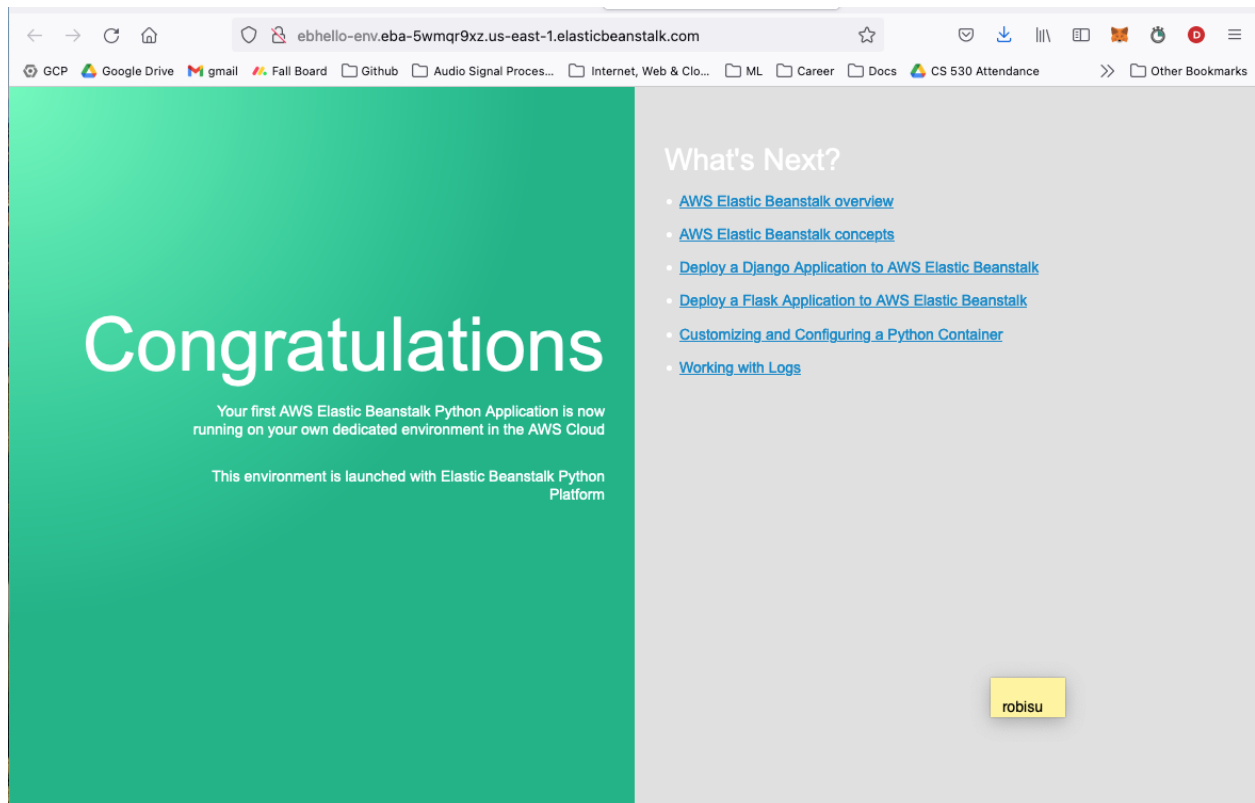


6.1 / Elastic Beanstalk Guestbook	1
6.1 / Google App Engine Guestbook	4
6.2 / Cloud Run (web proxy)	5
6.3 / Cloud Run (Guestbook)	6
6.4 / Cloud Functions (Image Blurring)	7

6.1 / Elastic Beanstalk Guestbook



<input type="checkbox"/>	Name ▾	Instance ID	Instance state ▾	Instance type ▾	Status check	Alarm status	Availability Zone ▾
<input type="checkbox"/>	Ebhello-env	i-0f970a49db87f0d98	Pending	t2.micro	–	No alarms	us-east-1b
<input type="checkbox"/>	Ebhello-env	i-0a137e447c7074ac1	Running	t2.micro	2/2 checks passed	No alarms	us-east-1a
<input type="checkbox"/>	Ebhello-env	i-0ccdef66b97540dfd	Terminated	t2.micro	–	No alarms	us-east-1c

Guestbook

Sign [here](#)

Entries

Robin Su <robisu@pdx.edu>
signed on 2021-11-01 09:46:16.515481
Hello DynamoDB!

