



Connecting to Google BigQuery v1.1

Instructions on how to set up and connect to Google BigQuery

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Overview

Google BigQuery is a fully-managed data warehouse service that enables users to query massive datasets in real-time.

To enable Pyramid to connect to Google BigQuery, users must perform the following steps:

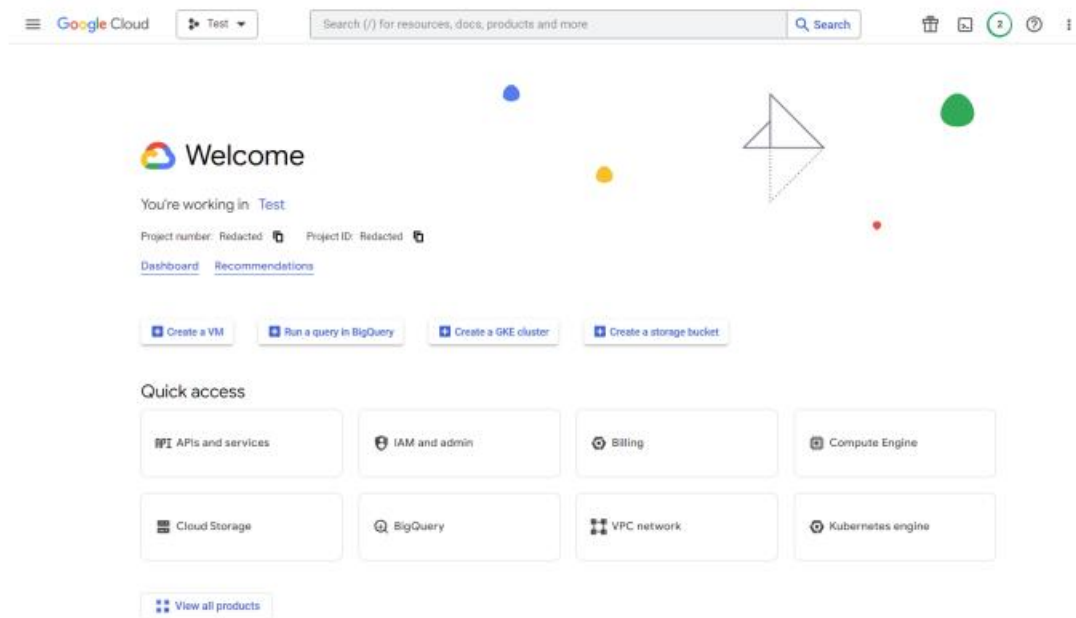
- Set up a Google Cloud Project
- Enable the BigQuery API
- Establish a BigQuery Connection in Pyramid

Note: Ensure that your version of Pyramid is version 2023.01 or higher.

Set up a Google Cloud project

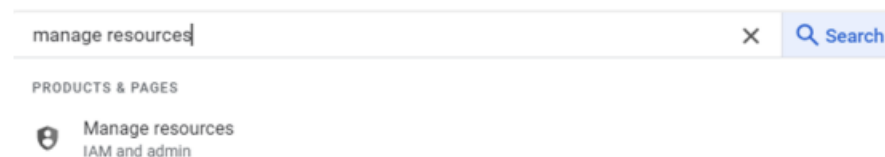
1. Sign in to Google Cloud Console.

Visit the Google Cloud Console at <https://console.cloud.google.com/> and sign in with your Google Account. If you don't have a Google Account, you'll need to create one.



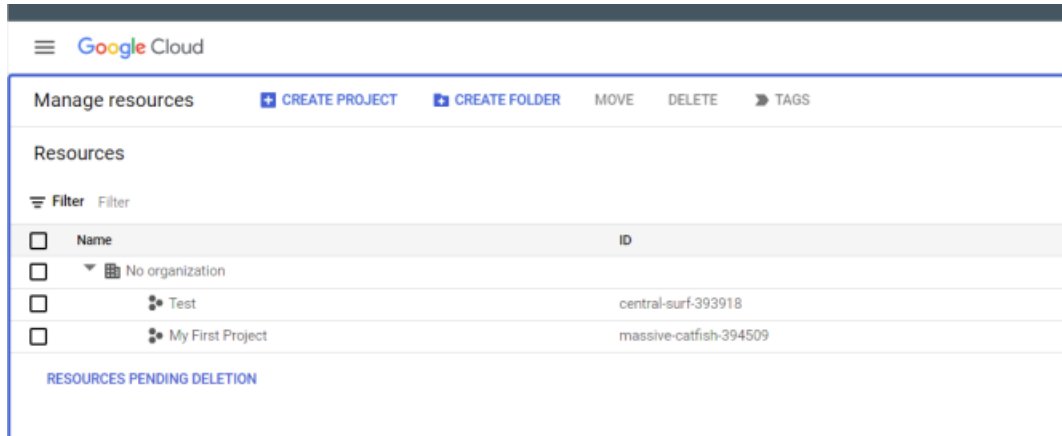
2. Go to the 'Manage resources' page.

