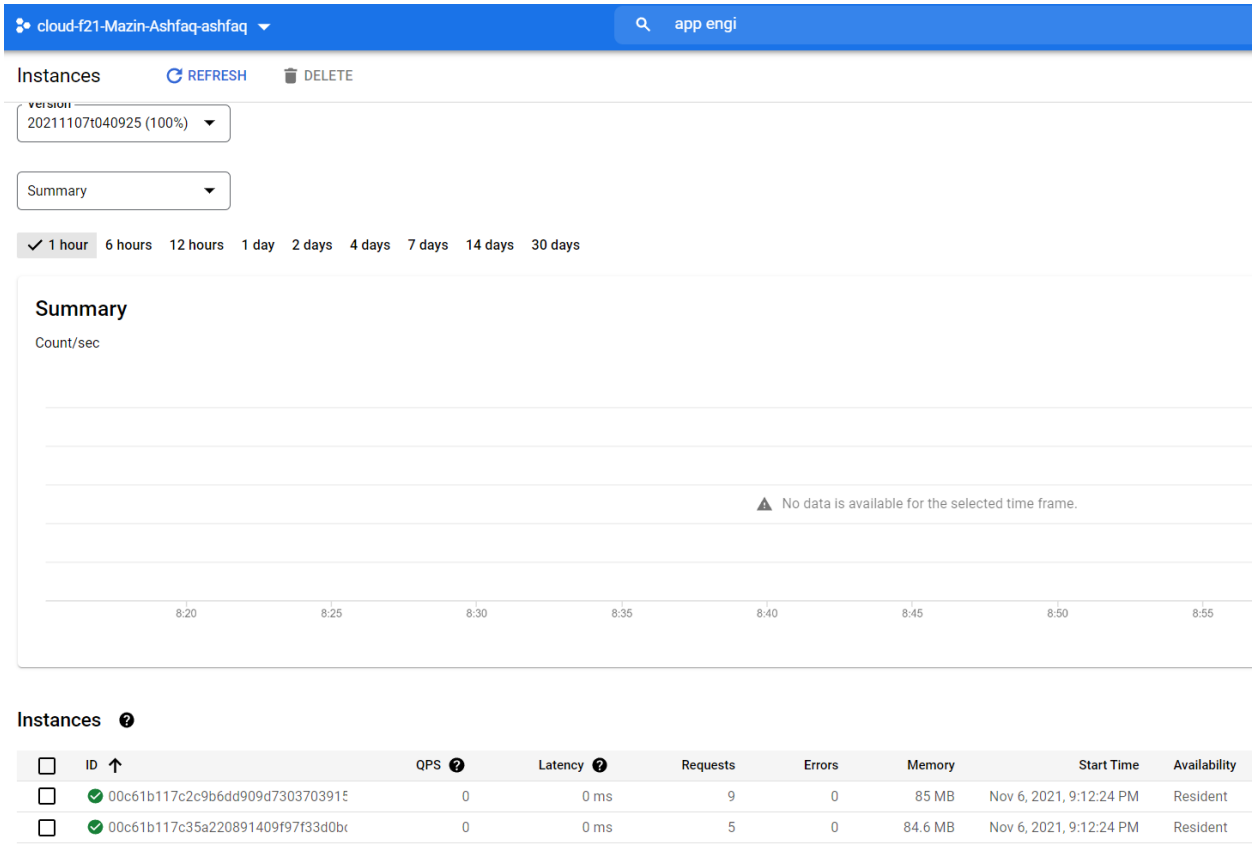
4. Deploying the Guestbook

- Take a screenshot of the output that includes the URL in the address bar for your lab notebook.



5. Handling failures seamlessly

- Take a screenshot of them.



