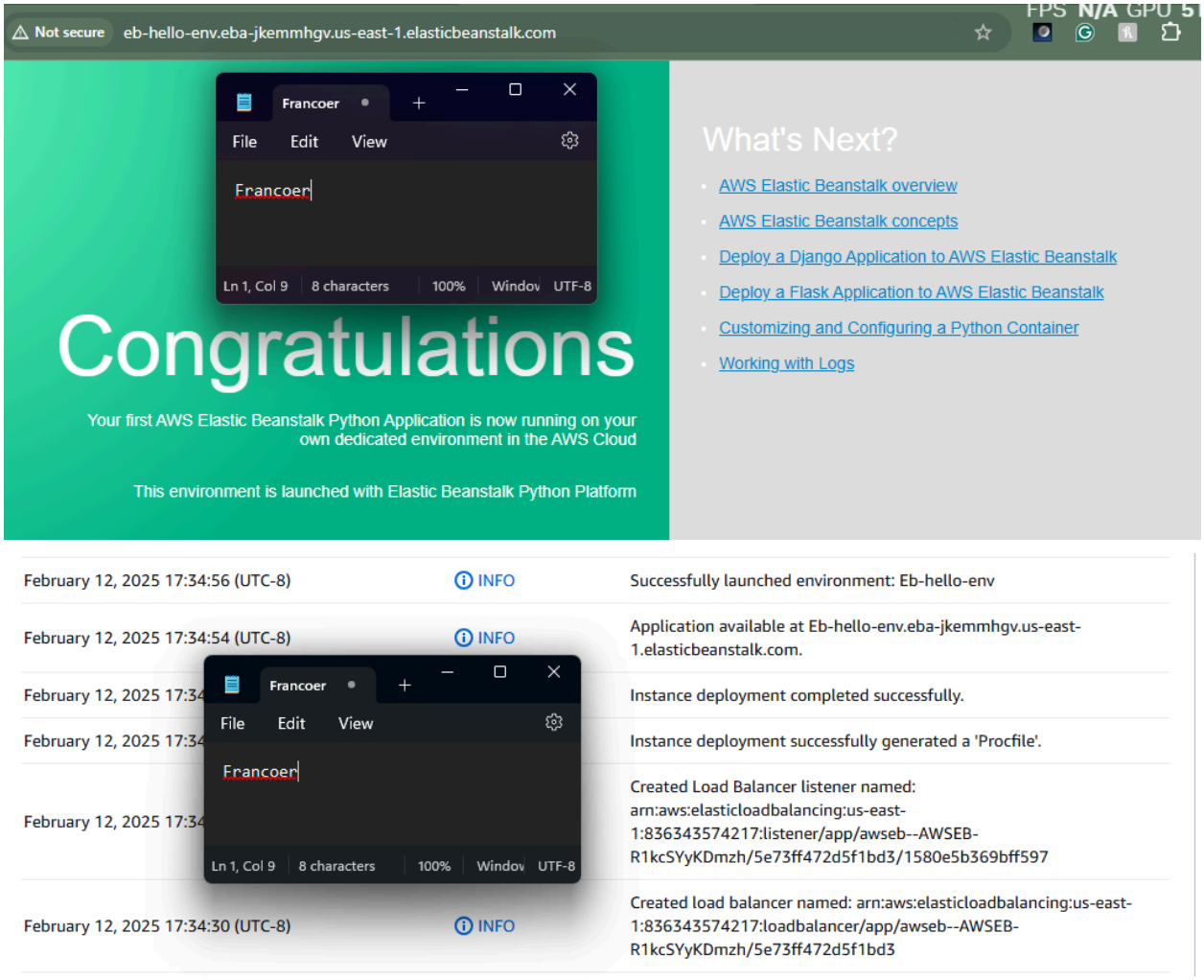
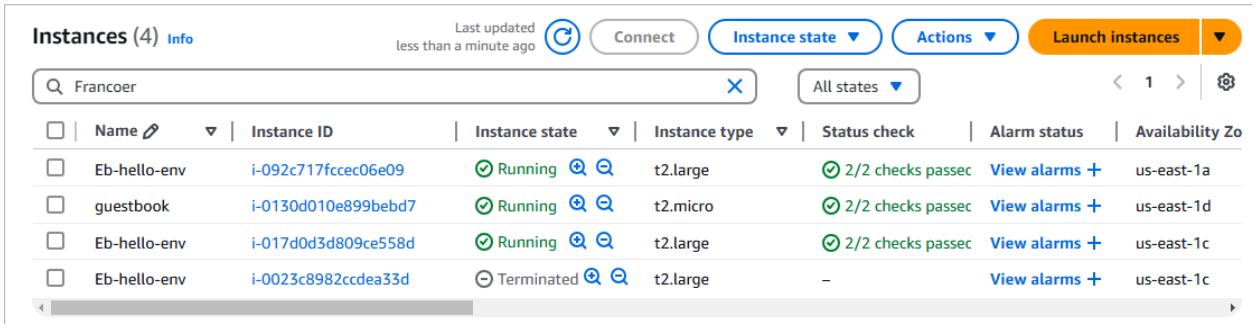
06.1a.3 EB **2**
06.1a.4 EB **2**
06.1a.7 EB **3**
06.1g.3 ..... **4**
06.1g.4 ..... **5**
06.2g.8 ..... **5**
06.2g.10 ..... **6**
06.2g.11 ..... **6**
06.2g.13 ..... **7**
06.3a.1 ..... **8**
06.3a.5 ..... **8**
06.3a.6 ..... **9**
06.3g.2 ..... **10**
06.3g.4 ..... **11**
06.4g.4 ..... **12**
06.4g.7 ..... **12**
06.4g.11 ..... **13**
06.4g.12 ..... **14**
06.4g.15 ..... **14**

