**Enable the Video Intelligence API**

For this lab the **Cloud Video Intelligence API** is enabled for you.

**Set up authorization**

This lab creates and uses a service account that is tied to your Qwiklabs Google Cloud project for authorization.

In Cloud Shell run the following command to create a new service account named quickstart:

gcloud iam service-accounts create quickstart

Create a service account key file, replacing <your-project-123> with your Qwiklabs Project ID:

gcloud iam service-accounts keys create key.json --iam-account quickstart@<your-project-123>.iam.gserviceaccount.com

Now authenticate your service account, passing the location of your service account key file:

gcloud auth activate-service-account --key-file key.json

Obtain an authorization token using your service account:

gcloud auth print-access-token

The token will print in the output, and you'll be using it in a future step.

**Make an annotate video request**

Use the editor of your choice (nano, vi, etc. or the gcloud editor) to create a JSON request file with the following text, and save it as request.json :

{

"inputUri":"gs://spls/gsp154/video/train.mp4",

"features": [

"LABEL\_DETECTION"

]

}

To make the process simpler, a public video of a train is used. If preferred, any video can be used in place by uploading it to Cloud Storage and providing its Cloud Storage URI (format: gs://bucket/object) for the value of "inputUri".

Use curl to make a videos:annotate request passing the filename of the entity request:

curl -s -H 'Content-Type: application/json' \

-H 'Authorization: Bearer '$(gcloud auth print-access-token)'' \

'https://videointelligence.googleapis.com/v1/videos:annotate' \

-d @request.json

The Video Intelligence API creates an operation to process your request. You should now see a response that includes your operation name, which should look similar to this one:

{

"name": "us-west1.18358601230245040268"

}

You will use this name in a future step.

Use this script to request information on the operation by calling the v1.operations endpoint. Replace the OPERATION\_NAME with the operation name value you just received:

curl -s -H 'Content-Type: application/json' \

-H 'Authorization: Bearer '$(gcloud auth print-access-token)'' \

'https://videointelligence.googleapis.com/v1/operations/OPERATION\_NAME'

You'll now see information related to your operation. If the operation has completed, a done field is included and set to true:

{

"name": "OPERATION\_NAME",

"metadata": {

"@type": "type.googleapis.com/google.cloud.videointelligence.v1.Annota

tionProgressMetadata",

"progressMetadata": [

{

"inputUri": "gs://spls/gsp154/video/train.mp4",

"startTime": "2016-09-22T21:41:56.766091Z",

"lastUpdateTime": "2016-09-22T21:42:03.889743Z"

}

]

},

...

}

After giving the request some time (about a minute, typically), re-run the command and the same request returns annotated results:

{

"name": "OPERATION\_NAME",

"metadata": {

"@type": "type.googleapis.com/google.cloud.videointelligence.v1.AnnotateVideoProgress",

"annotationProgress": [

{

"inputUri": "/spls/gsp154/video/train.mp4",

"progressPercent": 100,

"startTime": "2017-02-17T22:39:00.333942Z",

"updateTime": "2017-02-17T22:39:11.414399Z"

}

]

},

"done": true,

"response": {

"@type": "type.googleapis.com/google.cloud.videointelligence.v1.AnnotateVideoResponse",

"annotationResults": [

{

"inputUri": "/spls/gsp154/video/train.mp4",

"segmentLabelAnnotations": [

{

"entity": {

"entityId": "/m/01yrx",

"languageCode": "en-US"

},

"segments": [

{

"segment": {

"startTimeOffset": "0s",

"endTimeOffset": "14.833664s"

},

"confidence": 0.98509187

}

]

},

...

You've sent your first request to Cloud Video Intelligence API.

**Congratulations!**

 

Finish Your Quest

This self-paced lab is part of the [Baseline: Deploy & Develop](https://google.qwiklabs.com/quests/37) and [Baseline: Data, ML, AI](https://google.qwiklabs.com/quests/34) Quests. A Quest is a series of related labs that form a learning path. Completing this Quest earns you the badge above, to recognize your achievement. You can make your badge (or badges) public and link to them in your online resume or social media account. Enroll in a Quest and get immediate completion credit if you've taken this lab. [See other available Qwiklabs Quests](http://google.qwiklabs.com/catalog).

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