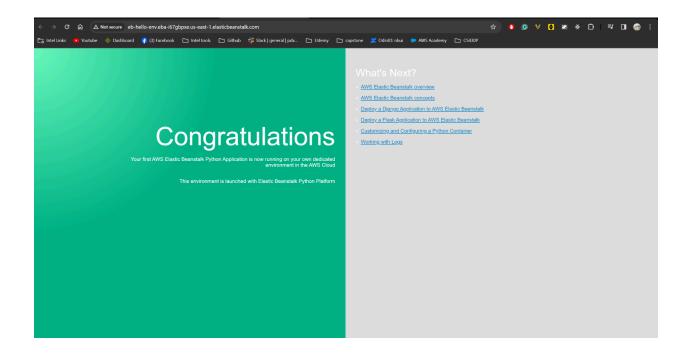
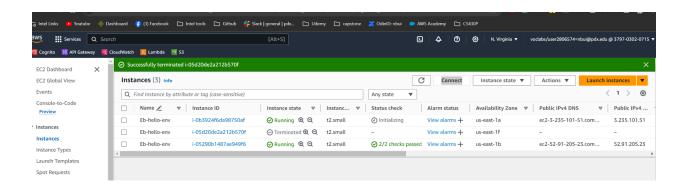
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Lab 06.1a

