

[Cloud Vision API Product Search](#)

Getting and listing resources

At any time, you can list and get any product set, product, or reference image resources you have.

Listing product sets

This section describes how to retrieve a list of all your 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`, `eu-west1`, and `asia-east1`.

HTTP method and URL:

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

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) (<https://cloud.google.com/shell/docs>) or [Compute Engine](https://cloud.google.com/compute/docs) (<https://cloud.google.com/compute/docs>), ensure you have set the [GOOGLE_APPLICATION_CREDENTIALS](https://cloud.google.com/docs/authentication/production) (<https://cloud.google.com/docs/authentication/production>) environment variable to your service account private key file path.

Execute the following command:

```
curl -X GET \  
-H "Authorization: Bearer "$(gcloud auth application-default print-access-token)  
https://vision.googleapis.com/v1/projects/project-id/locations/location-id/produ
```

You should receive a JSON response similar to the following:

▼ Response

```
{
  "productSets": [
    {
      "name": "projects/project-id/locations/location-id/productSets/product-set-i",
      "displayName": "display-name1",
      "indexTime": "2019-09-04T15:33:43.581861690Z",
      "indexError": {}
    },
    {
      "name": "projects/project-id/locations/location-id/productSets/product-set-i",
      "displayName": "display-name2",
      "indexTime": "1970-01-01T00:00:00Z",
      "indexError": {}
    },
    {
      "name": "projects/project-id/locations/location-id/productSets/product-set-i",
      "displayName": "display-name3",
      "indexTime": "2019-12-26T17:03:38.935312842Z",
      "indexError": {}
    },
    {
      "name": "projects/project-id/locations/location-id/productSets/product-set-i",
      "displayName": "display-name4",
      "indexTime": "2019-09-04T15:33:43.581861690Z",
      "indexError": {}
    },
    {
      "name": "projects/project-id/locations/location-id/productSets/product-set-i",
      "displayName": "display-name5",
      "indexTime": "1970-01-01T00:00:00Z",
      "indexError": {}
    }
  ]
}
```

Getting a single product set

You can get a single product set to use or modify.

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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`, `eu-west1`, and `asia-east1`.
- **product-set-id**: The ID for the product set you want to run the operation on.

HTTP method and URL:

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

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) (<https://cloud.google.com/shell/docs>) or [Compute Engine](https://cloud.google.com/compute/docs) (<https://cloud.google.com/compute/docs>), ensure you have set the [GOOGLE_APPLICATION_CREDENTIALS](https://cloud.google.com/docs/authentication/production) (<https://cloud.google.com/docs/authentication/production>) environment variable to your service account private key file path.

Execute the following command:

```
curl -X GET \  
-H "Authorization: Bearer "$(gcloud auth application-default print-access-token) \  
https://vision.googleapis.com/v1/projects/project-id/locations/location-id/productSets/product-set-id
```

You should receive a JSON response similar to the following:

```
{  
  "name": "projects/project-id/locations/location-id/productSets/product-set-id",  
  "displayName": "display-name",  
  "indexTime": "2019-09-04T15:33:43.581861690Z",  
  "indexError": {}  
}
```

Listing products

You can view all products in a Google Cloud Platform project, or in a specific product set.

Listing all products in a project

The following example shows how to list products in a project.

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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`, `eu-west1`, and `asia-east1`.

HTTP method and URL:

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

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) (<https://cloud.google.com/shell/docs>) or [Compute Engine](https://cloud.google.com/compute/docs) (<https://cloud.google.com/compute/docs>), ensure you have set the [GOOGLE_APPLICATION_CREDENTIALS](https://cloud.google.com/docs/authentication/production) (<https://cloud.google.com/docs/authentication/production>) environment variable to your service account private key file path.

Execute the following command:

```
curl -X GET \  
-H "Authorization: Bearer "$(gcloud auth application-default print-access-token)  
https://vision.googleapis.com/v1/projects/project-id/locations/location-id/products
```

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. Note that the number of products returned is limited to 10 at a time, and a `nextPageToken` is provided if there are more pages.