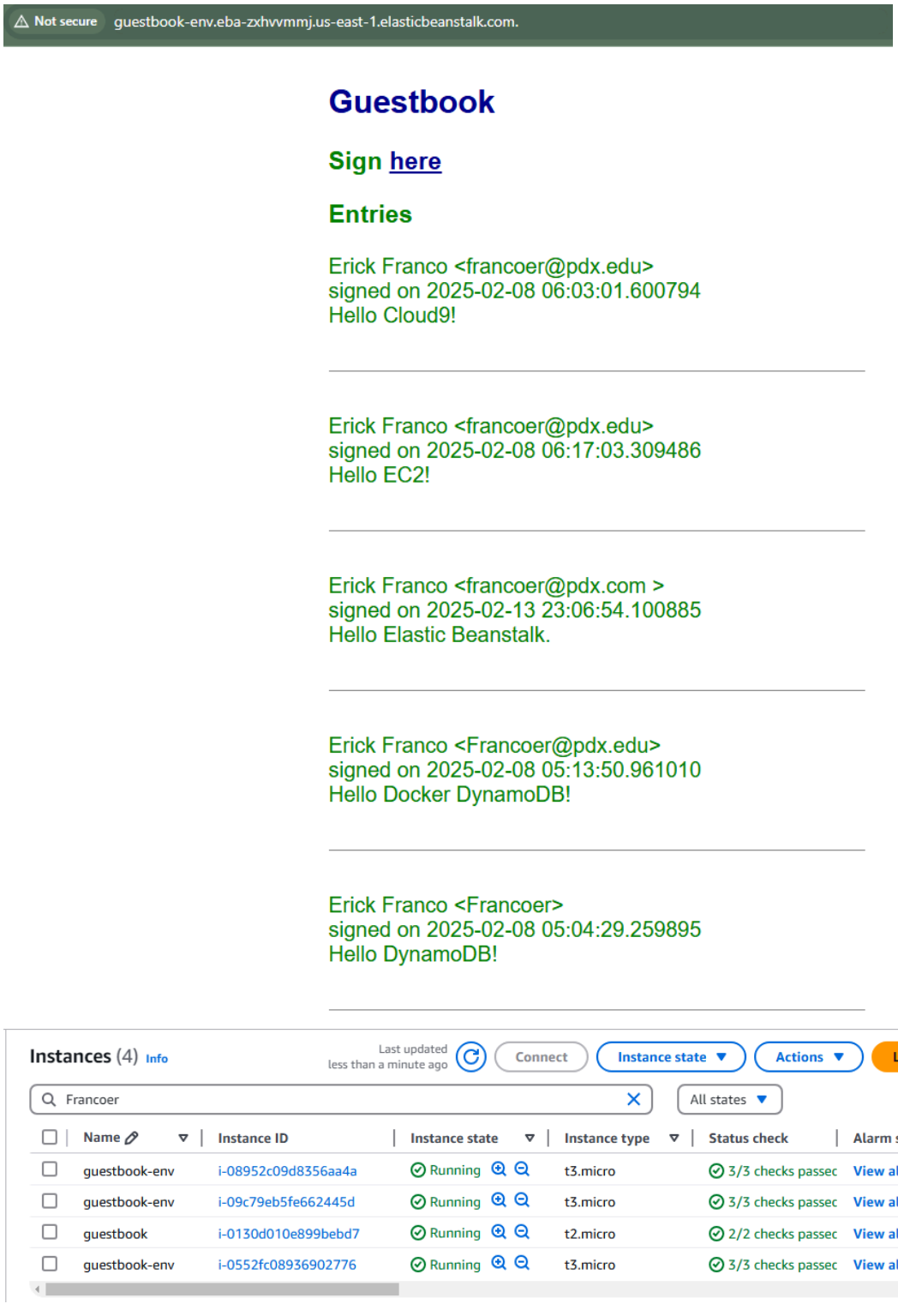
06.1a.3 EB



06.1a.4 EB



06.1a.7 EB


Not secure
guestbook-env.eba-zxhvvmmj.us-east-1.elasticbeanstalk.com.
Guestbook
Sign here
Entries
Erick Franco <francoer@pdx.edu>
signed on 2025-02-08 06:03:01.600794
Hello Cloud9!
Erick Franco <francoer@pdx.edu>
signed on 2025-02-08 06:17:03.309486
Hello EC2!
Erick Franco <francoer@pdx.com >
signed on 2025-02-13 23:06:54.100885
Hello Elastic Beanstalk.
Erick Franco <Francoer@pdx.edu>
signed on 2025-02-08 05:13:50.961010
Hello Docker DynamoDB!
Erick Franco <Francoer>
signed on 2025-02-08 05:04:29.259895
Hello DynamoDB!
Instances (4) Info
Last updated less than a minute ago
Connect
Instance state
Actions
Launch instances
Francoer
All states
1
Name
Instance ID
Instance state
Instance type
Status check
Alarm status
Availability
guestbook-env i-08952c09d8356aa4a Running t3.micro 3/3 checks passec View alarms + us-east-1b
guestbook-env i-09c79eb5fe662445d Running t3.micro 3/3 checks passec View alarms + us-east-1a
