

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

Not secure eb-hello-env.eba-jkemmhg.v.us-east-1.elasticbeanstalk.com

FPS N/A GPU 5

Congratulations

Your first AWS Elastic Beanstalk Python Application is now running on your own dedicated environment in the AWS Cloud

This environment is launched with Elastic Beanstalk Python Platform

What's Next?

- [AWS Elastic Beanstalk overview](#)
- [AWS Elastic Beanstalk concepts](#)
- [Deploy a Django Application to AWS Elastic Beanstalk](#)
- [Deploy a Flask Application to AWS Elastic Beanstalk](#)
- [Customizing and Configuring a Python Container](#)
- [Working with Logs](#)

February 12, 2025 17:34:56 (UTC-8)	INFO	Successfully launched environment: Eb-hello-env
February 12, 2025 17:34:54 (UTC-8)	INFO	Application available at Eb-hello-env.eba-jkemmhg.v.us-east-1.elasticbeanstalk.com.
February 12, 2025 17:34:54 (UTC-8)	INFO	Instance deployment completed successfully.
February 12, 2025 17:34:54 (UTC-8)	INFO	Instance deployment successfully generated a 'Profile'.
February 12, 2025 17:34:54 (UTC-8)	INFO	Created Load Balancer listener named: arn:aws:elasticloadbalancing:us-east-1:836343574217:listener/app/awseb--AWSEB-R1kcSYyKDMzh/5e73ff472d5f1bd3/1580e5b369bfff597
February 12, 2025 17:34:30 (UTC-8)	INFO	Created load balancer named: arn:aws:elasticloadbalancing:us-east-1:836343574217:loadbalancer/app/awseb--AWSEB-R1kcSYyKDMzh/5e73ff472d5f1bd3

06.1a.4 EB

Instances (4) Info							
		Last updated less than a minute ago		Connect	Instance state	Actions	Launch instances
Francoer				All states		< 1 >	
<input type="checkbox"/>	Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zo
<input type="checkbox"/>	Eb-hello-env	i-092c717fccc06e09	Running	t2.large	2/2 checks passec	View alarms +	us-east-1a
<input type="checkbox"/>	guestbook	i-0130d010e899bebd7	Running	t2.micro	2/2 checks passec	View alarms +	us-east-1d
<input type="checkbox"/>	Eb-hello-env	i-017d0d3d809ce558d	Running	t2.large	2/2 checks passec	View alarms +	us-east-1c
<input type="checkbox"/>	Eb-hello-env	i-0023c8982ccdea33d	Terminated	t2.large	-	View alarms +	us-east-1c

06.1a.7 EB

Not secure guestbook-env.eba-zxhvvmj.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

Search Francoer

All states

< 1 >

	Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability
<input type="checkbox"/>	guestbook-env	i-08952c09d8356aa4a	Running	t3.micro	3/3 checks passec	View alarms +	us-east-1b
<input type="checkbox"/>	guestbook-env	i-09c79eb5fe662445d	Running	t3.micro	3/3 checks passec	View alarms +	us-east-1a
<input type="checkbox"/>	guestbook	i-0130d010e899bebd7	Running	t2.micro	2/2 checks passec	View alarms +	us-east-1d
<input type="checkbox"/>	guestbook-env	i-0552fc08936902776	Running	t3.micro	3/3 checks passec	View alarms +	us-east-1c

06.1g.3

cloud-franco-francoer.uw.r.appspot.com

Guestbook

Sign [here](#)

Entries

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

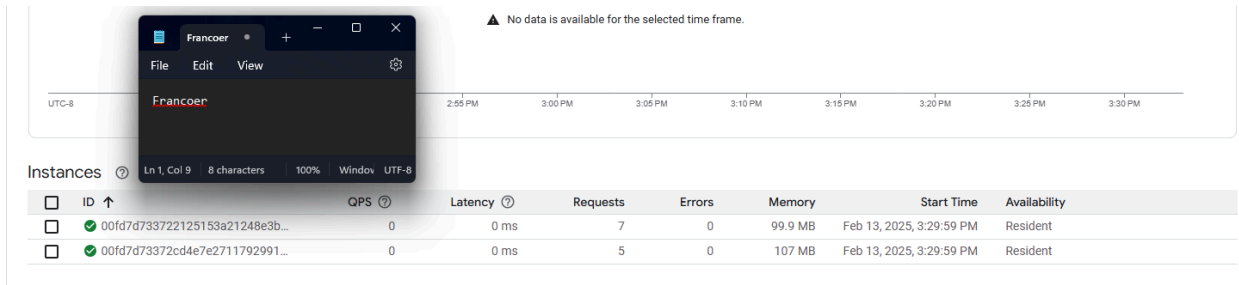
Erick Franco <francoer@pdx.edu>
signed on 2025-02-08 07:07:36.379017+00:00
Hello Datastore!