Type "Manage Resources" in the search bar at the top. This will take you to the manage resources page.



3. Create a new project:

In the 'Manage resources' page, click on the 'CREATE PROJECT' button at the top of the page. If you have other projects, you might have to first click on the project dropdown on the header bar, and then click on "NEW PROJECT" button.

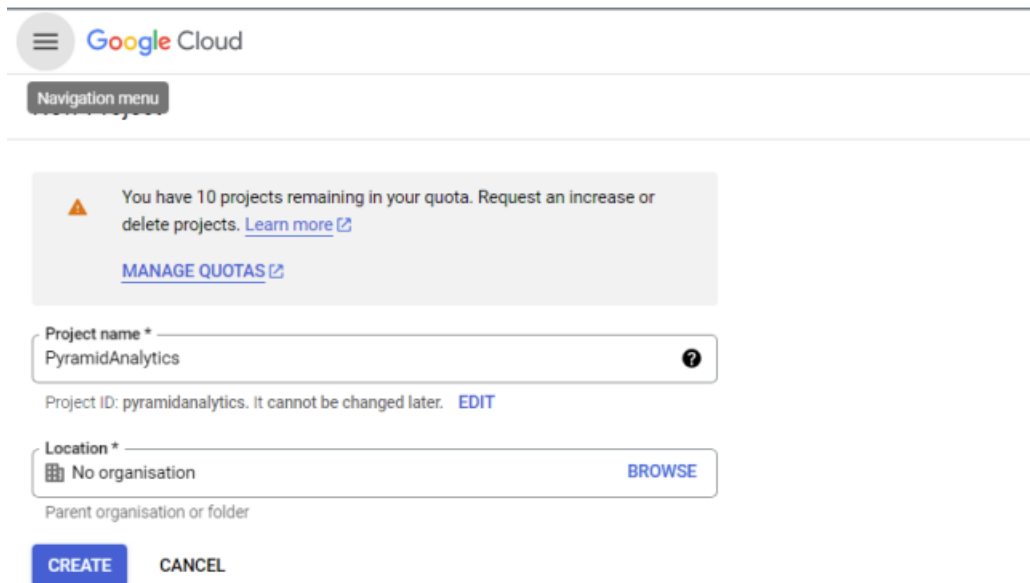


4. Enter your project details:

In the new project form, enter your desired Project Name and Project ID. The Project ID is a unique identifier for your project that can be used in commands and in configurations.

Note: If you're part of an organization, you may have to select the organization where this project will reside, or you can choose "No organization" for personal projects.

Once you've filled out all the information, click on the 'CREATE' button to create your new Google Cloud Project.



You have 10 projects remaining in your quota. Request an increase or delete projects. [Learn more](#)

[MANAGE QUOTAS](#)

Project name *
PyramidAnalytics

Project ID: pyramidanalytics. It cannot be changed later. [EDIT](#)

Location *
No organisation [BROWSE](#)