Response

```
{
  "products": [
    {
      "name": "projects/project-id/locations/location-id/products/product-id01",
      "displayName": " ",
      "description": "Athletic shorts",
      "productCategory": "apparel-v2",
      "productLabels": [
        {
          "key": "style",
          "value": "womens"
        },
        {
          "key": "color",
          "value": "blue"
        }
      ]
    },
    {
      "name": "projects/project-id/locations/location-id/products/product-id02",
      "displayName": " ",
      "description": "Athletic shorts",
      "productCategory": "apparel-v2",
      "productLabels": [
        {
          "key": "style",
          "value": "womens"
        },
        {
          "key": "color",
          "value": "blue"
        }
      ]
    },
    {
      "name": "projects/project-id/locations/location-id/products/product-id03",
```

```
"displayName": " ",
"productCategory": "apparel-v2",
"productLabels": [
  {
    "key": "style",
    "value": "women"
  },
  {
    "key": "category",
    "value": "shoe"
  }
]
},
{
  "name": "projects/project-id/locations/location-id/products/product-id04",
  "displayName": " ",
  "productCategory": "apparel-v2",
  "productLabels": [
    {
      "key": "style",
      "value": "men"
    },
    {
      "key": "category",
      "value": "shoe"
    }
  ]
},
{
  "name": "projects/project-id/locations/location-id/products/product-id05",
  "displayName": " ",
  "productCategory": "apparel-v2",
  "productLabels": [
    {
      "key": "style",
      "value": "women"
    },
    {
      "key": "category",
      "value": "dress"
    }
  ]
},
{
  "name": "projects/project-id/locations/location-id/products/product-id06",
```

```
"displayName": " ",
"productCategory": "apparel-v2",
"productLabels": [
  {
    "key": "style",
    "value": "women"
  },
  {
    "key": "category",
    "value": "dress"
  }
]
},
{
  "name": "projects/project-id/locations/location-id/products/product-id07",
  "displayName": " ",
  "productCategory": "apparel-v2",
  "productLabels": [
    {
      "key": "style",
      "value": "women"
    },
    {
      "key": "category",
      "value": "dress"
    }
  ]
},
{
  "name": "projects/project-id/locations/location-id/products/product-id08",
  "displayName": " ",
  "productCategory": "apparel-v2",
  "productLabels": [
    {
      "key": "style",
      "value": "women"
    },
    {
      "key": "category",
      "value": "dress"
    }
  ]
},
{
  "name": "projects/project-id/locations/location-id/products/product-id09",
```

```

"displayName": " ",
"productCategory": "apparel-v2",
"productLabels": [
  {
    "key": "style",
    "value": "women"
  },
  {
    "key": "category",
    "value": "dress"
  }
]
},
{
  "name": "projects/project-id/locations/location-id/products/product-id10",
  "displayName": " ",
  "productCategory": "apparel-v2",
  "productLabels": [
    {
      "key": "style",
      "value": "women"
    },
    {
      "key": "category",
      "value": "shoe"
    }
  ]
}
],
"nextPageToken": "jMGjEqhXMtN95vZz2g"
}

```

If a `nextPageToken` is returned, you can use the token to get the next page of product results. Use the `nextPageToken` from the response JSON (`jMGjEqhXMtN95vZz2g` in this example) as a `pageToken` query appended to the request URL:

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

Listing all products in a product set

The following example shows how to list products in a specific 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`, `eu-west1`, and `asia-east1`.
- **product-set-id**: The ID for the product set you want to run the operation on.

HTTP method and URL:

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

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) (<https://cloud.google.com/shell/docs>) or [Compute Engine](https://cloud.google.com/compute/docs) (<https://cloud.google.com/compute/docs>), ensure you have set the [GOOGLE_APPLICATION_CREDENTIALS](https://cloud.google.com/docs/authentication/production) (<https://cloud.google.com/docs/authentication/production>) environment variable to your service account private key file path.

Execute the following command:

```
curl -X GET \  
-H "Authorization: Bearer "$(gcloud auth application-default print-access-token)  
https://vision.googleapis.com/v1/projects/project-id/locations/location-id/produ
```

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. Note that the number of products returned is limited to 10 at a time, and a `nextPageToken` is provided if there are more pages.

