Cloud Vision API Product Search

Creating and managing your product resources

After you have created a product set, you can create products and add them to the product set. When you create a product, you must provide a display name for the product and a product category. Currently supported categories are: `homegoods-v2`, `apparel-v2`, `toys-v2`, `packagedgoods-v1`, and `general-v1` *.

You can also supply an optional description of your product, and optional labels for your product. Labels are key/value pairs that describe your product such as `color=black` or `style=mens`. You can include labels to filter the results of a product search to only search certain product images.

> *** Legacy `productCategory` codes:** Legacy categories (`homegoods`, `apparel`, and `toys`) are still supported, but the updated `-v2` categories should be used for new products.

Creating a product

You can use online import to create an individual product. After a product is created you can then add a reference image to it or add it to one or more product sets.

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

- **project-id**: Your GCP project ID.
- **location-id**: A valid location identifier. Valid location identifiers are: `us-west1`, `us-east1`, `europe-west1`, and `asia-east1`.
- **display-name**: A string display name of your choosing.
- **product-description**: A string description of your choosing.
- **product-category**: A valid product category. The following product categories are currently available: `homegoods-v2`, `apparel-v2`, `toys-v2`, `packagedgoods-v1`, and `general-v1` .
- `productLabels`: One or more key-value pairs associated with a product. Each **key-string** must have an associated **value-string**.

HTTP method and URL:

```
POST https://vision.googleapis.com/v1/projects/project-id/locations/location-id/pr
```

Request JSON body:

```
{
  "displayName": "display-name",
  "description": "product-description",
  "productCategory": "product-category",
  "productLabels": [
      {
        "key": "key-string",
        "value": "value-string"
      }
  ]
}
```

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/projects/project-id/locations/location-id/produ
```

Example request body:

```
{
  "displayName": "sample-product-1234",
  "description": "Athletic shorts",
```

```
    "productCategory": "apparel-v2",
    "productLabels": [
        {
          "key": "style",
          "value": "womens"
        },
        {
          "key": "color",
          "value": "blue"
        }
    ]
}
```

If the request is successful, the server returns a `200 OK` HTTP status code and the response in JSON format.

You should see output similar to the following. You can use the product ID (`37b9811d308c4e42`, in this case) to perform other operations on the product.

```
{
  "name": "projects/project-id/locations/location-id/products/37b9811d308c4e42",
  "displayName": "sample-product-456",
  "description": "Athletic shorts",
  "productCategory": "apparel-v2",
  "productLabels": [
    {
      "key": "style",
      "value": "womens"
    },
    {
      "key": "color",
      "value": "blue"
    }
  ]
}
```

⌄ Creating a product using a specified `productId`

When creating a product resource you have the option of providing a specific product ID with your request.

This information is passed as a query to the request URL (`?productId=product-id`).

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

- *project-id*: Your GCP project ID.

- *location-id*: A valid location identifier. Valid location identifiers are: `us-west1`, `us-east1`, `europe-west1`, and `asia-east1`.

- *product-id*: The ID for the product that is associated with a reference image. This ID is either randomly set or specified by the user at product creation time.

- *display-name*: A string display name of your choosing.

- *product-description*: A string description of your choosing.

- *product-category*: A valid product category. The following product categories are currently available: `homegoods-v2`, `apparel-v2`, `toys-v2`, `packagedgoods-v1`, and `general-v1`.

- `productLabels`: One or more key-value pairs associated with a product. Each *key-string* must have an associated *value-string*.

HTTP method and URL:

```
POST https://vision.googleapis.com/v1/projects/project-id/locations/location-id/pr
```

Request JSON body:

```
{
  "displayName": "display-name",
  "description": "product-description",
  "productCategory": "product-category",
  "productLabels": [
      {
        "key": "key-string",
        "value": "value-string"
      }
  ]
}
```

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/projects/project-id/locations/location-id/produ
```

Example request URL and body:

```
https://vision.googleapis.com/v1/projects/project-id/locations/location-id/product
```

```
{
  "displayName": "sample-product-456",
  "description": "Athletic shorts",
  "productCategory": "apparel-v2",
  "productLabels": [
      {
        "key": "style",
        "value": "womens"
      },
      {
        "key": "color",
        "value": "blue"
      }
  ]
}
```

If the request is successful, the server returns a `200 OK` HTTP status code and the response in JSON format.