guestbook i-0130d010e899bebd7 Running t2.micro 2/2 checks passec View alarms + us-east-1d
guestbook-env i-0552fc08936902776 Running t3.micro 3/3 checks passec View alarms + us-east-1c

06.1g.3

Guestbook

Sign here

Entries

Erick Franco <francoer@pdx.edu>
signed on 2025-02-08 07:56:33.776285+00:00
Hello Cloud Shell!

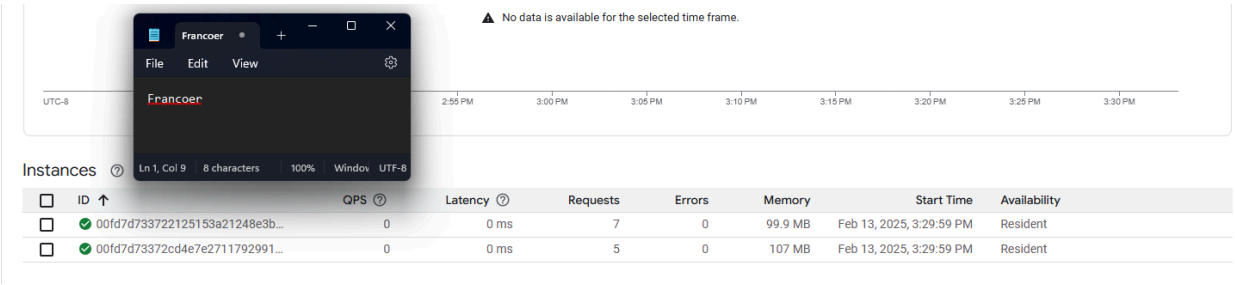
Erick Franco <francoer@pdx.edu>
signed on 2025-02-08 07:07:36.379017+00:00
Hello Datastore!

Erick Franco <francoer@pdx.com>
signed on 2025-02-13 23:31:15.362181+00:00
Hello App Engine!

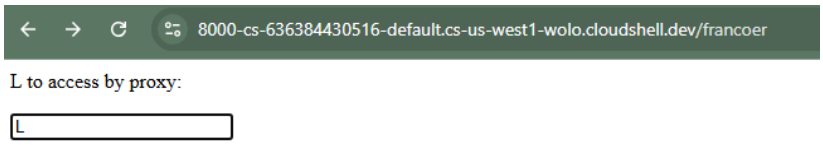
Erick Franco <francoer@pdx.edu>
signed on 2025-02-08 08:05:50.107646+00:00
Hello Computer Engine!

Erick Franco <francoer@pdx.edu>
signed on 2025-02-08 07:39:47.408752+00:00
Hello Docker Datastore!

06.1g.4



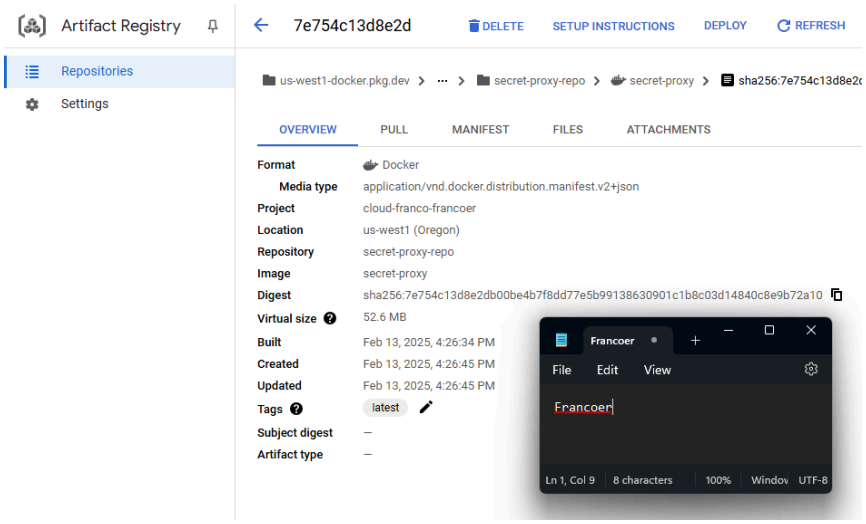
06.2g.8



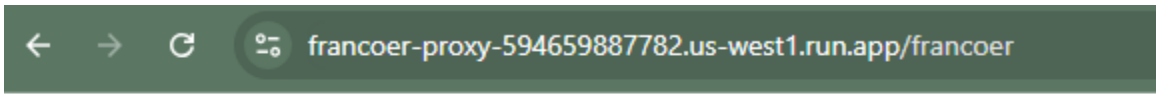
What is the security advantage of passing in the secret proxy route as an environment variable?