Robin Su <robisu@pdx.edu>
signed on 2021-11-01 16:56:52.416960
Hello Docker DynamoDB!

Robin Su <robisu@pdx.edu>
signed on 2021-11-01 17:14:02.520862
Hello Cloud9!

Robin Su <robisu@pdx.edu>
signed on 2021-11-01 17:31:50.297167
Hello EC2!

Robin Su <robisu@pdx.edu>
signed on 2021-11-03 21:19:15.109926
Hello Elastic Beanstalk!

Instances (7) Info									Connect	Instance state ▼	Actions ▼	Launch instances ▼
<input type="text" value="Filter instances"/>								< 1 >				
<input type="checkbox"/>	Name ▼	Instance ID	Instance state ▲		Instance type ▼	Status check	Alarm status	Availability Zone ▼				
<input type="checkbox"/>	guestbook-env	i-01904cc429a47cf42	Running		t2.micro	2/2 checks passed	No alarms +	us-east-1b				
<input type="checkbox"/>	aws-cloud9-eb...	i-0e4d62de7699155db	Running		t2.micro	2/2 checks passed	No alarms +	us-east-1e				
<input type="checkbox"/>	guestbook-env	i-0e4f537dc9f729b58	Running		t2.micro	2/2 checks passed	No alarms +	us-east-1a				
<input type="checkbox"/>	guestbook-env	i-0242364b93364a6a4	Running		t2.micro	2/2 checks passed	No alarms +	us-east-1c				

6.1 / Google App Engine Guestbook

https://cloud-f21-robin-su-robisu.wl.r.appspot.com

il Fall Board Github Audio Signal Proces... Internet, Web & Clo... ML Career Docs CS 530 Attendance Fall Coding Compute

Guestbook

[Sign here](#)

Entries

Robin Su <robisu@pdx.edu>
signed on 2021-11-01 11:40:54.466521+00:00
Hello Datastore!






Robin Su <robisu@pdx.edu>
signed on 2021-11-01 19:16:14.843261+00:00
Hello Cloud Shell!

Robin Su <robisu@pdx.edu>
signed on 2021-11-01 18:48:47.850947+00:00
Hello Docker Datastore!

Robin Su <robisu@pdx.edu>
signed on 2021-11-01 19:26:47.559153+00:00
Hello Compute Engine!

