# Lab Notebook – Week 6

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

What lines of code perform the blurring of the image and its storage back into the file system?

Test function

PubSub via CLI

Why are no items returned?

What is the 'messageld' of the published message?

Screenshot of the output of successful pull that includes the message and its 'messageld'

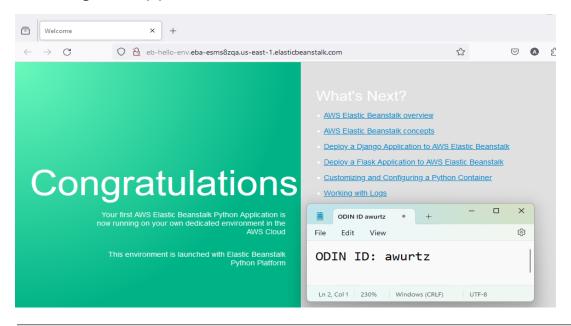
**Test Programs** 

**Messages Sent** 

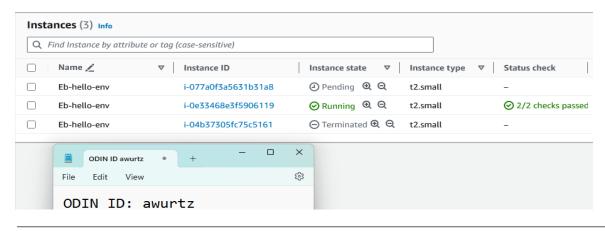
Messages Received

## 06.1a: EB Guestbook

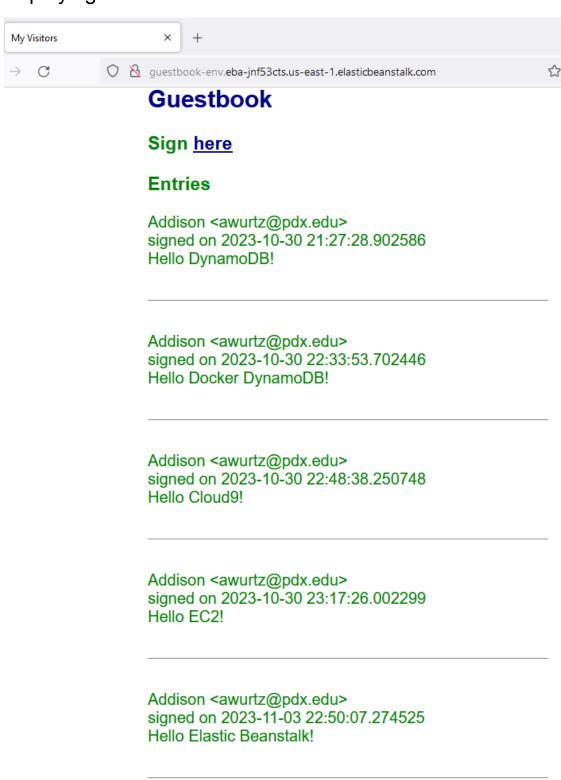
## Running the application

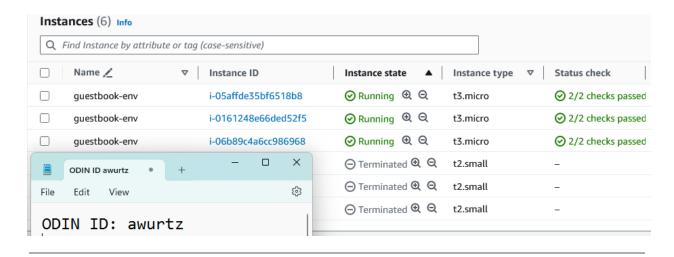


### Handling failures seamlessly



## Deploying the Guestbook





# 06.1g: App Engine Guestbook

## Deploying the Guestbook



## **Guestbook**

## Sign <u>here</u>

### **Entries**

Addison <awurtz@pdx.edu> signed on 2023-11-03 22:25:33.192990+00:00 Hello App Engine!