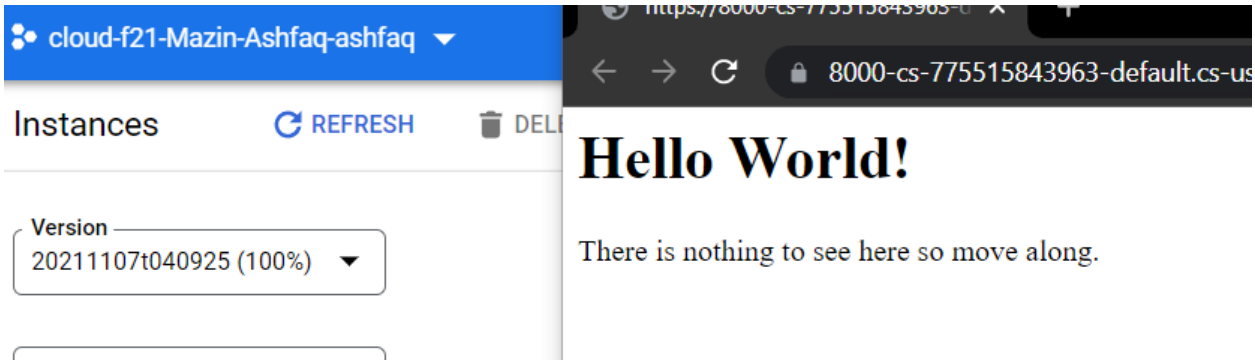
Instances

ID	QPS	Latency	Requests	Errors	Memory	Start Time	Availability
00c61b117c2c9b6dd909d730370391	0	0 ms	9	0	85 MB	Nov 6, 2021, 9:12:24 PM	Resident
00c61b117c35a220891409f97f33d0b	0	0 ms	5	0	84.6 MB	Nov 6, 2021, 9:12:24 PM	Resident

06.2g: Cloud Run (Web proxy)

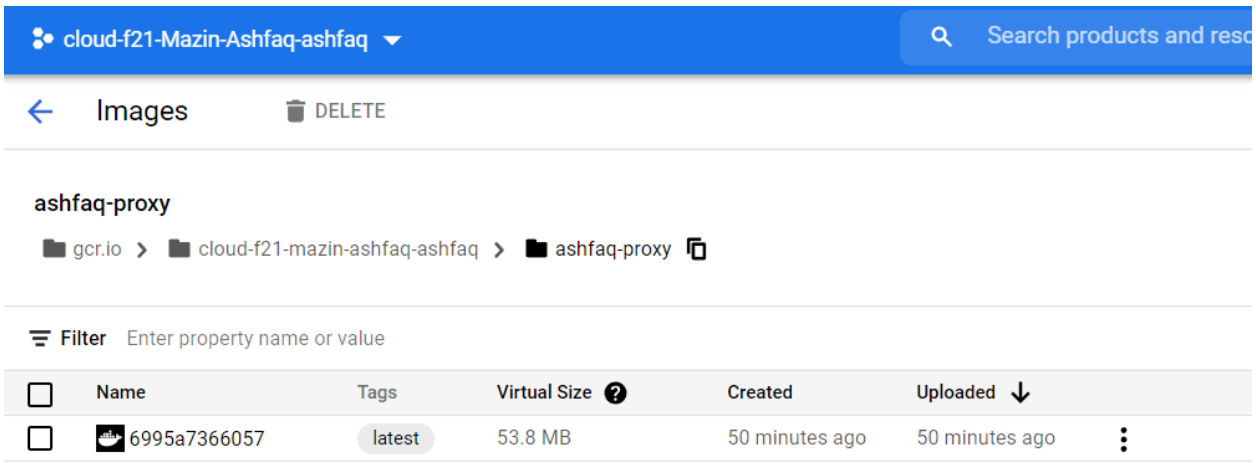
7. Build and test in Cloud Shell

- Show the container and application has been brought up successfully.



8. Cloud Build and Container Registry

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



10. Visit the site

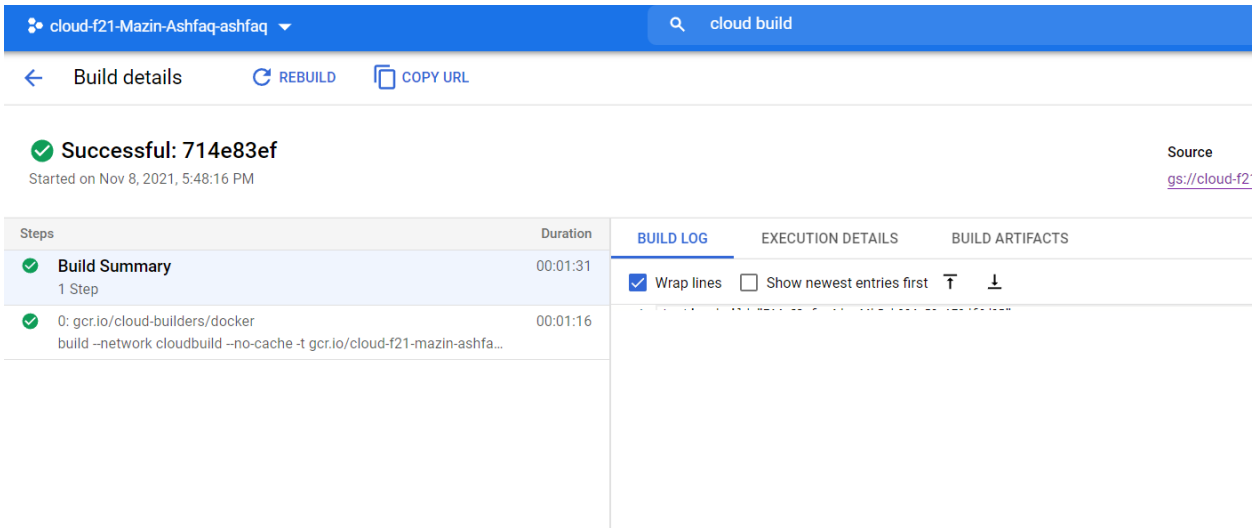
- Identify the vulnerability in your lab notebook that Google has prevented.