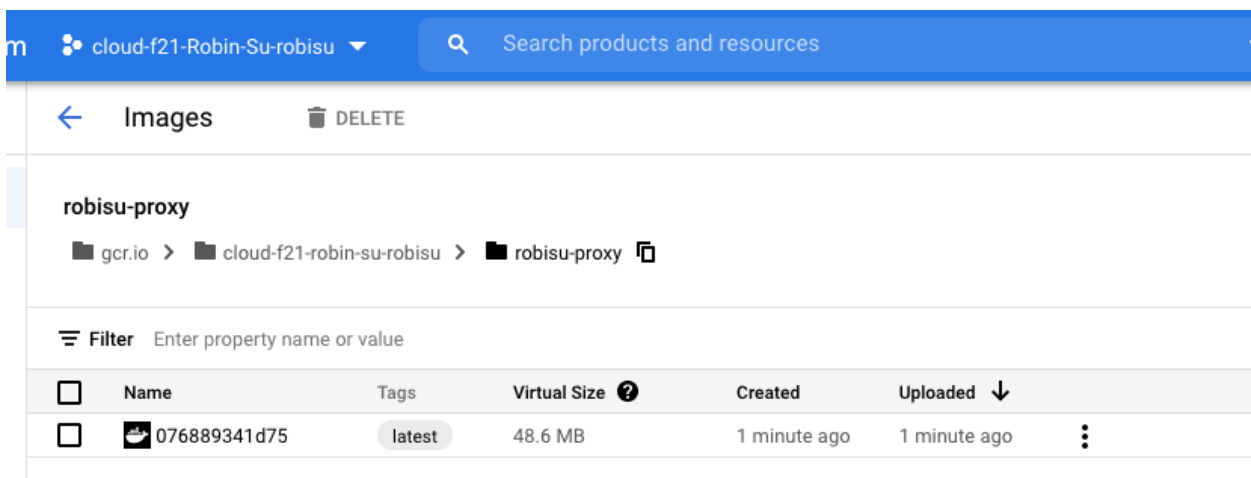
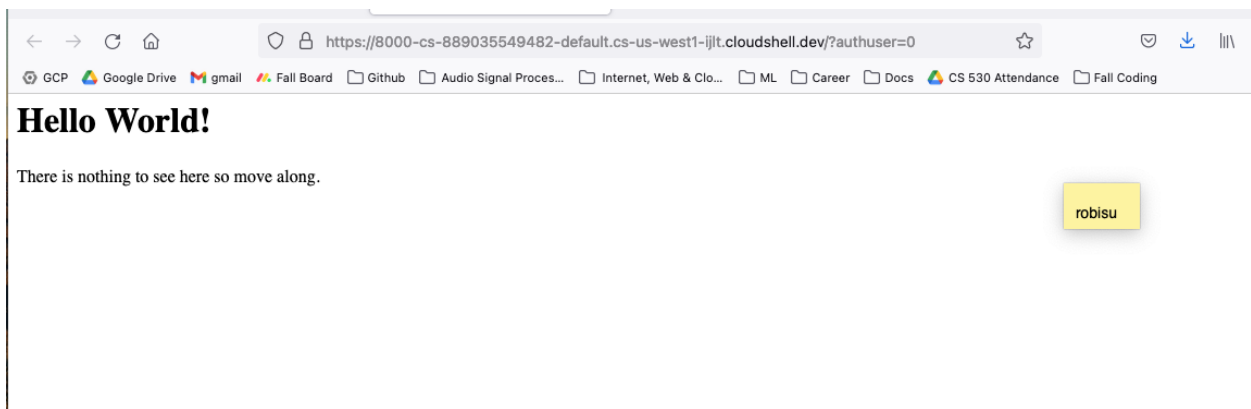
Robin Su <robisu@pdx.edu>
signed on 2021-11-03 21:59:18.541259+00:00
Hello App Engine!