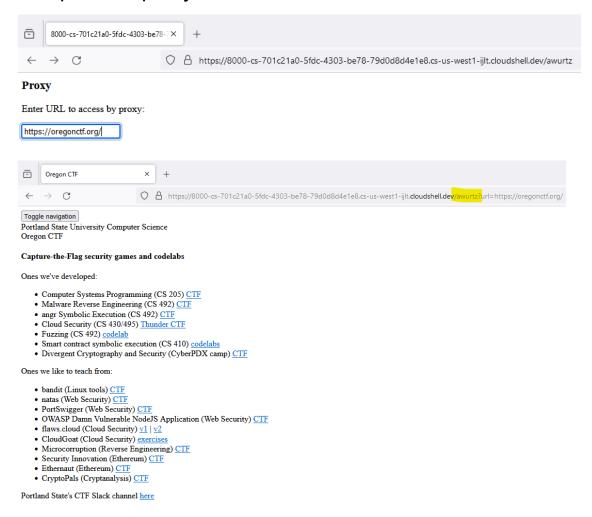
## Handling failures seamlessly

### Instances @



# 06.2g: Cloud Run, Secret Manager (Web proxy)

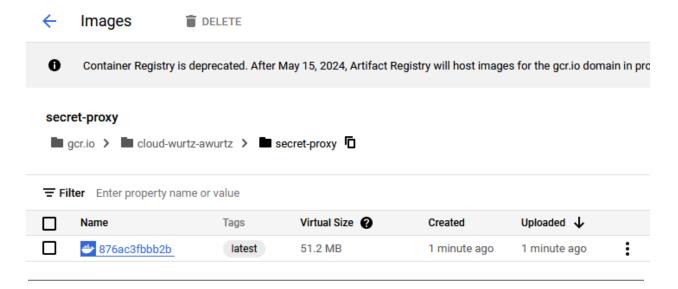
### Setup secret proxy



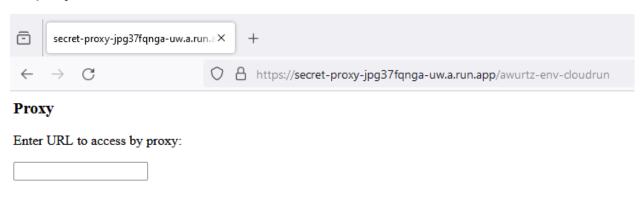
# What is the security advantage of passing in the secret proxy route as an environment variable?

Passing the secret proxy route as an environment variable means that you don't have to include the secret in the docker image. This means you can share the docker image publicly without revealing your secrets.

## Cloud Build and Container Registry



## Deploy to Cloud Run

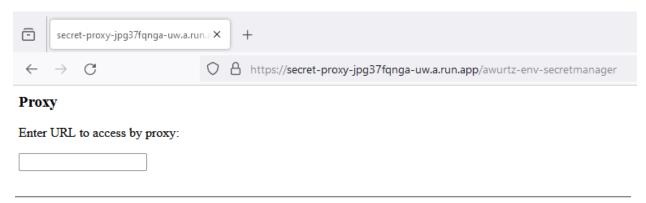




### **Not Found**

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

# Deploy to Cloud Run with Secret Manager

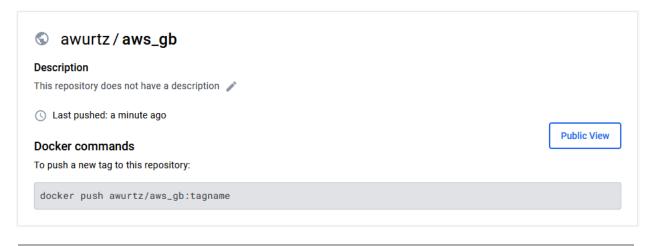


# Identify the vulnerability in your lab notebook that Google has prevented.

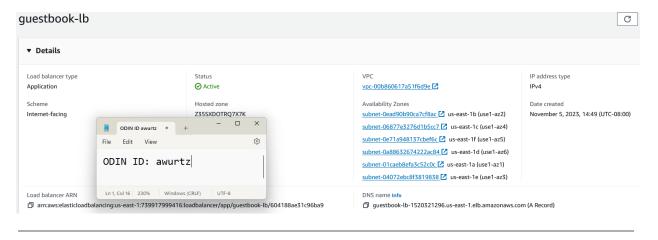
Google prevented an SSRF (Server Side Request Forgery)