Response

```
{  
  "products": [  

```

```
{
  "name": "projects/project-id/locations/location-id/products/product-id01",
  "displayName": " ",
  "description": "Athletic shorts",
  "productCategory": "apparel-v2",
  "productLabels": [
    {
      "key": "style",
      "value": "womens"
    },
    {
      "key": "color",
      "value": "blue"
    }
  ]
},
{
  "name": "projects/project-id/locations/location-id/products/product-id02",
  "displayName": " ",
  "description": "Athletic shorts",
  "productCategory": "apparel-v2",
  "productLabels": [
    {
      "key": "style",
      "value": "womens"
    },
    {
      "key": "color",
      "value": "blue"
    }
  ]
},
{
  "name": "projects/project-id/locations/location-id/products/product-id03",
  "displayName": " ",
  "productCategory": "apparel-v2",
  "productLabels": [
    {
      "key": "style",
      "value": "women"
    },
    {
      "key": "category",
      "value": "shoe"
    }
  ]
}
```

```
]
},
{
  "name": "projects/project-id/locations/location-id/products/product-id04",
  "displayName": " ",
  "productCategory": "apparel-v2",
  "productLabels": [
    {
      "key": "style",
      "value": "men"
    },
    {
      "key": "category",
      "value": "shoe"
    }
  ]
},
{
  "name": "projects/project-id/locations/location-id/products/product-id05",
  "displayName": " ",
  "productCategory": "apparel-v2",
  "productLabels": [
    {
      "key": "style",
      "value": "women"
    },
    {
      "key": "category",
      "value": "dress"
    }
  ]
},
{
  "name": "projects/project-id/locations/location-id/products/product-id06",
  "displayName": " ",
  "productCategory": "apparel-v2",
  "productLabels": [
    {
      "key": "style",
      "value": "women"
    },
    {
      "key": "category",
      "value": "dress"
    }
  ]
}
```

```
]
},
{
  "name": "projects/project-id/locations/location-id/products/product-id07",
  "displayName": " ",
  "productCategory": "apparel-v2",
  "productLabels": [
    {
      "key": "style",
      "value": "women"
    },
    {
      "key": "category",
      "value": "dress"
    }
  ]
},
{
  "name": "projects/project-id/locations/location-id/products/product-id08",
  "displayName": " ",
  "productCategory": "apparel-v2",
  "productLabels": [
    {
      "key": "style",
      "value": "women"
    },
    {
      "key": "category",
      "value": "dress"
    }
  ]
},
{
  "name": "projects/project-id/locations/location-id/products/product-id09",
  "displayName": " ",
  "productCategory": "apparel-v2",
  "productLabels": [
    {
      "key": "style",
      "value": "women"
    },
    {
      "key": "category",
      "value": "dress"
    }
  ]
}
```

```

    ]
  },
  {
    "name": "projects/project-id/locations/location-id/products/product-id10",
    "displayName": " ",
    "productCategory": "apparel-v2",
    "productLabels": [
      {
        "key": "style",
        "value": "women"
      },
      {
        "key": "category",
        "value": "shoe"
      }
    ]
  }
],
"nextPageToken": "e5nEGpoVEZq1BbZRhQ"
}

```

If a `nextPageToken` is returned, you can use the token to get the next page of product results. Use the `nextPageToken` from the response JSON (`e5nEGpoVEZq1BbZRhQ` in this example) as a `pageToken` query appended to the request URL:

[https://vision.googleapis.com/v1/projects/**project-id**/locations/**location-id**/products](https://vision.googleapis.com/v1/projects/project-id/locations/location-id/products)

Getting a single product

You can also get a single product to use or modify.

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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`, `eu-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.

HTTP method and URL:

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

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) (<https://cloud.google.com/shell/docs>) or [Compute Engine](https://cloud.google.com/compute/docs) (<https://cloud.google.com/compute/docs>), ensure you have set the [GOOGLE_APPLICATION_CREDENTIALS](https://cloud.google.com/docs/authentication/production) (<https://cloud.google.com/docs/authentication/production>) environment variable to your service account private key file path.

