AI & Machine Learning Products   (https://cloud.google.com/products/machine-learning/)
Cloud Vision API   (https://cloud.google.com/vision/)
Documentation   (https://cloud.google.com/vision/docs/) Guides

Detect explicit content (Safe Search)

> **Note:** We've recently added new features or fields to Safe Search Detection. See the release notes
> (https://cloud.google.com/vision/docs/release-notes#march2018) for details.

Safe Search Detection detects explicit content such as adult content or violent content within
an image. This feature uses five categories (`adult`, `spoof`, `medical`, `violence`, and `racy`) and
returns the likelihood that each is present in a given image. See the SafeSearchAnnotation
 (https://cloud.google.com/vision/docs/reference/rpc/google.cloud.vision.v1#google.cloud.vision.v1.SafeS
earchAnnotation)
page for details on these fields.

> **Note:** Cloud Vision now supports offline **asynchronous batch image annotation** for all features. This
> asynchronous request supports up to 2000 image files and returns response JSON files that are stored in
> your Google Cloud Storage bucket. For more information about this feature, refer to Offline batch image
> annotation (https://cloud.google.com/vision/docs/batch).

Safe Search detection requests

Set up your GCP project and authentication

⌄   If you have not created a Google Cloud Platform (GCP) project
       (https://cloud.google.com/docs/overview/#projects) and service account credentials, do so
       now. Expand this section for instructions.

   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. Set up a Cloud Console project.

      SET UP A PROJECT

      Click to:

- Create or select a project.
- Enable the Cloud Vision API for that project.
- Create a service account.
- Download a private key as JSON.

You can view and manage these resources at any time in the Cloud Console (https://console.cloud.google.com/).

3. Set the environment variable **GOOGLE_APPLICATION_CREDENTIALS** to the file 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 file 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 file 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
```
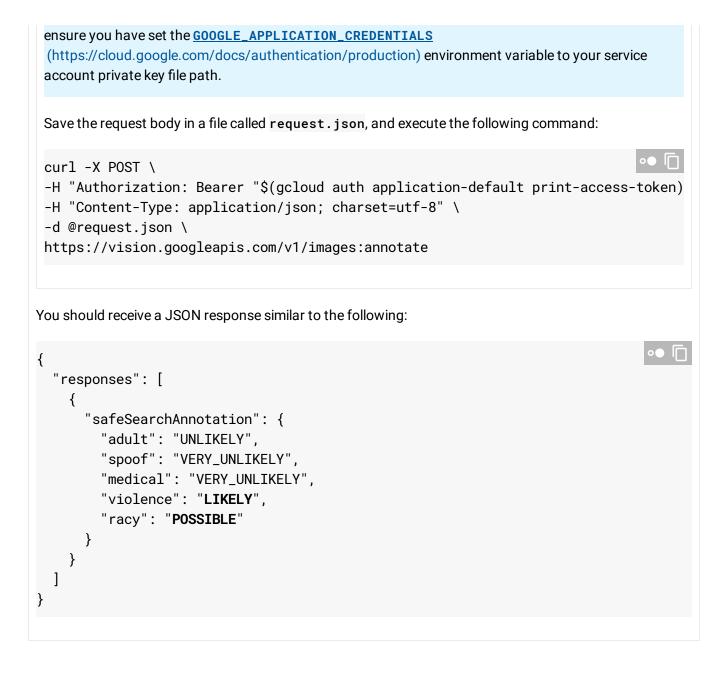
With command prompt:

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

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

Explicit content detection on a local image

The Vision API can perform feature detection on a local image file by sending the contents of the image file as a base64 encoded (https://cloud.google.com/vision/docs/base64) string in the body of your request.

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Before using any of the request data below, make the following replacements:

- **base64-encoded-image**: The base64 representation (ASCII string) of your binary image data. This string should look similar to the following string:

  - `/9j/4QAYRXhpZgAA...9tAVx/zDQDlGxn//2Q==`

  Visit the base64 encode (https://cloud.google.com/vision/docs/base64) topic for more information.

HTTP method and URL:

```
POST https://vision.googleapis.com/v1/images:annotate
```

Request JSON body:

```
{
  "requests": [
    {
      "image": {
        "content": "base64-encoded-image"
      },
      "features": [
        {
          "type": "SAFE_SEARCH_DETECTION"
        },
      ]
    }
  ]
}
```

To send your request, choose one of these options:

CURL	POWERSHELL

Note: If you are not executing the command below from Cloud Shell (https://cloud.google.com/shell/docs) or Compute Engine (https://cloud.google.com/compute/docs),

ensure you have set the **GOOGLE_APPLICATION_CREDENTIALS** (https://cloud.google.com/docs/authentication/production) environment variable to your service account private key file path.

Save the request body in a file called `request.json`, and execute the following command:

```
curl -X POST \
-H "Authorization: Bearer "$(gcloud auth application-default print-access-token)
-H "Content-Type: application/json; charset=utf-8" \
-d @request.json \
https://vision.googleapis.com/v1/images:annotate
```

You should receive a JSON response similar to the following:

```
{
  "responses": [
    {
      "safeSearchAnnotation": {
        "adult": "UNLIKELY",
        "spoof": "VERY_UNLIKELY",
        "medical": "VERY_UNLIKELY",
        "violence": "LIKELY",
        "racy": "POSSIBLE"
      }
    }
  ]
}
```

Explicit content detection on a remote image

For your convenience, the Vision API can perform feature detection directly on an image file located in Google Cloud Storage or on the Web without the need to send the contents of the image file in the body of your request.

Caution: When fetching images from HTTP/HTTPS URLs, Google cannot guarantee that the request will be completed. Your request may fail if the specified host denies the request (for example, due to request throttling or DOS (https://en.wikipedia.org/wiki/Denial-of-service_attack) prevention), or if Google throttles

requests to the site for abuse prevention. **You should not depend on externally-hosted images for production applications**.

REST & CMD LINE   **C#**   **MORE** ▾

Before using any of the request data below, make the following replacements:

- ***cloud-storage-image-uri***: the path to a valid image file in a Cloud Storage bucket. You must at least have read privileges to the file. Example:

  - ```
    gs://my-storage-bucket/img/image1.png
    ```

HTTP method and URL:

```
POST https://vision.googleapis.com/v1/images:annotate
```

Request JSON body:

```
{
  "requests": [
    {
      "image": {
        "source": {
          "imageUri": "cloud-storage-image-uri"
        }
      },
      "features": [
        {
          "type": "SAFE_SEARCH_DETECTION"
        }
      ]
    }
  ]
}
```

To send your request, choose one of these options:

CURL   **POWERSHELL**

Note: If you are not executing the command below from Cloud Shell (https://cloud.google.com/shell/docs) or Compute Engine (https://cloud.google.com/compute/docs),

ensure you have set the **GOOGLE_APPLICATION_CREDENTIALS**
(https://cloud.google.com/docs/authentication/production) environment variable to your service
account private key file path.

Save the request body in a file called `request.json`, and execute the following command:

```
curl -X POST \
-H "Authorization: Bearer "$(gcloud auth application-default print-access-token)
-H "Content-Type: application/json; charset=utf-8" \
-d @request.json \
https://vision.googleapis.com/v1/images:annotate
```

You should receive a JSON response similar to the following:

```
{
  "responses": [
    {
      "safeSearchAnnotation": {
        "adult": "UNLIKELY",
        "spoof": "VERY_UNLIKELY",
        "medical": "VERY_UNLIKELY",
        "violence": "LIKELY",
        "racy": "POSSIBLE"
      }
    }
  ]
}
```