Google Prevented an SSRF attack.

06.3g: Cloud Run Guestbook

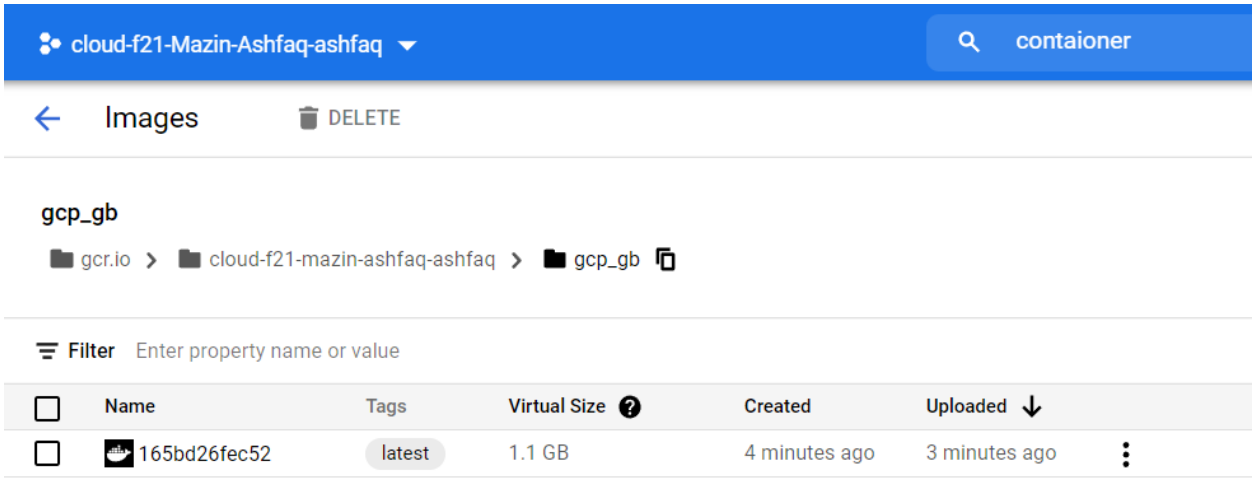
2. Prepare a container image

- Take a screenshot that includes the output of the command and the time it took to execute.