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

← → ↻ 8000-cs-636384430516-default.cs-us-west1-wolo.cloudshell.dev/francoer

L to access by proxy:

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

Artifact Registry

Repositories

Settings

7e754c13d8e2d

DELETE

SETUP INSTRUCTIONS

DEPLOY

REFRESH

us-west1-docker.pkg.dev > ... > secret-proxy-repo > secret-proxy > sha256:7e754c13d8e2d

OVERVIEW

PULL

MANIFEST

FILES

ATTACHMENTS

Format

Media type

Project

Location

Repository

Image

Digest

Virtual size

Built

Created

Updated

Tags

Subject digest

Artifact type

Docker

application/vnd.docker.distribution.manifest.v2+json

cloud-franco-francoer

us-west1 (Oregon)

secret-proxy-repo

secret-proxy

sha256:7e754c13d8e2db00be4b7f8dd77e5b99138630901c1b8c03d14840c8e9b72a10

52.6 MB

Feb 13, 2025, 4:26:34 PM

Feb 13, 2025, 4:26:45 PM

Feb 13, 2025, 4:26:45 PM

latest

—

—

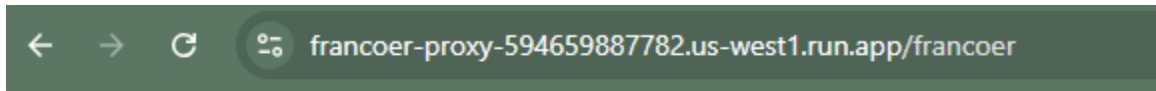
Frangoer

File Edit View

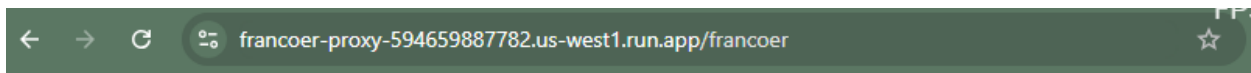
Frangoer

Ln 1, Col 9 8 characters 100% Window UTF-8

06.2g.11



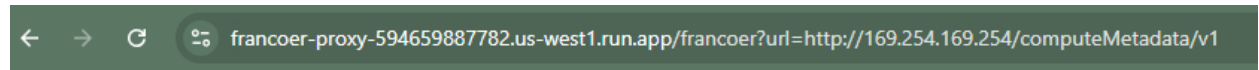
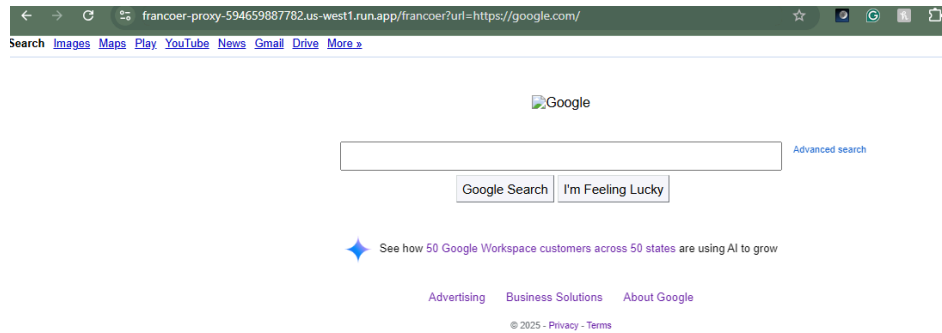
L to access by proxy:



Not Found

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

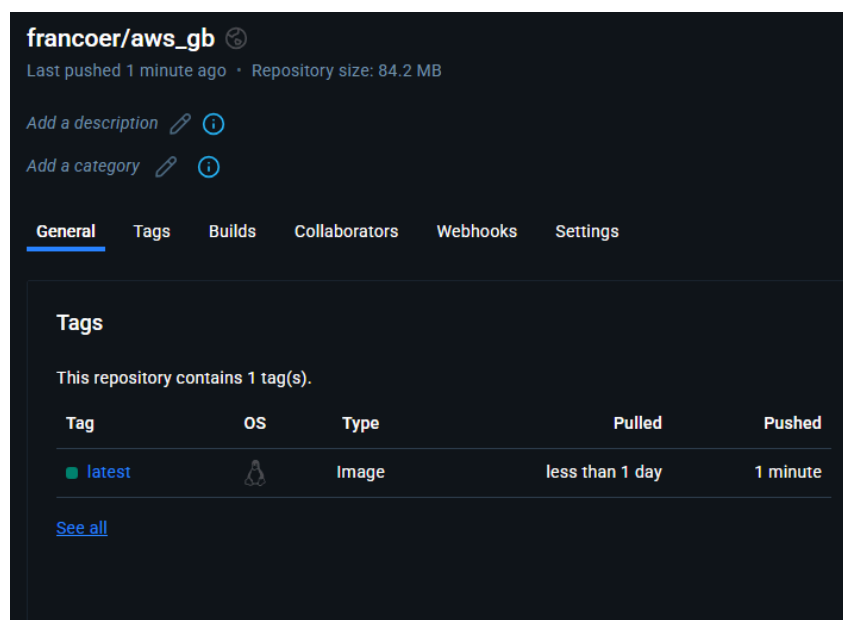
06.2g.13



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

Scheme

Internet-facing

Status

Active

Hosted zone

Z35SXDOTRQ7X7K

VPC

[vpc-088d53dad74ea6f7e](#)

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)

Load balancer IP address type

IPv4

Date created

February 14, 2025, 13:52 (UTC-08:00)

Francoer

File Edit View

Ln 1, Col 9 | 8 characters | 100% | Window 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

↑

↓

102 | Downloading pyosint_modules-0.4.1-py3-none-any.whl (181 Kb)

us-west1-docker.pkg.dev > ... > gcp_gb > sha256:a503591a77e87ffd8aff3a0b0551f208d7b97a861f043c14e2a67ed4a31d9e98

OVERVIEW

PULL

MANIFEST

FILES

ATTACHMENTS

Format

Media type

Project

Location

Repository

Image

Digest

Virtual size ?

Built

Created

Updated

Tags ?

Subject digest

Artifact type

Docker

application/vnd.docker.distribution.manifest.v2+json

cloud-franco-francoer

us-west1 (Oregon)