- It keeps it separate from the code base, which means any secrets or things that are not meant for the public are not hardcoded in.

06.2g.10



06.2g.11

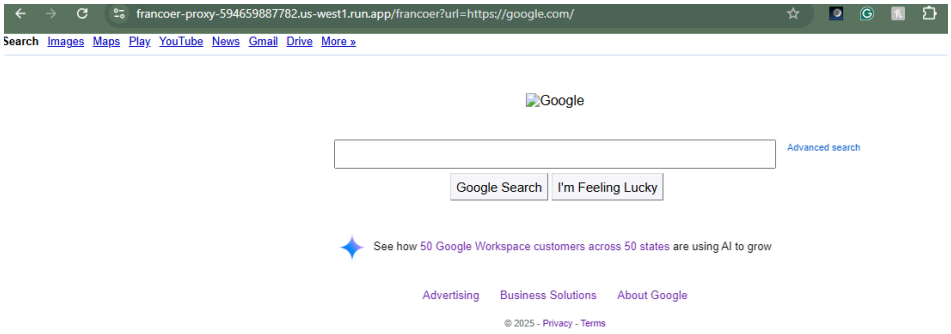


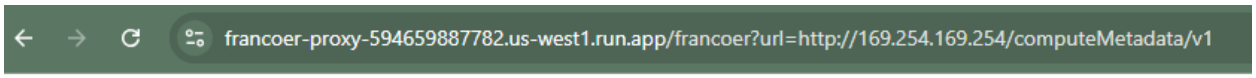
L to access by proxy:

