

[AI & Machine Learning Products](https://cloud.google.com/products/machine-learning/) (<https://cloud.google.com/products/machine-learning/>)

[Cloud Video Intelligence API](https://cloud.google.com/video-intelligence/) (<https://cloud.google.com/video-intelligence/>)

[Documentation](https://cloud.google.com/video-intelligence/docs/) (<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?QLCAMPAIN=77-18-GCPD-9) ([HTTPS://GOOGLE.QWIKLABS.COM/CATALOG_LAB/804?QLCAMPAIN=77-18-GCPD-9](https://google.qwiklabs.com/catalog_lab/804?QLCAMPAIN=77-18-GCPD-9))

Before you begin

1. [Sign in](https://accounts.google.com/Login) (<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) (<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/projectselector) ([HTTPS://CONSOLE.CLOUD.GOOGLE.COM/PROJECTSELECT](https://console.cloud.google.com/projectselector))

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) (<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=VIDEOINTEL) ([HTTPS://CONSOLE.CLOUD.GOOGLE.COM/FLOWS/ENABLEAPI?APIID=VIDEOINTEL](https://console.cloud.google.com/flows/enableapi?APIID=VIDEOINTEL))

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/iamaccounts) ([HTTPS://CONSOLE.CLOUD.GOOGLE.COM/](https://console.cloud.google.com/iamaccounts))

- 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.

```
export GOOGLE_APPLICATION_CREDENTIALS="[PATH]"
```

For example:

```
export GOOGLE_APPLICATION_CREDENTIALS="/home/user/Downloads/service-account-fil
```

▼ **Example:** Windows

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].js
```

With command prompt:

```
set GOOGLE_APPLICATION_CREDENTIALS=[PATH]
```

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

Make an Annotate Video Request

G-CLOUD COMMAND

COMMAND-LINE

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"
      }
    ]
  },
  "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
  }
]
},
{
  "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
    }
  ]
},
...
{
  "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 [Cloud Console](https://console.cloud.google.com/) (<https://console.cloud.google.com/>) to delete your project if you do not need it.

What's next

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

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