## 06.3a: ECS Guestbook

## Preparing the container image



### Examine the service



### Visit the site



# **Guestbook**

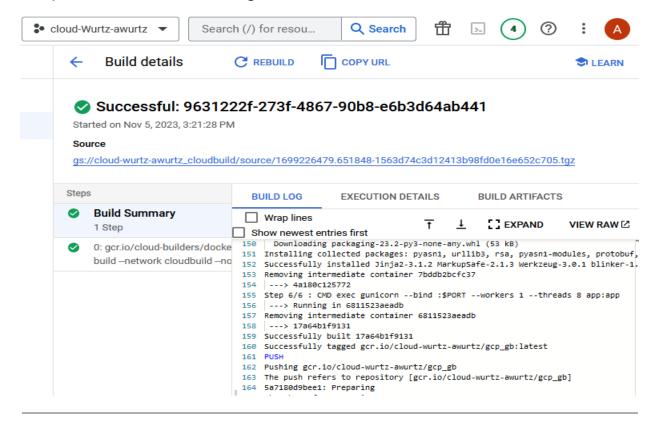
# Sign here

### **Entries**

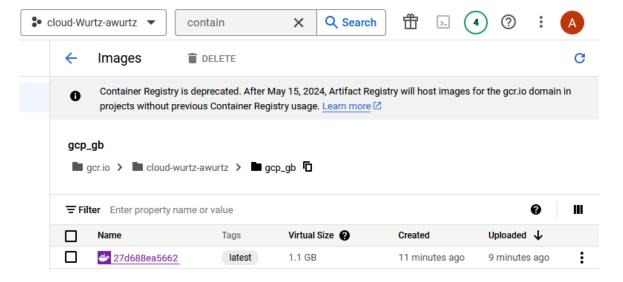
Addison <awurtz@pdx.edu> signed on 2023-11-05 23:12:13.281133 Hello ECS!

# 06.3g: Cloud Run Guestbook

### Prepare a container image



## View container image



### View the Guestbook

My Visitors	× +	
$\rightarrow$ G	https://gcp-gb-jpg37fqnga-uw.a.run.app	4

## Guestbook

## Sign <u>here</u>

### **Entries**

Addison <awurtz@pdx.edu> signed on 2023-11-05 23:51:36.734893+00:00 Hello Cloud Run!

What port do container instances listen on?

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

100

# 06.4g: Cloud Functions, PubSub

After downloading the file from the bucket, where is it stored? In a temporary local file.

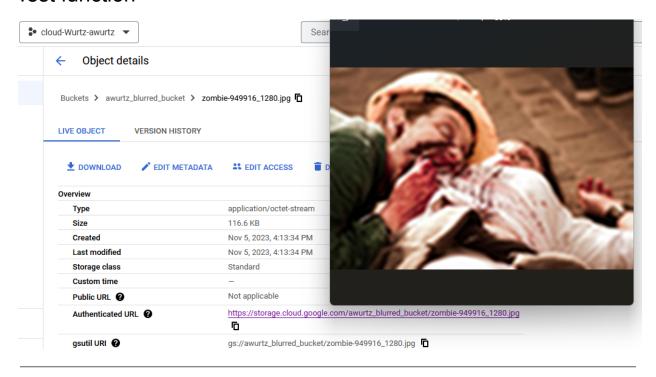
What class in the ImageMagick package is used to do the blurring of the file?

The Image class is used to blur the file.