Not Found

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

06.2g.13

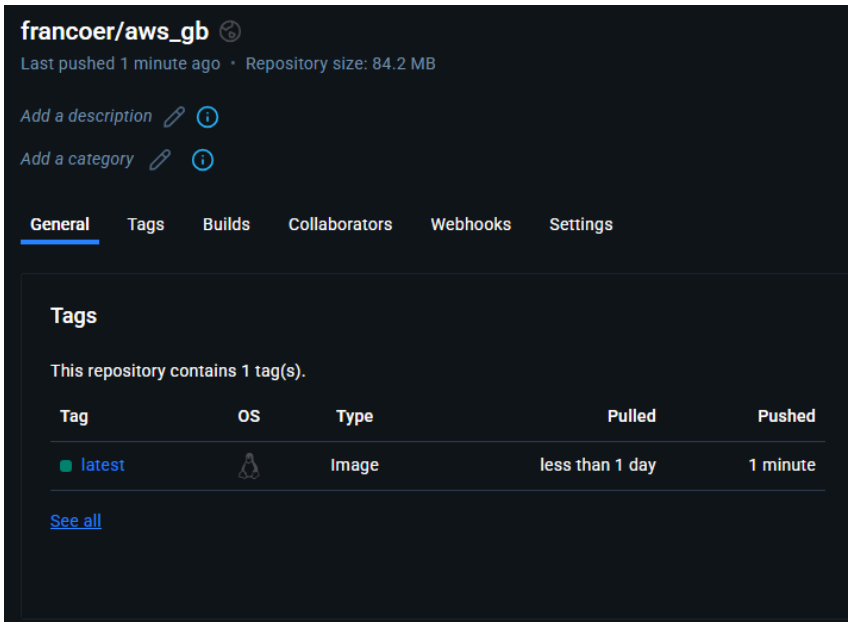




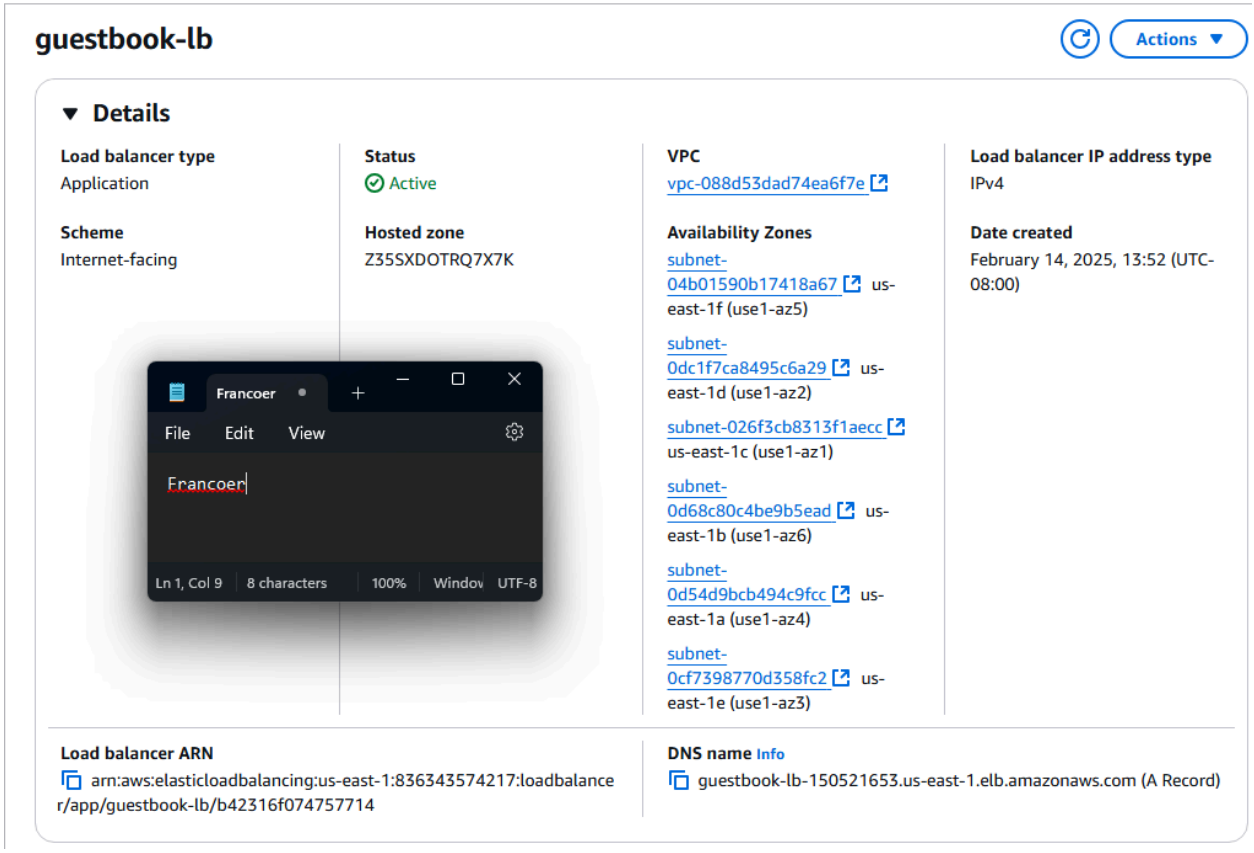
Missing required header: Metadata-Flavor

- Identify the vulnerability in your lab notebook that Google has prevented.
    - The metadata server requires the metadata-flavor: Google header for all requests so it stopped the metadata from being accessed

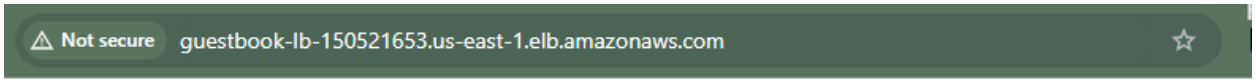
06.3a.1



06.3a.5


guestbook-lb
Actions
Details
Load balancer type
Application
Status
Active
VPC
vpc-088d53dad74ea6f7e
Load balancer IP address type
IPv4
Scheme
Internet-facing
Hosted zone
Z35SXDOTRQ7X7K
Availability Zones
subnet-04b01590b17418a67 us-east-1f (use1-az5)
subnet-0dc1f7ca8495c6a29 us-east-1d (use1-az2)
subnet-026f3cb8313f1aecc us-east-1c (use1-az1)
subnet-0d68c80c4be9b5ead us-east-1b (use1-az6)
subnet-0d54d9bcb494c9fcc us-east-1a (use1-az4)
subnet-0cf7398770d358fc2 us-east-1e (use1-az3)
Date created
February 14, 2025, 13:52 (UTC-08:00)
Francoer
File
Edit
View
Francoer
Ln 1, Col 9
8 characters
100%
Windov
UTF-8
Load balancer ARN
arn:aws:elasticloadbalancing:us-east-1:836343574217:loadbalancer/app/guestbook-lb/b42316f074757714
DNS name Info
guestbook-lb-150521653.us-east-1.elb.amazonaws.com (A Record)