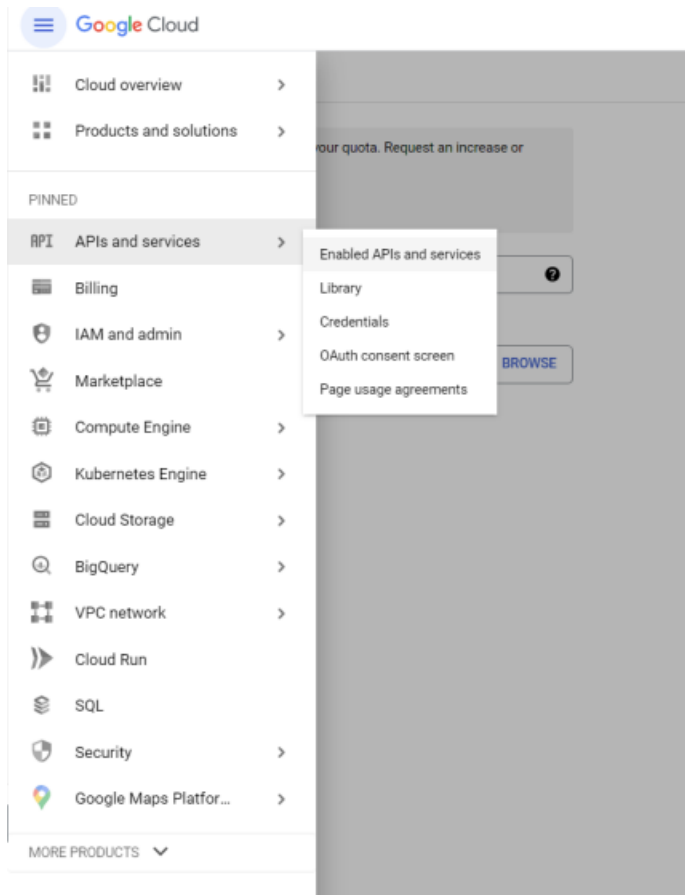
Parent organisation or folder

[CREATE](#) [CANCEL](#)

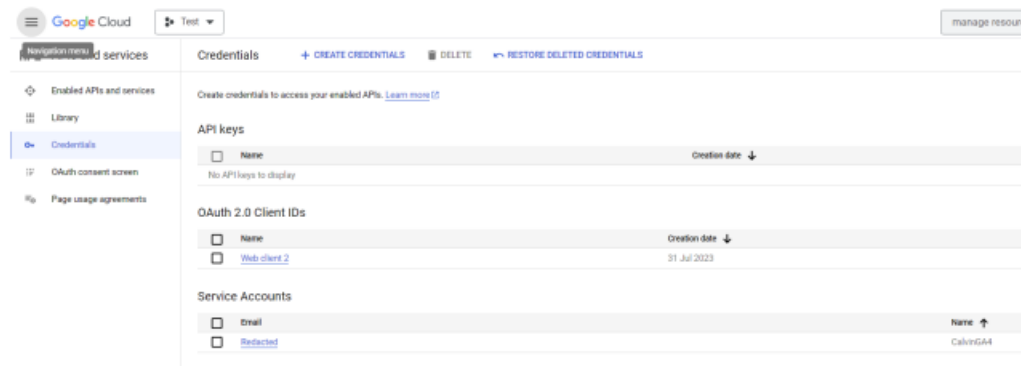
5. After creating your project, you may want to enable billing, especially if you plan to use resources that aren't available in the free tier.

Enable the BigQuery API

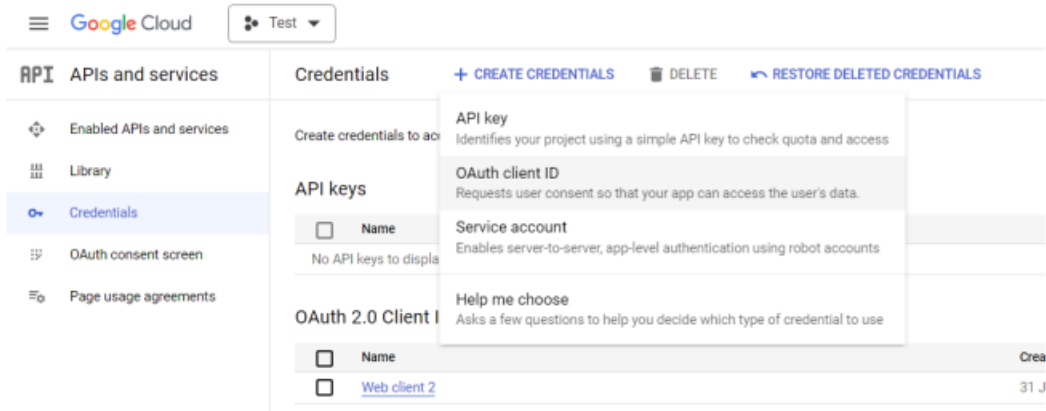
1. Click on the left menu and go to **APIs and Services > Enabled APIs and Services** in your Google Cloud Console.