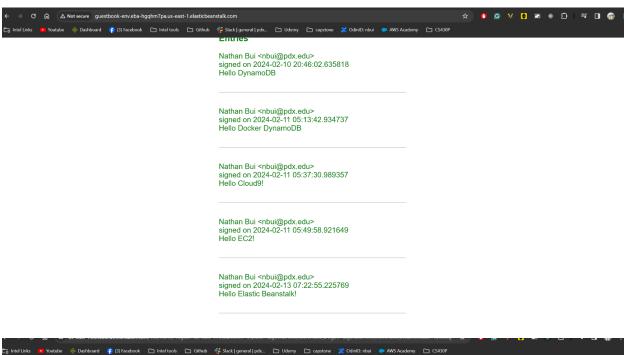
3. Running the application

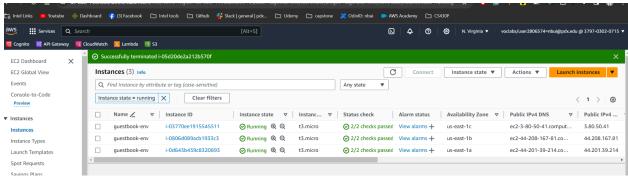


4. Handling failures seamlessly



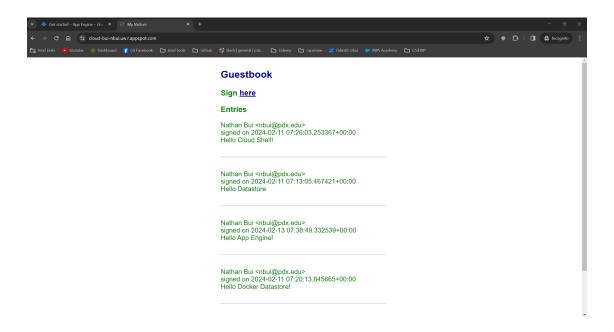
7. Deploying the Guestbook



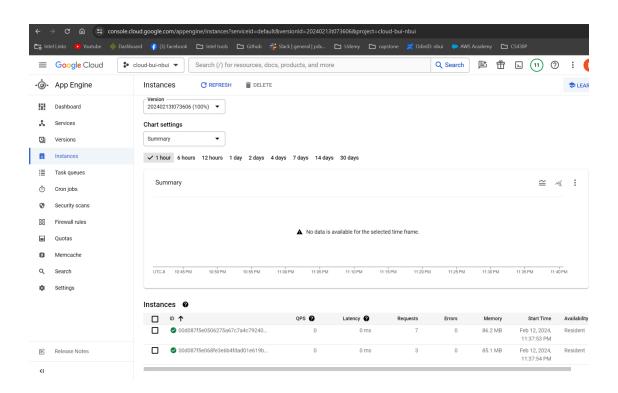


Lab 06.1g

3. Deploying the Guestbook



4. Handling failures seamlessly



Lab 06.2g

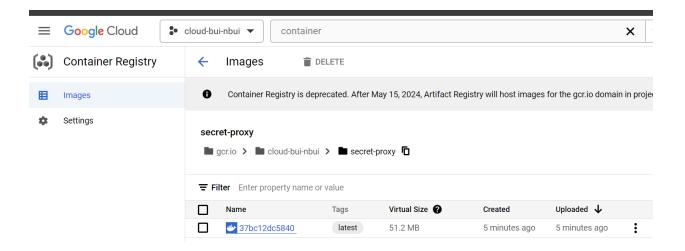
8. Setup secret proxy

Take a screenshot of the proxy and its results including the URL containing your OdinID



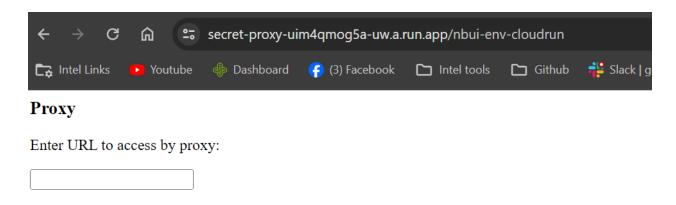
- What is the security advantage of passing in the secret proxy route as an environment variable?
 - Ensure that the secret is not hardcoded into the code so it can't be exploited. It helps to separate the secret information and the application in the same place.
 - Provide the flexibility to change/update the secret

9. Cloud Build and Container Registry

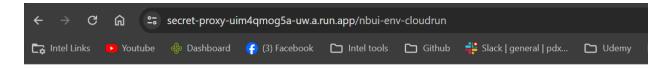


10. Deploy to Cloud Run

Take a screenshot of it that includes the proxy URL for your lab notebook.



Take a screenshot of the error page that includes the proxy URL for your lab notebook.

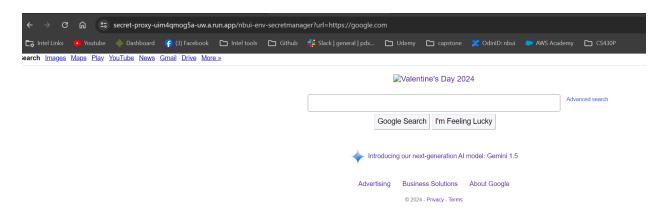


Not Found

The requested URL was not found on the server. If you entered the URL manually please check your spelling and try again.

12. Deploy to Cloud Run with Secret Manager

Take a screenshot of it that includes the proxy URL for your lab notebook.

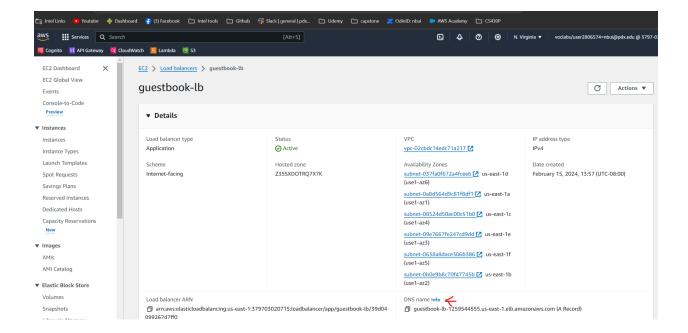


- Identify the vulnerability in your lab notebook that Google has prevented.
 - SSRF attack with Metadata endpoint bug when trying to access unauthorized resources within the platform/provider infrastructure