06.3a.6



Guestbook

Sign here

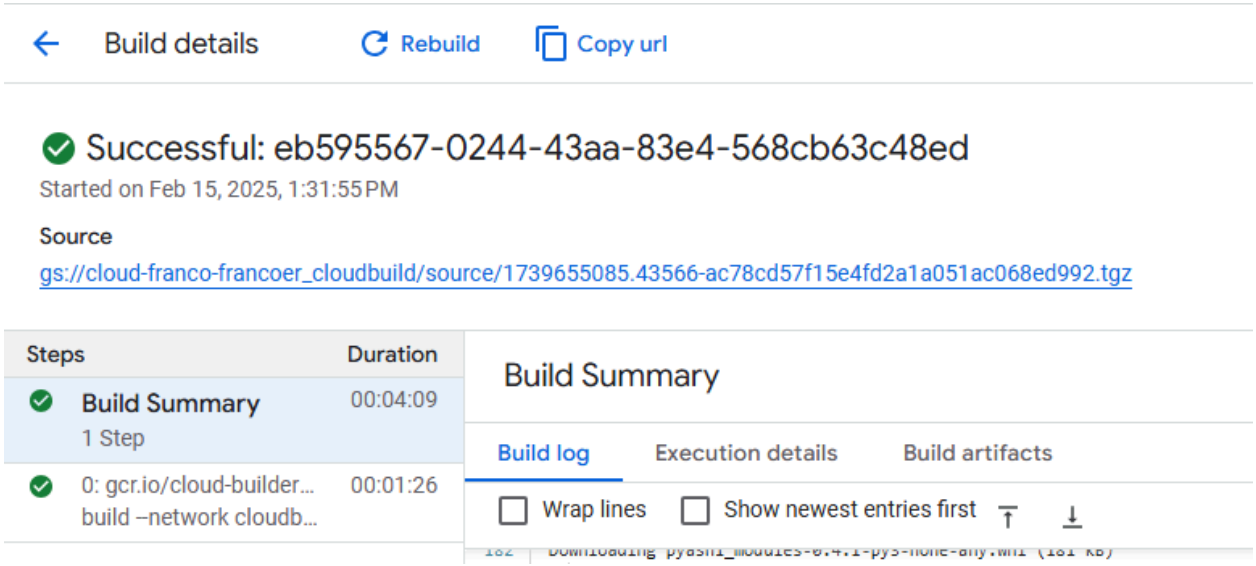
Entries

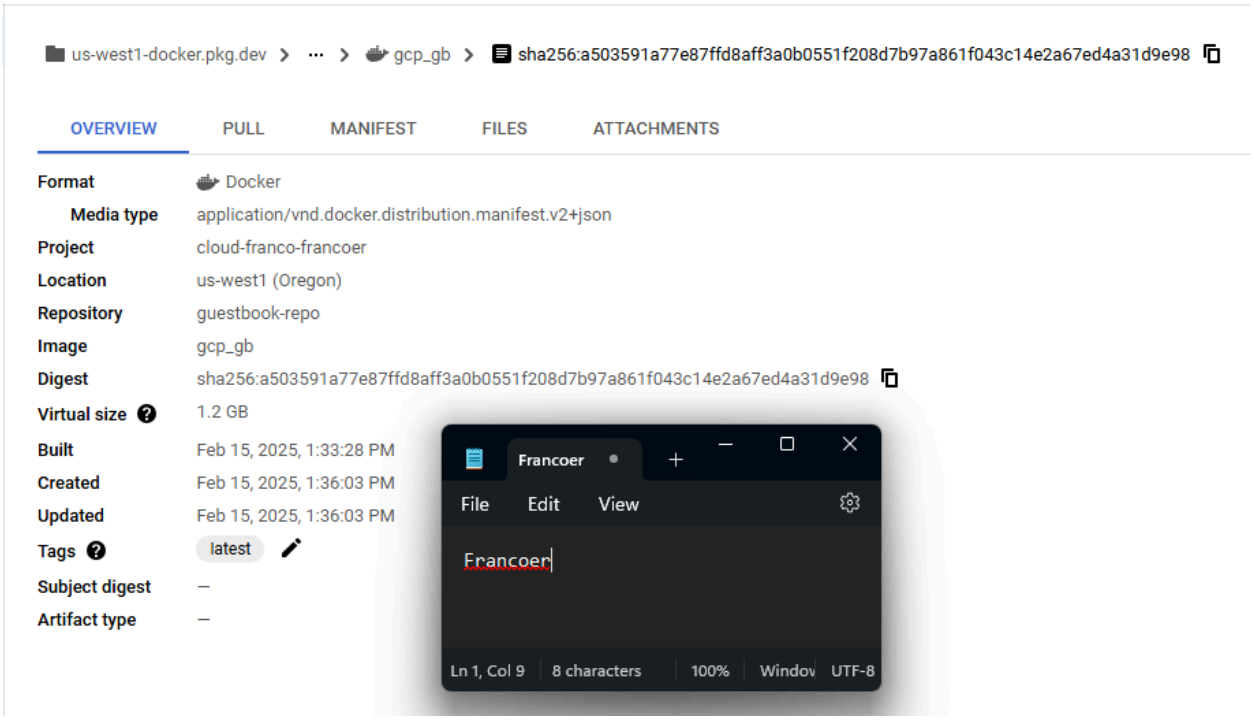
Erick Franco <francoer@pdx.edu>
signed on 2025-02-08 06:03:01.600794
Hello Cloud9!

Erick Franco <francoer@pdx.edu>
signed on 2025-02-08 06:17:03.309486
Hello EC2!