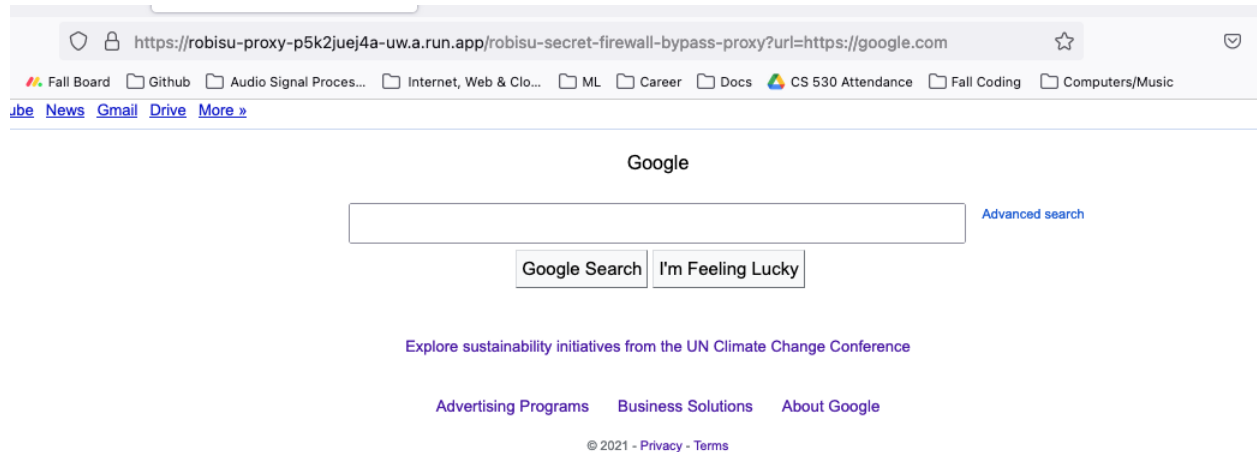
Instances

<input type="checkbox"/>	ID 	QPS 	Latency 	Requests	Errors	Memory	Start Time
<input type="checkbox"/>	 00c61b117c2f47d8a2606103a024089	0.045	1054 ms	2	0	83.7 MB	Nov 3, 2021, 3:07:05 PM
<input type="checkbox"/>	 00c61b117c440b871f58022fe62f609f:	0.045	974 ms	2	0	77.1 MB	Nov 3, 2021, 3:07:05 PM

robisu

6.2 / Cloud Run (web proxy)

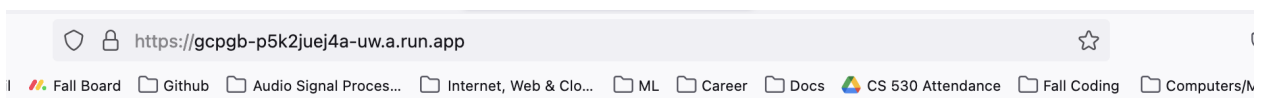
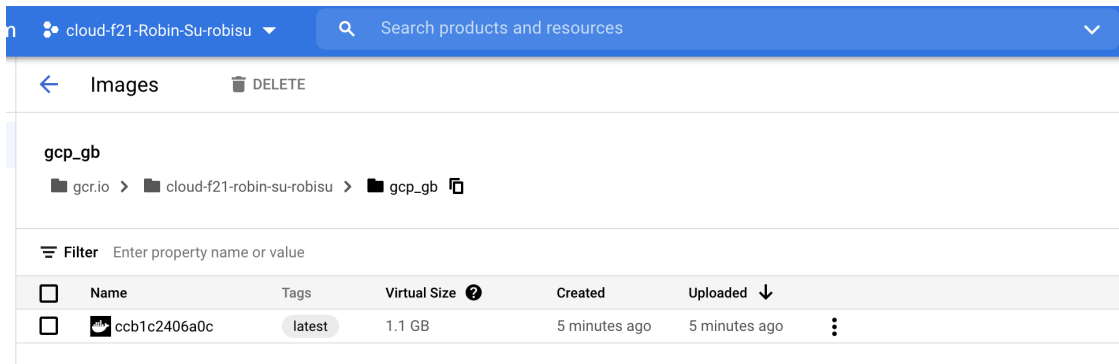




- *Identify the vulnerability in your lab notebook that Google has prevented.*
 - **The vulnerability that is prevented here is a SSRF, a server side request forgery. This is a vulnerability that would allow a user to access metadata of the machine where my app server is running, which should only be accessible from the machine itself - if this were a live vulnerability, I would be able to retrieve the metadata information from the machine and display it locally on my browser. But Google has build protections to prevent this kind of attack.**

6.3 / Cloud Run (Guestbook)

Successful: 2312eed5 Started on Nov 3, 2021, 5:35:23 PM		Source gs://cloud-f21-robin-su-robisu_cloudbuild/source/1635986085.653116-b13cf9d5a1214ccc96334135291d9235.tgz
Steps	Duration	BUILD LOG
Build Summary 1 Step	00:01:40	<input type="checkbox"/> Wrap lines <input type="checkbox"/> Show newest entries first <input type="text"/> <input type="button" value="EXPAND"/> <input type="button" value="VIEW RAW"/>
0: gcr.io/cloud-builders/docker build --network cloudbuild --no-cach...	00:01:22	<pre> 187 4fe7c885ee5f: Preparing 188 5582d3f94b78: Preparing 189 1259b82f15a9: Preparing 190 267a864d1a01: Preparing 191 d6a325281f2: Preparing 192 4fe7c885ee5f: Waiting 193 5582d3f94b78: Waiting 194 1259b82f15a9: Waiting 195 267a864d1a01: Waiting 196 d6a325281f2: Waiting 197 4d454569b0a6: Layer already exists 198 8208a760878a: Layer already exists 199 c74177a0a3003: Layer already exists 200 4fe7c885ee5f: Layer already exists 201 1259b82f15a9: Layer already exists 202 5582d3f94b78: Layer already exists 203 267a864d1a01: Layer already exists 204 d6a325281f2: Layer already exists 205 bc9f918e1f37: Pushed 206 f1042c1491c7: Pushed 207 latest: digest: sha256:ccb1c2486a0c186f52b6fef54c839e5a9c64e53daa49ecc408939cb0117f2176 size: 2423 208 DONE </pre>