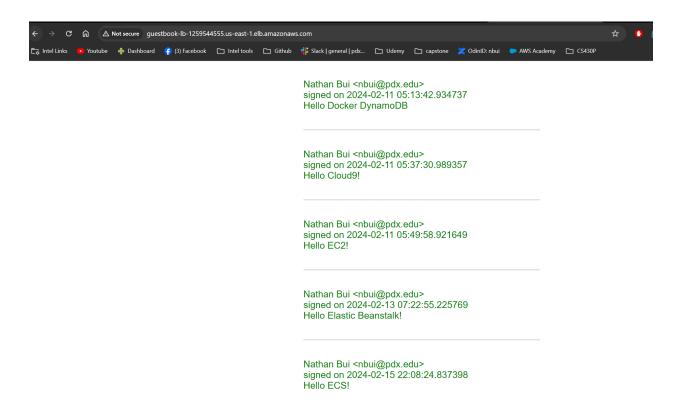
Lab 06.3a

5. Examine the service

• Take a screenshot of the DNS name of the guestbook-lb load balancer for your lab notebook

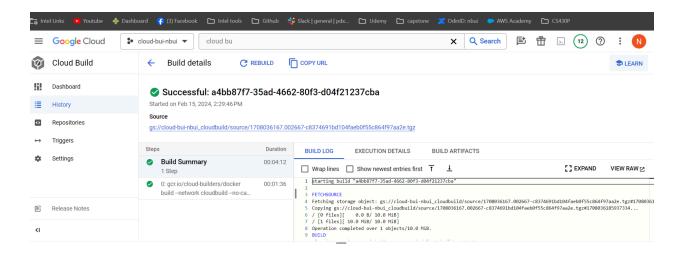


6. Visit the site

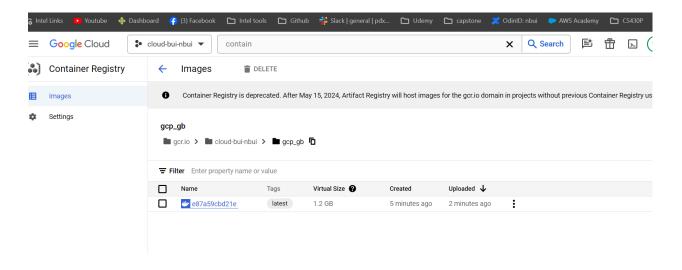


Lab 06.3g

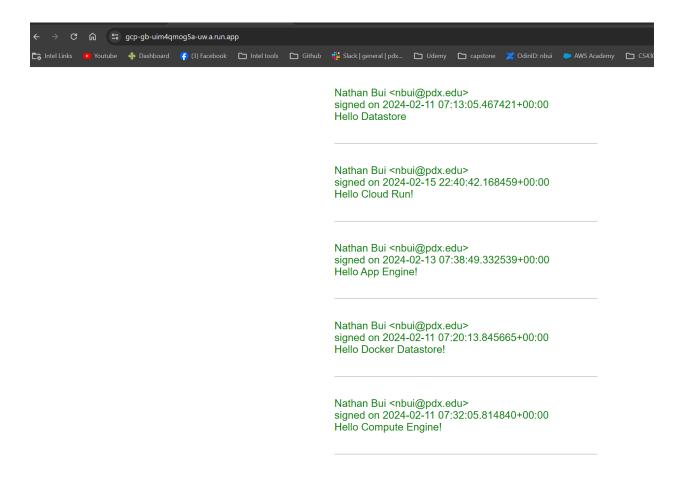
2. Prepare a container image



3. View container image



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 for your service?
 100

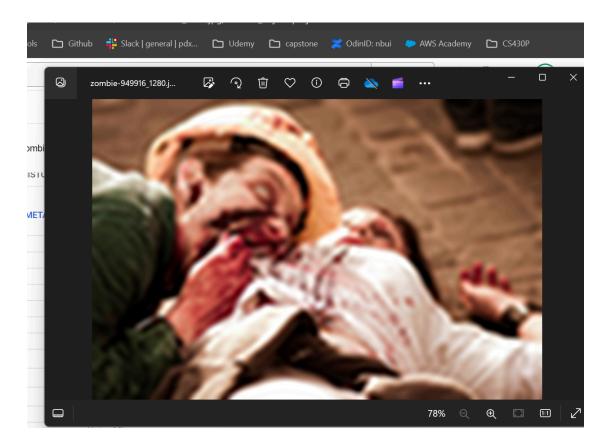
Lab 06.4g

4. -

- After downloading the file from the bucket, where is it stored?
 - The output bucket we created (its name would be saved in BLURRED_BUCKET_NAME env variable)
- What class in the ImageMagick package is used to do the blurring of the file?
 - o wand.image.lmage
- What lines of code perform the blurring of the image and its storage back into the filesystem?
 - Line 71-73 (resize and save the blurred image)

7. Test function

• Take a screenshot of the blurred image in the output bucket for your lab notebook



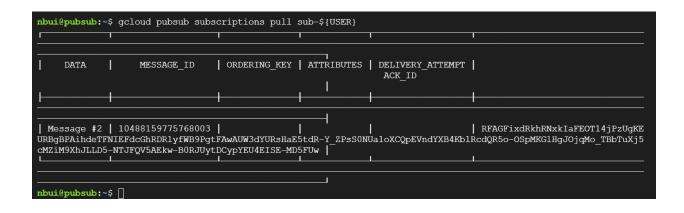
Include a screenshot of the output logs that show that the above image was blurred.

```
Operation completed over 1 objects/353.0 KiB.
nbui@cloudshell:~/python-docs-samples/functions/imagemagick (cloud-bui-nbui)$ gcloud functions logs read
LEVEL: D
NAME: blur offensive images
EXECUTION_ID: x4d1tbtxkwud
TIME UTC: 2024-02-15 23:10:17.122
LOG: Function execution took 11641 ms, finished with status: 'ok'
LEVEL: I
NAME: blur_offensive_images
EXECUTION_ID: x4dltbtxkwud
TIME UTC: 2024-02-15 23:10:17.119
LOG:
LEVEL: I