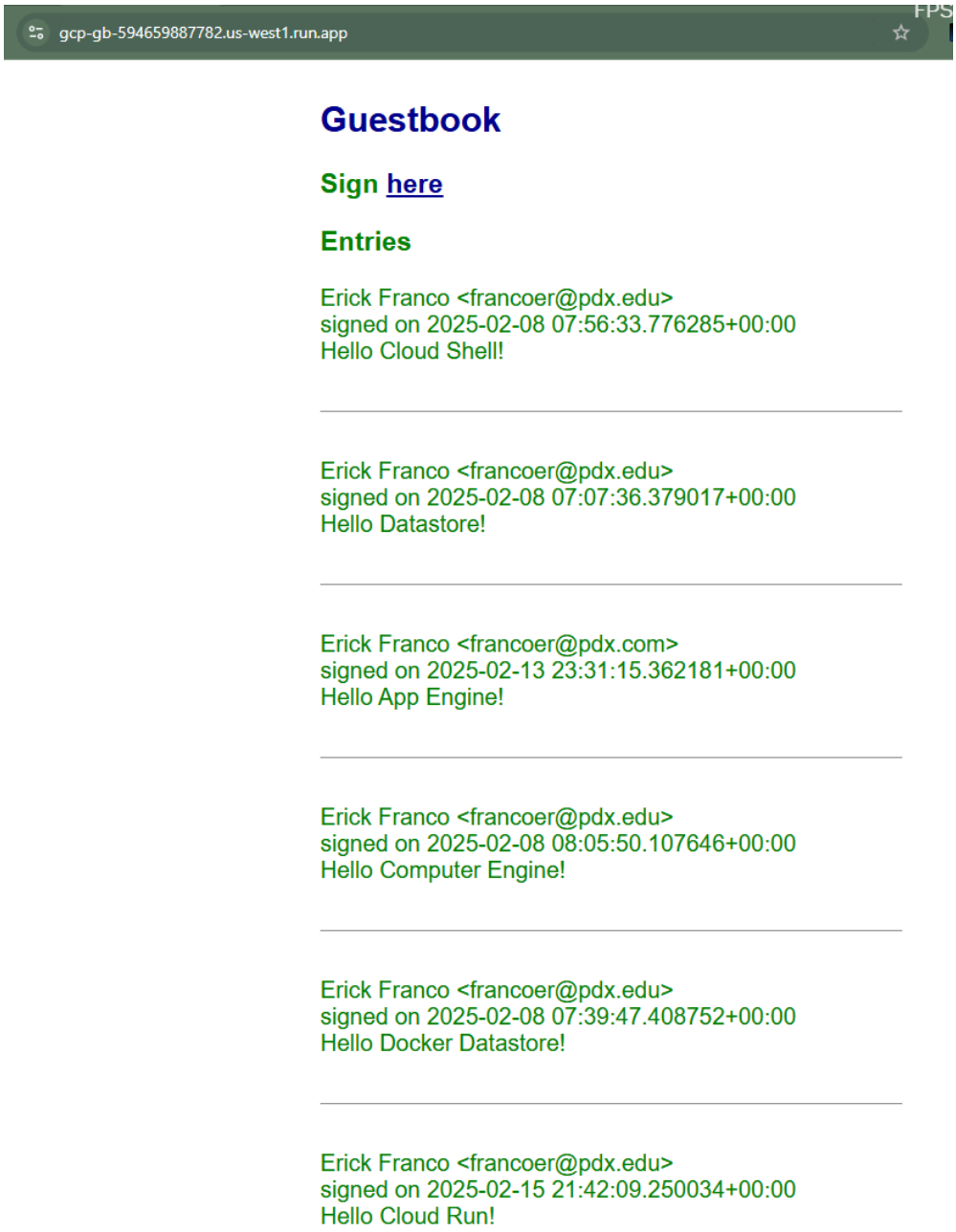
Erick Franco <francoer@pdx.edu>
signed on 2025-02-14 21:58:31.347520
Hello ECS!

06.3g.2


Build details
Rebuild
Copy url
Successful: eb595567-0244-43aa-83e4-568cb63c48ed
Started on Feb 15, 2025, 1:31:55 PM
Source
gs://cloud-franco-francoer_cloudbuild/source/1739655085.43566-ac78cd57f15e4fd2a1a051ac068ed992.tgz
Steps
Duration
Build Summary
1 Step
00:04:09
0: gcr.io/cloud-builder...
build --network cloudb...
00:01:26
Build Summary
Build log
Execution details
Build artifacts
Wrap lines
Show newest entries first


us-west1-docker.pkg.dev
gcp_gb
sha256:a503591a77e87ffd8aff3a0b0551f208d7b97a861f043c14e2a67ed4a31d9e98
OVERVIEW
PULL
MANIFEST
FILES
ATTACHMENTS
Format
Docker
Media type
application/vnd.docker.distribution.manifest.v2+json
Project
cloud-franco-francoer
Location
us-west1 (Oregon)
Repository
guestbook-repo
Image
gcp_gb
Digest
sha256:a503591a77e87ffd8aff3a0b0551f208d7b97a861f043c14e2a67ed4a31d9e98
Virtual size
1.2 GB
Built
Feb 15, 2025, 1:33:28 PM
Created
Feb 15, 2025, 1:36:03 PM
Updated
Feb 15, 2025, 1:36:03 PM
Tags
latest
Subject digest
–
Artifact type
–
Francoer
File
Edit
View
Francoer
Ln 1, Col 9
8 characters
100%
Windov
UTF-8

06.3g.4



- 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.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?
    - wand.image
- What lines of code perform the blurring of the image and its storage back into the filesystem?
    - 76 & 77
    - `image.resize(*image.size, blur=16, filter="hamming")`
    - `image.save(filename=temp_local_filename)`

