Cloud AutoML Vision Object Detection

Before You Begin

1. This product requires you to use `us-central1` as the specified region.

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Before you can use AutoML Vision Object Detection, you must enable it for your project. Follow the instructions on this page, or visit the AutoML Vision Object Detection UI (https://console.cloud.google.com/vision) and follow prompts to enable billing and enable the API for a new project.

Set up your project

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 Google 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 AutoML and Cloud Storage APIs.

   ENABLE THE APIS (HTTPS://CONSOLE.CLOUD.GOOGLE.COM/FLOWS/ENABLEAPI?APIID=STORAGE-

5. Install the `gcloud` command line tool (https://cloud.google.com/sdk/downloads#interactive).

6. Follow the instructions to create a service account and download a key file (https://cloud.google.com/iam/docs/creating-managing-service-accounts#creating_a_service_account)

for that account.

★ Service accounts are the only authentication option available with the AutoML API.

7. Set the `GOOGLE_APPLICATION_CREDENTIALS` environment variable to the path to the service account key file that you downloaded when you created the service account.

```
export GOOGLE_APPLICATION_CREDENTIALS=key-file
```

8. Set the `PROJECT_ID` environment variable to your Project ID
(https://cloud.google.com/resource-manager/docs/creating-managing-projects#identifying_projects)

.

```
export PROJECT_ID=your-project-id
```

The AutoML API calls and resource names include your Project ID in them. The `PROJECT_ID` environment variable provides a convenient way to specify the ID.

9. If you are an owner for your project, add your service account to the **AutoML Editor** IAM role, replacing *service-account-name* with the name of your new service account. For example, `service-account1@myproject.iam.gserviceaccount.com`.

```
gcloud auth login
gcloud projects add-iam-policy-binding $PROJECT_ID \
    --member="serviceAccount:service-account-name" \
    --role="roles/automl.editor"
```

10. Otherwise (if you are not a project owner), ask a project owner to add both your user ID and your service account to the **AutoML Editor** IAM role.