

4. Create a scalable serverless architecture to detect objects from the images immediately after being uploaded to a GCS bucket. The extracted information about the objects should be logged [optional: stored to datastore database]. The designed architecture should also have error handling

```
from google.cloud import vision
def hello_gcs(event, context):
    """ This function is used to identify the objects in the image that is uploaded to the bucket
    """
    try:
        file = event #Put the JSON string into variable file
        print(f"Processing file: {file['name']}".)
        path="gs://" + file['bucket'] + "/" + file['name'] #From the JSON obtain the name of
                                                    #bucket and file
        print(path)

        client = vision.ImageAnnotatorClient()
        image = vision.types.Image()
        image.source.image_uri = path

        objects = client.object_localization(
            image=image).localized_object_annotations
    """
        From the below code we use Vision API to obtain the different objects in the
        image
    """
    print('Number of objects found: {}'.format(len(objects)))
    for object_ in objects:
        print('\n{} (confidence: {})'.format(object_.name, object_.score))
        print('Normalized bounding polygon vertices: ')
        for vertex in object_.bounding_poly.normalized_vertices:
            print(' - ({} , {})'.format(vertex.x, vertex.y))
    except Exception as e:
        print("Error")
        raise e
```

Output:-

Google Cloud Platform

Training

Storage

Browser

Transfer

Transfer Appliance

Settings

Object details

DOWNLOAD

EDIT PERMISSIONS

DELETE

Buckets / austin-object-detect / cat-dog.jpeg

Access

Not public

Type

application/octet-stream

Size

29.71 KB

Created

June 24, 2019 at 11:15:29 AM UTC+5:30

Last modified

June 24, 2019 at 11:15:29 AM UTC+5:30

URI

gs://austin-object-detect/cat-dog.jpeg

Link URL

https://storage.cloud.google.com/austin-object-detect/cat-dog.jpeg

cat-dog.jpeg

cat-dog.jpeg

cat-dog.webp

puppy-dog.jpg

Show all