AI & Machine Learning Products (https://cloud.google.com/products/machine-learning/) Cloud Video Intelligence API (https://cloud.google.com/video-intelligence/) Documentation (https://cloud.google.com/video-intelligence/docs/) Guides

Quickstart

This page shows how to make a Video Intelligence API request with curl.

You can follow the steps on this page or try this quickstart as a Google Cloud Training lab.

TRY IT WITH A LAB (HTTPS://GOOGLE.QWIKLABS.COM/CATALOG_LAB/804?QLCAMPAIGN=77-18-GCPD-9

Before you begin

- 1. Sign in (https://accounts.google.com/Login) to your Google Account.
 - If you don't already have one, sign up for a new account (https://accounts.google.com/SignUp).
- 2. In the Cloud Console, on the project selector page, select or create a Cloud project.

Note: If you don't plan to keep the resources that you create in this procedure, create a project instead of selecting an existing project. After you finish these steps, you can delete the project, removing all resources associated with the project.

GO TO THE PROJECT SELECTOR PAGE (HTTPS://CONSOLE.CLOUD.GOOGLE.COM/PROJECTSELECT

- 3. Make sure that billing is enabled for your Google Cloud project. Learn how to confirm billing is enabled for your project (https://cloud.google.com/billing/docs/how-to/modify-project).
- 4. Enable the required API.

ENABLE THE API (HTTPS://CONSOLE.CLOUD.GOOGLE.COM/FLOWS/ENABLEAPI?APIID=VIDEOINTE

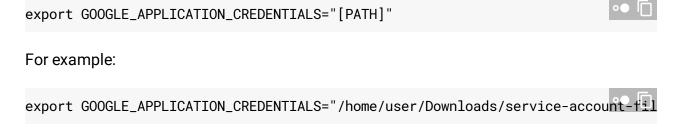
- 5. Set up authentication:
 - a. In the Cloud Console, go to the Create service account key page.

GO TO THE CREATE SERVICE ACCOUNT KEY PAGE (HTTPS://CONSOLE.CLOUD.GOOGLE.COM

b. From the Service account list, select New service account.

- c. In the Service account name field, enter a name.
- d. Don't select a value from the **Role** list. No role is required to access this service.
- e. Click **Create**. A note appears, warning that this service account has no role.
- f. Click Create without role. A JSON file that contains your key downloads to your computer.
- 6. Set the environment variable **GOOGLE_APPLICATION_CREDENTIALS** to the path of the JSON file that contains your service account key. This variable only applies to your current shell session, so if you open a new session, set the variable again.
 - Example: Linux or macOS

Replace **[PATH]** with the path of the JSON file that contains your service account key.





Replace **[PATH]** with the path of the JSON file that contains your service account key, and **[FILE_NAME]** with the filename.

With PowerShell:

```
$env:GOOGLE_APPLICATION_CREDENTIALS="[PATH]"

For example:
$env:GOOGLE_APPLICATION_CREDENTIALS="C:\Users\username\Downloads\[FILE_NAME].]

With command prompt:

set GOOGLE_APPLICATION_CREDENTIALS=[PATH]
```

7. Install and initialize the Cloud SDK (https://cloud.google.com/sdk/docs/).

Make an Annotate Video Request

Use the gcloud command line tool to call the detect-labels command on the path of the video to be analyzed. gcloud ml video detect-labels gs://cloud-ml-sandbox/video/chicago.mp4

After giving the request some time (about a minute, typically), the same request returns annotation results:

```
"name": "us-west1.104032612573769453",
"metadata": {
  "@type": "type.googleapis.com/google.cloud.videointelligence.v1.AnnotateVideoPro
  "annotationProgress": [
      "inputUri": "/cloud-ml-sandbox/video/chicago.mp4",
      "progressPercent": 100,
      "startTime": "2018-11-01T22:13:17.978847Z",
      "updateTime": "2018-11-01T22:13:29.576004Z"
    }
  1
},
"done": true,
"response": {
  "@type": "type.googleapis.com/google.cloud.videointelligence.v1.AnnotateVideoRes
  "annotationResults": [
      "inputUri": "/cloud-ml-sandbox/video/chicago.mp4",
      "segmentLabelAnnotations": [
          "entity": {
            "entityId": "/m/07bsy",
            "description": "transport",
            "languageCode": "en-US"
          "segments": [
              "segment": {
                "startTimeOffset": "0s",
                "endTimeOffset": "38.757872s"
```

```
"confidence": 0.81231534
  1
},
"entity": {
    "entityId": "/m/01n32",
    "description": "city",
    "languageCode": "en-US"
  },
  "categoryEntities": [
      "entityId": "/m/043rvww",
      "description": "geographical feature",
      "languageCode": "en-US"
    }
  ],
  "segments": [
      "segment": {
        "startTimeOffset": "0s",
        "endTimeOffset": "38.757872s"
      },
      "confidence": 0.3942462
    }
  1
},
  "entity": {
    "entityId": "/m/06gfj",
    "description": "road",
    "languageCode": "en-US"
  },
  "segments": [
      "segment": {
        "startTimeOffset": "0s",
        "endTimeOffset": "38.757872s"
      },
      "confidence": 0.86698604
    }
 ]
}
```

```
]
]
]
}
}
```

Congratulations! You've sent your first request to the Video Intelligence API.

Clean up

To avoid unnecessary Google Cloud Platform charges, use the <u>Cloud Console</u> (https://console.cloud.google.com/) to delete your project if you do not need it.

What's next

- Work through the <u>How-To Guides</u> (https://cloud.google.com/video-intelligence/docs/how-to).
- Work through the <u>Samples & Tutorials</u>
 (https://cloud.google.com/video-intelligence/docs/tutorials).
- Consult the <u>API Reference</u> (https://cloud.google.com/video-intelligence/docs/reference/rest/) for complete information on all API calls.

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