You should see output similar to the following. You can use the product ID you set (`product-id-456`, in this case) to perform other operations on the product.

```
{
  "name": "projects/project-id/locations/location-id/products/product-id-456",
  "displayName": "sample-product-456",
  "description": "Athletic shorts",
  "productCategory": "apparel-v2",
  "productLabels": [
    {
      "key": "style",
```

```
      "value": "womens"
    },
    {
      "key": "color",
      "value": "blue"
    }
  ]
}
```

Sending a request with a product ID that already exists produces the following error:

```
{
  "error": {
    "code": 409,
    "message": "Product with ID 'product-id' already exists.",
    "status": "ALREADY_EXISTS",
    "details": [
      {
        "@type": "type.googleapis.com/google.rpc.DebugInfo",
        "detail": "[ORIGINAL ERROR] generic::already_exists: Product with ID 'prod
      }
    ]
  }
}
```
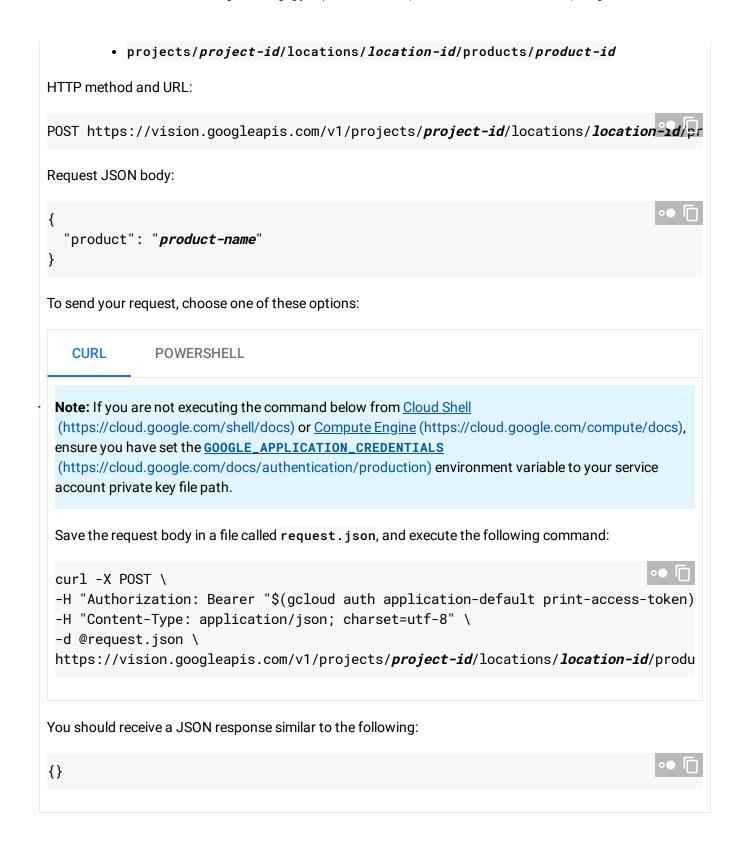
Adding a product to a product set

When you have a product and product set available you can then add the product to the
product set.

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

- **project-id**: Your GCP project ID.

- **location-id**: A valid location identifier. Valid location identifiers are: `us-west1`, `us-east1`, `europe-west1`, and `asia-east1`.

- **product-set-id**: The ID for the product set you want to run the operation on.

- **product-name**: The full resource name of the product. Format:

- projects/*project-id*/locations/*location-id*/products/*product-id*

HTTP method and URL:

```
POST https://vision.googleapis.com/v1/projects/project-id/locations/location-id/pr
```

Request JSON body:

```
{
  "product": "product-name"
}
```

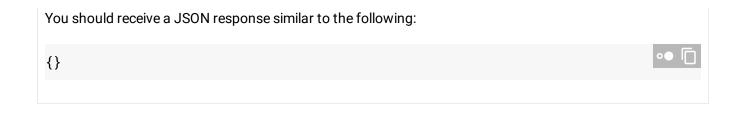To send your request, choose one of these options:

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/projects/project-id/locations/location-id/produ
```

You should receive a JSON response similar to the following:

```
{}
```

Removing a product from a product set

You can also remove an existing product from a product set.

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

- **project-id**: Your GCP project ID.

- **location-id**: A valid location identifier. Valid location identifiers are: `us-west1`, `us-east1`, `europe-west1`, and `asia-east1`.

- **product-set-id**: The ID for the product set you want to run the operation on.

- **product-name**: The full resource name of the product. Format:
    - `projects/`**project-id**`/locations/`**location-id**`/products/`**product-id**

HTTP method and URL:

```
POST https://vision.googleapis.com/v1/projects/project-id/locations/location-id/pr
```

Request JSON body:

```
{
  "product": "product-name"
}
```

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/projects/project-id/locations/location-id/produ
```

You should receive a JSON response similar to the following:

```
{}
```