What lines of code perform the blurring of the image and its storage back into the file system?

Lines 72-74 blur the image and save it to a temporary local file. Lines 81-84 upload the image to a storage bucket for blurred images.

### Test function





CLOUD SHELL

Terminal

(cloud-wurtz-awurtz) × + ▼

```
LEVEL: I
NAME: blur offensive images
EXECUTION ID: rhfyjnksuvr5
TIME UTC: 2023-11-06 00:13:34.484
LOG:
LEVEL: I
NAME: blur offensive images
EXECUTION ID: rhfyjnksuvr5
TIME UTC: 2023-11-06 00:13:34.484
LOG: Image zombie-949916 1280.jpg was blurred.
LEVEL: I
NAME: blur offensive images
EXECUTION ID: rhfyjnksuvr5
TIME UTC: 2023-11-06 00:13:21.967
LOG:
LEVEL: I
NAME: blur_offensive_images
EXECUTION ID: rhfyjnksuvr5
TIME UTC: 2023-11-06 00:13:21.967
LOG: Image zombie-949916 1280.jpg was downloaded to /tmp/tmpe98k6t79.
LEVEL: I
NAME: blur_offensive_images
EXECUTION_ID: rhfyjnksuvr5
TIME UTC: 2023-11-06 00:13:21.790
LOG:
LEVEL: I
NAME: blur_offensive_images
EXECUTION_ID: rhfyjnksuvr5
TIME_UTC: 2023-11-06 00:13:21.790
LOG: The image zombie-949916 1280.jpg was detected as inappropriate.
LEVEL: I
NAME: blur_offensive_images
EXECUTION ID: rhfyjnksuvr5
TIME UTC: 2023-11-06 00:13:21.317
LOG:
LEVEL: I
NAME: blur offensive images
EXECUTION ID: rhfyjnksuvr5
TIME UTC: 2023-11-06 00:13:21.317
LOG: Analyzing zombie-949916 1280.jpg.
LEVEL: D
NAME: blur offensive images
EXECUTION ID: rhfyjnksuvr5
TIME UTC: 2023-11-06 00:13:20.894
LOG: Function execution started
```

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### PubSub via CLI

Why are no items returned?

Because when the first message was created there were no subscribers, so the message was deleted.

What is the 'messageld' of the published message?

```
messageIds:
- '8995000122789725'
awurtz@cloudshell:~ (cloud-wurtz-awurtz)$
```

Screenshot of the output of successful pull that includes the message and its `messageId`



### **Test Programs**

### Messages Sent

```
(env) awurtz@cloudshell:~ (cloud-wurtz-awurtz)$ python3 publisher.py
Enter a message to send: "First Message!"
Published 9576786039336726 to topic projects/cloud-Wurtz-awurtz/topics/my_topic
Enter a message to send: "Second Message!!"
Published 9576617102766540 to topic projects/cloud-Wurtz-awurtz/topics/my_topic
Enter a message to send: "Third Message!!!"
Published 9577851374853719 to topic projects/cloud-Wurtz-awurtz/topics/my_topic
Enter a message to send: "...Final Message..."
Published 8995286582272488 to topic projects/cloud-Wurtz-awurtz/topics/my_topic
Enter a message to send: "...Final Message..."
```

### Messages Received

```
(env) awurtz@pubsub:~$ python3 subscriber.py
Received message 9576786039336726: 2023-11-06 00:40:43 (projects/cloud-Wurtz-awurt
/topics/my_topic) : "First Message!"
Received message 9576617102766540: 2023-11-06 00:40:54 (projects/cloud-Wurtz-awurt
/topics/my_topic) : "Second Message!!"
Received message 9577851374853719: 2023-11-06 00:41:03 (projects/cloud-Wurtz-awurt
/topics/my_topic) : "Third Message!!!"
Received message 8995286582272488: 2023-11-06 00:41:11 (projects/cloud-Wurtz-awurt
/topics/my_topic) : "...Final Message..."
```