Guestbook

Sign [here](#)

Entries

Robin Su <robisu@pdx.edu>
signed on 2021-11-04 00:49:53.936993+00:00
Hello Cloud Run!

Robin Su <robisu@pdx.edu>

- What port do container instances listen on?
 - The instances listen on port 8080
- What are the maximum number of instances Cloud Run will autoscale up to for your service?
 - The max instances is 100

6.4 / Cloud Functions (Image Blurring)

- After downloading the file from the bucket, where is it stored?
 - The file is stored under a temporary file, temp_local_filename
- What class in the ImageMagick package is used to do the blurring of the file?
 - It uses the Image class and its functions to blur the file
- What lines of code perform the blurring of the image and its storage back into the filesystem?
 - Lines #72-84 perform the blurring and upload into the storage bucket for output images

robisu-imageblur-out

Location

Storage class

Public access

Protection

us (multiple regions in United States)

Standard

⚠ Subject to object ACLs

None

OBJECTS

CONFIGURATION

PERMISSIONS

PROTECTION

LIFECYCLE

Buckets > robisu-imageblur-out

UPLOAD FILES

UPLOAD FOLDER

CREATE FOLDER

MANAGE HOLDS

DOWNLOAD

DELETE

Filter by name prefix only

Filter Filter objects and folders

Show deleted data

<input type="checkbox"/>	Name	Size	Type	Created ?	Storage class	Last modified	
<input type="checkbox"/>	gore1.jpg	68.1 KB	application/octet-stream	Nov 3, 20...	Standard	Nov 3, 202	
<input type="checkbox"/>	gore2.jpg	61.6 KB	application/octet-stream	Nov 3, 20...	Standard	Nov 3, 202	
<input type="checkbox"/>	zombie-949916_1280.jpg	87.1 KB	application/octet-stream	Nov 3, 20...	Standard	Nov 3, 202	

```
robisu@cloudshell:~/python-docs-samples/functions/imagemagick (cloud-f21-robin-su-robisu)$ gcloud funct
LEVEL: D
NAME: blur_offensive_images
EXECUTION_ID: q118gm5wjxm8
TIME_UTC: 2021-11-04 01:28:46.463
LOG: Function execution took 21015 ms, finished with status: 'ok'

LEVEL: I
NAME: blur_offensive_images
EXECUTION_ID: q118gm5wjxm8
TIME_UTC: 2021-11-04 01:28:46.461
LOG: Blurred image uploaded to: gs://robisu-imageblur-out/gore1.jpg

LEVEL: I
NAME: blur_offensive_images
EXECUTION_ID: q118gm5wjxm8
TIME_UTC: 2021-11-04 01:28:46.309
LOG: Image gore1.jpg was blurred.
```



```
LEVEL: I
NAME: blur_offensive_images
EXECUTION_ID: qil8xam6b9qf
TIME_UTC: 2021-11-04 01:20:55.633
LOG: Image zombie-949916_1280.jpg was downloaded to /tmp/tmp8sa_850i.
```

```
LEVEL: I
NAME: blur_offensive_images
EXECUTION_ID: qil8xam6b9qf
TIME_UTC: 2021-11-04 01:20:55.524
LOG: The image zombie-949916_1280.jpg was detected as inappropriate.
```

```
LEVEL: I
NAME: blur_offensive_images
EXECUTION_ID: qil8xam6b9qf
TIME_UTC: 2021-11-04 01:20:54.935
LOG: Analyzing zombie-949916_1280.jpg.
robisu@cloudshell:~/python-docs-samples/functions/imagemagick (cloud-f21-robin-su-robisu)$ █
```