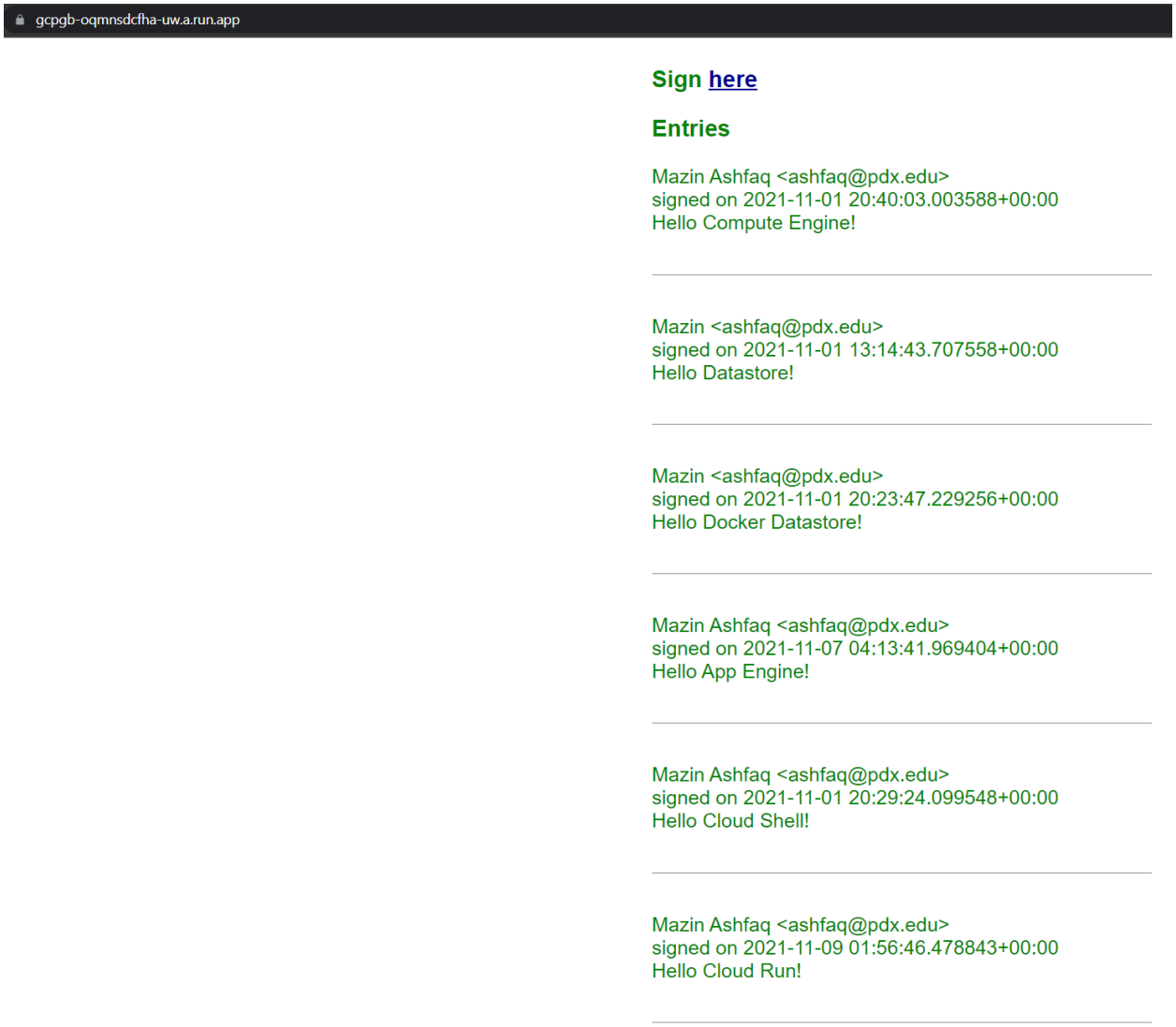
Build Log screen is broken for some reason.

- Take a screenshot showing the container image and its virtual size



4. View the Guestbook

- Take a screenshot that includes the URL Cloud Run has created for your site.



- What port do container instances listen on?

  8080

- What are the maximum number of instances Cloud Run will autoscale up to for your service?

  100

06.4g: Cloud Functions (Image blurring)