Execute the following command:

```
curl -X GET \  
-H "Authorization: Bearer "$(gcloud auth application-default print-access-token)  
https://vision.googleapis.com/v1/projects/project-id/locations/location-id/produ
```

You should receive a JSON response similar to the following:

```
{  
  "name": "projects/project-id/locations/location-id/products/product-id",  
  "displayName": " ",  
  "productCategory": "apparel-v2",  
  "productLabels": [  
    {  
      "key": "style",  
      "value": "women"  
    },  
    {  
      "key": "category",  
      "value": "dress"  
    }  
  ]  
}
```

Listing reference images

A product can have multiple associated reference images. The following example describes how to obtain all reference images linked to a single product.

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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`, `eu-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.

HTTP method and URL:

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

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) (<https://cloud.google.com/shell/docs>) or [Compute Engine](https://cloud.google.com/compute/docs) (<https://cloud.google.com/compute/docs>), ensure you have set the [GOOGLE_APPLICATION_CREDENTIALS](https://cloud.google.com/docs/authentication/production) (<https://cloud.google.com/docs/authentication/production>) environment variable to your service account private key file path.

Execute the following command:

```
curl -X GET \  
-H "Authorization: Bearer "$(gcloud auth application-default print-access-token)  
https://vision.googleapis.com/v1/projects/project-id/locations/location-id/products
```

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. The default number of images returned is 10 at a time, and a `nextPageToken` is provided if there are more pages.

The below response is for a product with two reference images. One of these images has associated bounding box, while the other image does not have a bounding polygon.

Response

```
{
  "referenceImages": [
    {
      "name": "projects/project-id/locations/location-id/products/product-id/refer
      "uri": "gs://storage-bucket/filename1.jpg",
      "boundingPolys": [
        {
          "normalizedVertices": [
            {
              "x": 0.10443038,
              "y": 0.06962025
            },
            {
              "x": 0.8924051,
              "y": 0.06962025
            },
            {
              "x": 0.8924051,
              "y": 0.87974685
            },
            {
              "x": 0.10443038,
              "y": 0.87974685
            }
          ]
        }
      ]
    },
    {
      "name": "projects/project-id/locations/location-id/products/product-id/refer
      "uri": "gs://storage-bucket/filename2.jpg"
    }
  ]
}
```

If the response contains a `nextPageToken`, there are more results. You can repeat the request, adding a `pageToken` parameter with the value of `nextPageToken` (for example, `1LqhSgZfM_uWK0xvog`):

[https://vision.googleapis.com/v1/projects/**project-id**/locations/**location-id**/products](https://vision.googleapis.com/v1/projects/project-id/locations/location-id/products)

Getting a single reference image

You can also get a single reference image linked to a product.

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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`, `eu-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.
- **image-id**: The ID of the target image resource.

HTTP method and URL:

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

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) (<https://cloud.google.com/shell/docs>) or [Compute Engine](https://cloud.google.com/compute/docs) (<https://cloud.google.com/compute/docs>), ensure you have set the [GOOGLE_APPLICATION_CREDENTIALS](https://cloud.google.com/docs/authentication/production) (<https://cloud.google.com/docs/authentication/production>) environment variable to your service account private key file path.

Execute the following command:

```
curl -X GET \  
-H "Authorization: Bearer "$(gcloud auth application-default print-access-token)  
https://vision.googleapis.com/v1/projects/project-id/locations/location-id/produ
```

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. The example reference image has associated bounding boxes specified.

Response

```
{
  "name": "projects/project-id/locations/location-id/products/product-id/reference",
  "uri": "gs://storage-bucket/filename.jpg",
  "boundingPolys": [
    {
      "normalizedVertices": [
        {
          "x": 0.10443038,
          "y": 0.06962025
        },
        {
          "x": 0.8924051,
          "y": 0.06962025
        },
        {
          "x": 0.8924051,
          "y": 0.87974685
        },
        {
          "x": 0.10443038,
          "y": 0.87974685
        }
      ]
    }
  ]
}
```

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