guestbook-repo

gcp_gb

sha256:a503591a77e87ffd8aff3a0b0551f208d7b97a861f043c14e2a67ed4a31d9e98

1.2 GB

Feb 15, 2025, 1:33:28 PM

Feb 15, 2025, 1:36:03 PM

Feb 15, 2025, 1:36:03 PM

latest

—

—

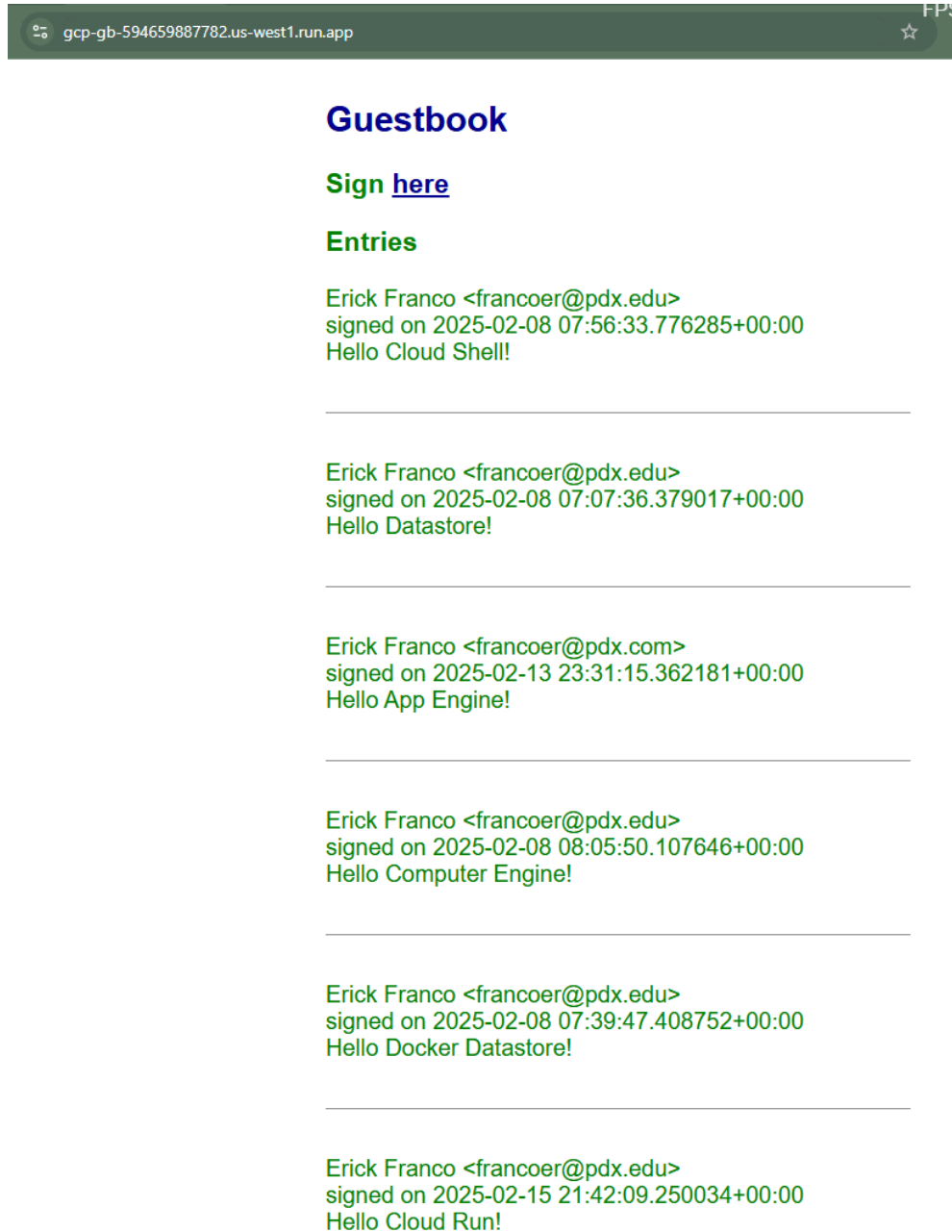
Francoer

File Edit View

Francoer

Ln 1, Col 9 | 8 characters | 100% | Window 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-west1 --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	ACK_ID
Message #2	13965770794039281				RFAGFixdRkhrNkKiaFEOT14jPzUgKEUXCQgUBXs9cVtHdVhUGgdRDRlyfGhwa1hHUGJbW:9VWxEEm1cbcyx9pREX0B0aVMVBVCU3lWXxoOYV5UdC_86cP03e~1Qk4wOcm1qPNe0I_-0MoZia9XxJLLD5~NSBFQV5AEkw~FURJUycDCypYEUEISE~MD5FUw

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

DATA	MESSAGE_ID	ORDERING_KEY	ATTRIBUTES	DELIVERY_ATTEMPT
Message #2	13965770794039281			

ACK_ID
RFAGFixdRkhrNkKiaFEOT14jPzUgKEUXCQgUBXs9cVtHdVhUGgdRDRlyfGhwa1hHUGJbW:9VWxEEm1cbcyx9pREX0B0aVMVBVCU3lWXxoOYV5UdC_86cP03e~1Qk4wOcm1qPNe0I_-0MoZia9XxJLLD5~NSBFQV5AEkw~FURJUycDCypYEUEISE~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_to
pic) : Hello test 1
Received message 13707737618393061: 2025-02-17 07:57:24 (projects/cloud-franco-francoer/topics/my_to
pic) : test test test
Received message 13965994133766534: 2025-02-17 07:57:30 (projects/cloud-franco-francoer/topics/my_to
pic) : hello hello hello

```