2. Create your Credentials by going to the Google Cloud Console, opening the side menu, and navigating to **APIs & Services > Credentials**:



3. Click the 'Create credentials' button and select one of the following options:
 - a. OAuth client ID
 - b. Service Account



You will be taken to a form to fill out the details.

OAuth client ID

To create an OAuth client ID:

1. Select 'Web Application' at the top.
It's important that you add the URL of the Pyramid instance in the 'Authorised JavaScript origins' section. For example, I would add 'https://partners.pyramidanalytics.com/' here. Then, in the redirect URI section, add '{Your Pyramid URL}/AuthenticateCallbackPage'. This URL is where Google will redirect users after they authenticate with Google.

Google Cloud

Test

APIs and services

Enabled APIs and services

Library

Credentials

OAuth consent screen

Page usage agreements

Create OAuth client ID

A client ID is used to identify a single app to Google's OAuth servers. If your app runs on multiple platforms, each will need its own client ID. See [Setting up OAuth 2.0](#) for more information. [Learn more](#) about OAuth client types.

Application type *

Web application

Name *

Web client 3

The name of your OAuth 2.0 client. This name is only used to identify the client in the console and will not be shown to end users.

The domains of the URIs you add below will be automatically added to your [OAuth consent screen](#) as [authorised domains](#).

Authorised JavaScript origins

For use with requests from a browser

URIs 1 *

https://sesandbox.pyramidanalytics.com

+ ADD URI

Authorised redirect URIs

For use with requests from a web server

URIs 1 *

https://sesandbox.pyramidanalytics.com/AuthenticateCallbackPage

+ ADD URI

Note: It may take five minutes to a few hours for settings to take effect

CREATE

CANCEL

- You may be prompted to configure the consent screen. Fill out the necessary information and save it.
- Click 'Create' and take note of your 'Client ID' and 'Client Secret'. These are needed for Pyramid to identify itself to Google.

← Client ID for Web application DELETE

Name *
Web client 2
The name of your OAuth 2.0 client. This name is only used to identify the client in the console and will not be shown to end users.

The domains of the URIs you add below will be automatically added to your OAuth consent screen as [authorized domains](#).

Additional information

Client ID ID-4a9a-googleusercontent.com
Creation date 31 July 2023 at 11:05:06 GMT+1

Client secrets

If you are in the process of changing client secrets, you can manually rotate them without downtime. [Learn more](#)

Client secret Redacted  
Creation date 31 July 2023 at 11:05:06 GMT+1
Status  Enabled

Authorised JavaScript origins 
For use with requests from a browser

URI 1 *
<https://g2prod-pyramidanalytics.com>

+ ADD URI

Authorised redirect URIs 
For use with requests from a web server

URI 1 *
<https://sandbox-pyramidanalytics.com/>

URI 2 *
<https://g2prod-pyramidanalytics.com/>

URI 3 *
<https://g2prod-pyramidanalytics.com/AuthenticateCallbackPage>

+ ADD URI

Note: It may take five minutes to a few hours for settings to take effect

SAVE CANCEL

Service account

To create a Service account:

1. In the *Create Service account* page, give the account a name and click **Create and continue**:

Create service account

← Create service account

1 Create service account

Service account name
Display name for this service account

Service account ID *  
Email address: bigquerysa@leafy-tractor-382612.iam.gserviceaccount.com



Service account description
Describe what this service account will do

Create and continue

2 Permissions (optional)

3 Principals with access (optional)

Create and close Cancel

2. To allow reading data from BigQuery, choose the following roles:
 - a. BigQuery Data Viewer
 - b. BigQuery Job User

Create service account

← Create service account

✓ Create service account

2 Permissions (optional)

Grant this service account access to Pyramid so that it has permission to complete specific actions on the resources in your project. [Learn more](#)

Role: BigQuery Data Viewer IAM condition (optional) ? [+ Add IAM condition](#)

Access to view datasets and all of their contents

Role: BigQuery Job User IAM condition (optional) ? [+ Add IAM condition](#)

Access to run jobs

[+ Add another role](#)

[Help me choose roles](#)

[Continue](#)

3 Principals with access (optional)

- To allow the service account to write data, add BigQuery Data Editor.
- Go to the new service account and select keys, then **Add key** > **Create new key**. The Service account JSON file, that will be used when establishing your connection, is created:

Service account: 116784331183285938240 / Keys

← bigquerysa

Details Permissions **Keys** Metrics Logs Principals with access

Keys

⚠ Service account keys could pose a security risk if compromised. We recommend you avoid downloading accounts on Google Cloud.

