

# Video Intelligence: Qwik Start

GSP154



- Google Cloud Video Intelligence API extracts metadata from videos via REST API, making video catalogs fully searchable.
- It annotates Cloud Storage videos to identify key entities, timestamps, and occurrences across entire videos or frame-by-frame.
- This lab teaches setting up authorization using a custom service account for secure API access.
- You'll construct and send an annotate video request to the Video Intelligence API.
- Extract relevant metadata including entities, shots, and timestamps from processed video content.

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00:43:09

⌚ Time limit

⚠️ Caution: When you are in the console, do not deviate from the lab instructions. Doing so may cause your account to be blocked. [Learn more.](#)

Open Google Cloud console

Username

student-02-dc49111c3d0c

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Password

URSWPP8VUec4

📄

Project ID

qwiklabs-gcp-02-b867efc

📄

Student Resources

📄 Google Cloud Video Intelligence:

3. (Optional) You can list the active account name with this command:

gcloud auth list

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4. Click **Authorize**.

Output:

ACTIVE: \*  
ACCOUNT: student-02-dc49111c3d0c@qwiklabs.net  
  
To set the active account, run:  
\$ gcloud config set account `ACCOUNT`

5. (Optional) You can list the project ID with this command:

gcloud config list project

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Output:

Lab instructions and tasks

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⌚Time limit

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🔗Open Google Cloud console

Username

student-02-dc49111c3d0c

🔗

Password

URSWPP8VUec4

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Project ID

qwiklabs-gcp-02-b867efc

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Student Resources

🔗Google Cloud Video Intelligence:

Task 1. Set up authorization

For this lab, you create and use a service account that is tied to your Google Cloud project for authorization.

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

gcloud iam service-accounts create quickstart

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

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

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

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

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📘 Gemini CLI is available in Cloud Shell terminal! Type gemini to try it. [Learn more](#)

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```
student_02_dc49111c3d0c@cloudshell:~ (qwiklabs-gcp-02-b867efc1387d) $ gcloud iam service-accounts create quickstart
Created service account [quickstart].
student_02_dc49111c3d0c@cloudshell:~ (qwiklabs-gcp-02-b867efc1387d) $
student_02_dc49111c3d0c@cloudshell:~ (qwiklabs-gcp-02-b867efc1387d) $
```

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End Lab

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Time limit

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Open Google Cloud console

Username

student-02-dc49111c3d0c

Password

URSWPP8VUec4

Project ID

qwiklabs-gcp-02-b867efc

Student Resources

Google Cloud Video Intelligence:

gcloud iam service-accounts create quickstart

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

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

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

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

4. 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.

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**End Lab**

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⌚ Time limit

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[Learn more.](#)

[Open Google Cloud console](#)

Username

student-02-dc49111c3d0c6

Password

URSWPP8VUec4

Project ID

qwiklabs-qcp-02-b867efc1

## Student Resources

Google Cloud Video Intelligence:

## Task 2. Make an annotated video request

**Note:** In this lab, the Cloud Video Intelligence API is already enabled for you.

1. Run this command to create a JSON request file with the following text, and save it as `request.json` :

```
cat > request.json <<EOF
{
  "inputUri": "gs://spl/spls/gsp154/video/train.mp4",
  "features": [
    "LABEL_DETECTION"
  ]
}
EOF
```

**Note:** To make the process simpler, a public video of a train available to your project is used as the value for your `inputUri`. If preferred or running in a personal project, 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`.

### Lab instructions and task

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```
student_02_dc49111c3d0c@cloudshell:~ (qwiklabs-gcp-02-b867efc1387d)$ cat > request.json <<EOF
{
  "inputUri":"gs://spl/gsp154/video/train.mp4",
  "features": [
    "LABEL_DETECTION"
  ]
}
EOF
student_02_dc49111c3d0c@cloudshell:~ (qwiklabs-gcp-02-b867efc1387d)$
```

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📘 Gemini CLI is available in Cloud Shell terminal! Type gemini to try it. [Learn more](#)

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```
student_02_dc49111c3d0c@cloudshell:~ (qwiklabs-gcp-02-b867efc1387d) $ cat > request.json <<EOF
{
  "inputUri":"gs://splsgsp154/video/train.mp4",
  "features": [
    "LABEL_DETECTION"
  ]
}
EOF
student_02_dc49111c3d0c@cloudshell:~ (qwiklabs-gcp-02-b867efc1387d) $ 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
{
  "name": "projects/129268078234/locations/us-east1/operations/299082906369137752"
}
student_02_dc49111c3d0c@cloudshell:~ (qwiklabs-gcp-02-b867efc1387d) $
```

Note: This was used to enter details in the next step:

"name": "projects/129268078234/locations/us-east1/operations/299082906369137752"

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End Lab

00:39:01

Time limit

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Open Google Cloud console

Username

student-02-dc49111c3d0c

Password

URSWPP8VUec4

Project ID

qwiklabs-gcp-02-b867efc

Student Resources

Google Cloud Video Intelligence:

You will use this operation name, locations and projects in the future step.

3. Use this script to request information on the operation by calling the v1.operations endpoint. Replace the PROJECTS, LOCATIONS and OPERATION\_NAME with the value you just received in the previous command:

```
curl -s -H 'Content-Type: application/json' \
  -H 'Authorization: Bearer '$(gcloud auth print-access-token)' \
  'https://videointelligence.googleapis.com/v1/projects/PROJECTS/locations/LOCATIONS/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": "projects/425437283751/locations/asia-east1/operations/17938636079131796601",
  "metadata": {
    "@type": "google.cloud.video.intelligence.v1.OperationMetadata"
```

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Open Google Cloud console

Username

student-02-dc49111c3d0c0

Password

URSWPP8VUec4

Project ID

qwiklabs-gcp-02-b867efc

Student Resources

Google Cloud Video Intelligence:

```
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.

Click **Check my progress** to verify the objective.

Make an annotate video request

Check my progress

Assessment Completed!

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```
student_02_dc49111c3d0c@cloudshell:~ (qwiklabs-gcp-02-b867efc1387d)$ curl -s -H 'Content-Type: application/json' \
-H 'Authorization: Bearer '$(gcloud auth print-access-token)' \
'https://videointelligence.googleapis.com/v1/projects/129268078234/locations/us-east1/operations/299082906369137752'
{
  "name": "projects/129268078234/locations/us-east1/operations/299082906369137752",
  "metadata": {
    "@type": "type.googleapis.com/google.cloud.videointelligence.v1.AnnotateVideoProgress",
    "annotationProgress": [
      {
        "inputUri": "/spls/gspl54/video/train.mp4",
        "progressPercent": 100,
        "startTime": "2025-12-28T15:39:56.914271Z",
        "updateTime": "2025-12-28T15:40:01.482594Z"
      }
    ]
  },
  "done": true,
  "response": {
    "@type": "type.googleapis.com/google.cloud.videointelligence.v1.AnnotateVideoResponse",
    "annotationResults": [
      {
        "inputUri": "/spls/gspl54/video/train.mp4",
        "segmentLabelAnnotations": [
          {
            "entity": {
              "entityId": "/m/05zdp",
              "description": "public transport",
              "languageCode": "en-US"
            },
            "categoryEntities": [
              {

```

```

        "entityId": "/m/05zdp",
        "description": "public transport",
        "languageCode": "en-US"
    },
    "categoryEntities": [
        {
            "entityId": "/m/07bsy",
            "description": "transport",
            "languageCode": "en-US"
        }
    ],
    "segments": [
        {
            "segment": {
                "startTimeOffset": "0s",
                "endTimeOffset": "12.640s"
            },
            "confidence": 0.92998904
        }
    ]
},
{
    "segment": {
        "startTimeOffset": "0s",
        "endTimeOffset": "12.640s"
    }
}
]
}
}
student 02 dc49111c3d0c@cloudshell:~ (qwiklabs-g

```



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```
"entityId": "/m/05zdp",
student_02_dc49111c3d0c@cloudshell:~ (qwiklabs-gcp-02-b867efc1387d) $ curl -s -H 'Content-Type: application/json' -H 'Authorization: Bearer '$(gcloud au
th print-access-token)' 'https://videointelligence.googleapis.com/v1/projects/129268078234/locations/us-east1/operations/299082906369137752'
{
  "name": "projects/129268078234/locations/us-east1/operations/299082906369137752",
  "metadata": {
    "@type": "type.googleapis.com/google.cloud.videointelligence.v1.AnnotateVideoProgress",
    "annotationProgress": [
      {
        "inputUri": "/spls/gsp154/video/train.mp4",
        "progressPercent": 100,
        "startTime": "2025-12-28T15:39:56.914271Z",
        "updateTime": "2025-12-28T15:40:01.482594Z"
      }
    ]
  },
  "done": true,
  "response": {
    "@type": "type.googleapis.com/google.cloud.videointelligence.v1.AnnotateVideoResponse",
    "annotationResults": [
      {
        "inputUri": "/spls/gsp154/video/train.mp4",
        "segmentLabelAnnotations": [
          {
            "entity": {
              "entityId": "/m/05zdp",
              "description": "public transport",
              "languageCode": "en-US"
            },
            "categoryEntities": [
              {
```

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