4. -

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

  temp_local_filename

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

  Image class

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

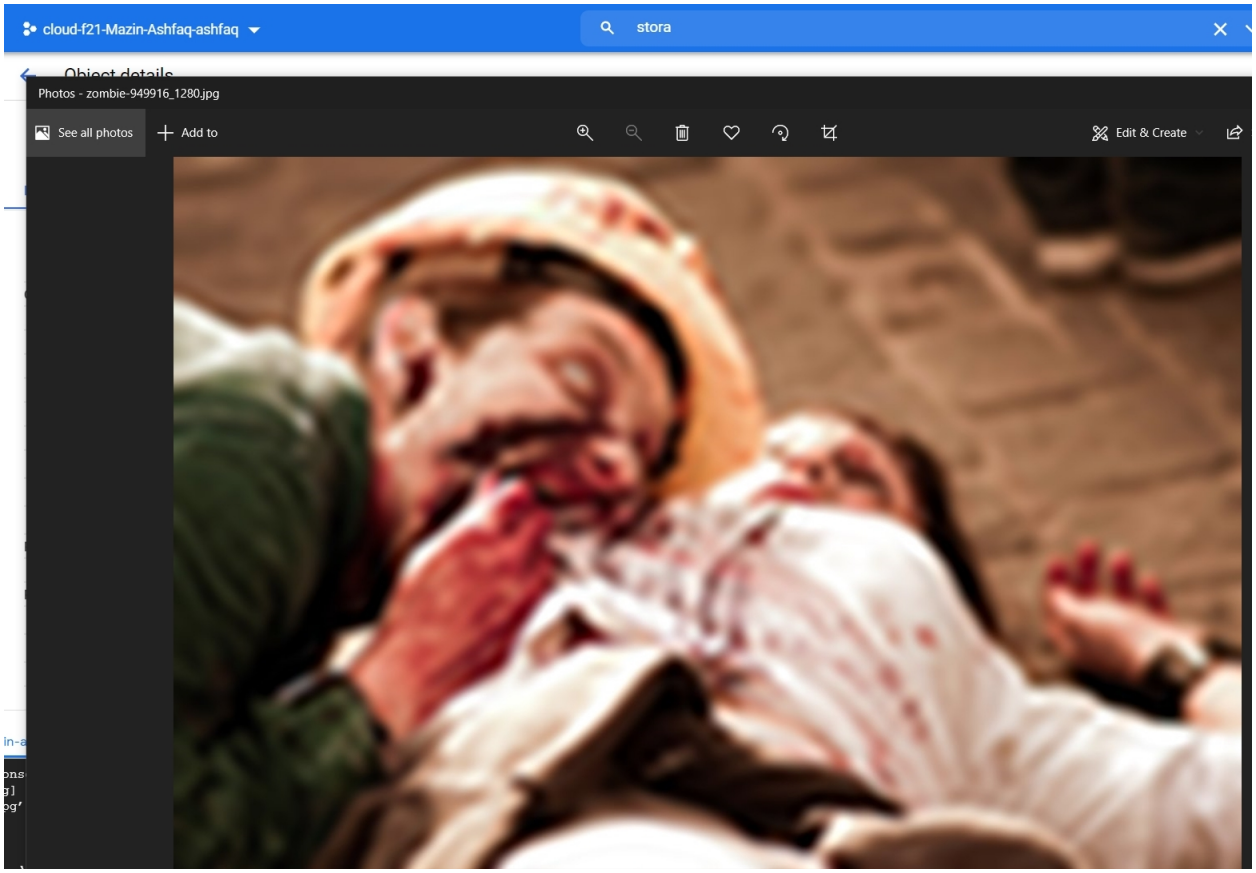
```
    # Blur the image using ImageMagick.
    with Image(filename=temp_local_filename) as image:
        image.resize(*image.size, blur=16, filter="hamming")
        image.save(filename=temp_local_filename)

    print(f"Image {file_name} was blurred.")

    # Upload result to a second bucket, to avoid re-triggering the function.
    # You could instead re-upload it to the same bucket + tell your function
    # to ignore files marked as blurred (e.g. those with a "blurred" prefix)
    blur_bucket_name = os.getenv("BLURRED_BUCKET_NAME")
    blur_bucket = storage_client.bucket(blur_bucket_name)
    new_blob = blur_bucket.blob(file_name)
    new_blob.upload_from_filename(temp_local_filename)
    print(f"Blurred image uploaded to: gs://{blur_bucket_name}/{file_name}")
```

7. Test function

- Verify that at least one image has been blurred by taking a screenshot of it in the output bucket and including it in your lab notebook



- Include a screenshot of the output logs that show that the above image was blurred.

```
LEVEL: D
NAME: blur_offensive_images
EXECUTION_ID: f8ab25mkb91m
TIME_UTC: 2021-11-09 02:27:08.405
LOG: Function execution took 15504 ms, finished with status: 'ok'

LEVEL: I
NAME: blur_offensive_images
EXECUTION_ID: f8ab25mkb91m
TIME_UTC: 2021-11-09 02:27:08.403
LOG: Blurred image uploaded to: gs://blurlab2/zombie-949916_1280.jpg

LEVEL: I
NAME: blur_offensive_images
EXECUTION_ID: f8ab25mkb91m
TIME_UTC: 2021-11-09 02:27:08.265
LOG: Image zombie-949916_1280.jpg was blurred.

LEVEL: I
NAME: blur_offensive_images
EXECUTION_ID: f8ab25mkb91m
TIME_UTC: 2021-11-09 02:26:53.907
LOG: Image zombie-949916_1280.jpg was downloaded to /tmp/tmpb516oc0n.

LEVEL: I
NAME: blur_offensive_images
EXECUTION_ID: f8ab25mkb91m
TIME_UTC: 2021-11-09 02:26:53.801
LOG: The image zombie-949916_1280.jpg was detected as inappropriate.

LEVEL: I
NAME: blur_offensive_images
EXECUTION_ID: f8ab25mkb91m
TIME_UTC: 2021-11-09 02:26:53.281
LOG: Analyzing zombie-949916_1280.jpg.

LEVEL: D
NAME: blur_offensive_images
EXECUTION_ID: f8ab25mkb91m
TIME_UTC: 2021-11-09 02:26:52.903
LOG: Function execution started
ashfaq@cloudshell:~/cs430-src/05_gcp_datastore/python-docs-samples/functions/
```