NAME: blur offensive images
EXECUTION_ID: x4d1tbtxkwud
TIME_UTC: 2024-02-15 23:10:17.119
LOG: Blurred image uploaded to: gs://cs430-nbui-2/zombie-949916 1280.jpg
LEVEL: I
NAME: blur offensive images
EXECUTION ID: x4d1tbtxkwud
TIME_UTC: 2024-02-15 23:10:16.982
```

11. PubSub via CLI

- Why are there no items returned?
 - Cause the message was published before the topic had any subscribers. Hence the message could be considered as delivered and was deleted.

12. -



15. Test programs and clean up

Take a screenshot showing the messageIds and messages sent

```
(env) nbui@cloudshell:~/python-docs-samples/functions/imagemagick (cloud-bui-nbui)$ python3 publisher.py Enter a message to send: this is the first testing
Published 10487998314512771 to topic projects/cloud-bui-nbui/topics/my_topic
Enter a message to send: this is the 2nd message
Published 10488309512140452 to topic projects/cloud-bui-nbui/topics/my_topic
Enter a message to send: this is the 3rd message
Published 10488223981020428 to topic projects/cloud-bui-nbui/topics/my_topic
Enter a message to send:
```

Take a screenshot showing the same messagelds and messages received

```
(env) nbui@pubsub:~$ python3 subscriber.py
Using subscription previously created...
Received message 10487998314512771: 2024-02-15 23:49:09 (projects/cloud-bui-nbui/topics/my_topic) : this is the first testing
Received message 10488309512140452: 2024-02-15 23:49:34 (projects/cloud-bui-nbui/topics/my_topic) : this is the 2nd message
Received message 10488223981020428: 2024-02-15 23:49:46 (projects/cloud-bui-nbui/topics/my_topic) : this is the 3rd message
```