06.4g.7

```
francoer@cloudshell:~/python-docs-samples/functions/v2/imagemagick (cloud-franco-francoer)$ gcloud beta functions logs read python-blur-function --region=us-w
est1 --gen2 --limit=100
LEVEL:
NAME: python-blur-function
EXECUTION_ID:
TIME_UTC: 2025-02-17 07:00:12.408
LOG: E0000 00:00:1739775612.405329       1 init.cc:232] grpc_wait_for_shutdown_with_timeout() timed out.

LEVEL:
NAME: python-blur-function
EXECUTION_ID:
TIME_UTC: 2025-02-17 07:00:12.408
LOG: WARNING: All log messages before absl::InitializeLog() is called are written to STDERR

LEVEL:
NAME: python-blur-function
EXECUTION_ID:
TIME_UTC: 2025-02-17 07:00:10.161
LOG: E0000 00:00:1739775610.161438      64 init.cc:232] grpc_wait_for_shutdown_with_timeout() timed out.

LEVEL:
NAME: python-blur-function
EXECUTION_ID:
TIME_UTC: 2025-02-17 07:00:10.161
LOG: WARNING: All log messages before absl::InitializeLog() is called are written to STDERR

LEVEL: I
NAME: python-blur-function
EXECUTION_ID:
TIME_UTC: 2025-02-17 06:58:32.513
LOG: Default STARTUP TCP probe succeeded after 1 attempt for container "worker" on port 8080.

LEVEL:
NAME: python-blur-function
EXECUTION_ID: jvv2NX9sLMU6
TIME_UTC: 2025-02-17 06:55:09.615
LOG: Blurred image uploaded to: gs://francoer-output/zombie.jpg

LEVEL:
NAME: python-blur-function
EXECUTION_ID: jvv2NX9sLMU6
TIME_UTC: 2025-02-17 06:55:09.451
LOG: Image zombie.jpg was blurred.

LEVEL:
NAME: python-blur-function
EXECUTION_ID: jvv2NX9sLMU6
TIME_UTC: 2025-02-17 06:55:05.781
LOG: Image zombie.jpg was downloaded to /tmp/tmpzpxop4xq.

LEVEL:
NAME: python-blur-function
EXECUTION_ID: jvv2NX9sLMU6
TIME_UTC: 2025-02-17 06:55:05.645
LOG: The image zombie.jpg was detected as inappropriate.

LEVEL:
NAME: python-blur-function
EXECUTION_ID: jvv2NX9sLMU6
TIME_UTC: 2025-02-17 06:55:05.211
LOG: Analyzing zombie.jpg.

LEVEL: I
NAME: python-blur-function
EXECUTION_ID:
TIME_UTC: 2025-02-17 06:55:04.857
LOG:

LEVEL: I
NAME: python-blur-function
EXECUTION_ID:
TIME_UTC: 2025-02-17 06:54:09.676
LOG: Default STARTUP TCP probe succeeded after 1 attempt for container "worker" on port 8080.
```

06.4g.11

- Why are there no items returned?
    - I assume because the subscription was made after the message was sent so it didn't get it as it didn’t exist.

06.4g.12

```
francoer@pubsub:~$ gcloud pubsub subscriptions pull sub-${USER}
```

DATA	MESSAGE_ID	ORDERING_KEY	ATTRIBUTES	DELIVERY_ATTEMPT
Message #2	13965770794039281			

ACK_ID
RFAGFixdRkhRNxkIaFEOT14jPzUgKEUXCQgUBXx9cVtHdVhUGgdRDRlyfGhwa1hHUgJBWi9VWxENem1cbcyx9pREX0B0aVMVBAVCU31WXxsOYV5UdC_86oP03e-iQkAvOcmlqPNpe8L_-ONuZiA9XxJLLD5-NSBFQV5AEkw-FURJUytDCypYEU4EISE-MD5FUw

06.4g.15

```
(env) francoer@cloudshell:~ (cloud-franco-francoer)$ vim publisher.py
(env) francoer@cloudshell:~ (cloud-franco-francoer)$ python3 publisher.py
Enter a message to send: Hello test 1
Published 13707438337005298 to topic projects/cloud-franco-francoer/topics/my_topic
Enter a message to send: test test test
Published 13707737618393061 to topic projects/cloud-franco-francoer/topics/my_topic
Enter a message to send: hello hello hello
Published 13965994133766534 to topic projects/cloud-franco-francoer/topics/my_topic
Enter a message to send:
```

```
(env) francoer@pubsub:~$ vim subscriber.py
(env) francoer@pubsub:~$ python3 subscriber.py
Received message 13707438337005298: 2025-02-17 07:57:10 (projects/cloud-franco-francoer/topics/my_topic) : Hello test 1
Received message 13707737618393061: 2025-02-17 07:57:24 (projects/cloud-franco-francoer/topics/my_topic) : test test test
Received message 13965994133766534: 2025-02-17 07:57:30 (projects/cloud-franco-francoer/topics/my_topic) : hello hello hello
```