ℹ Google automatically disables service account keys detected in public repositories. You can customize the

Add a new key pair or upload a public key certificate from an existing key pair.

Block service account key creation using [organization policies](#).
[Learn more about setting organization policies for service accounts](#)

Add key ▼

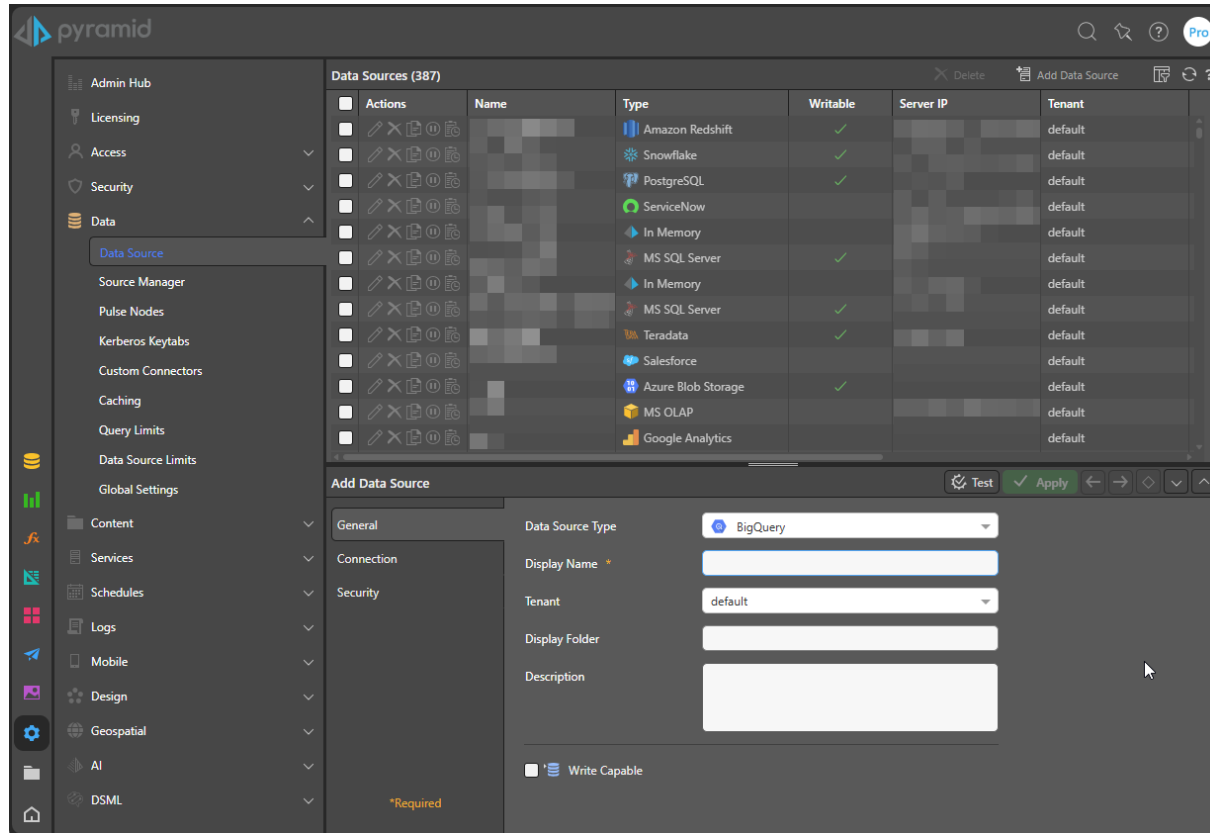
Create new key

Upload existing key

key	Creation date	Expiration date
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Establish a BigQuery connection in Pyramid

1. In the admin console, go to Data Sources and add a new data source. Select BigQuery, give your connection a name.

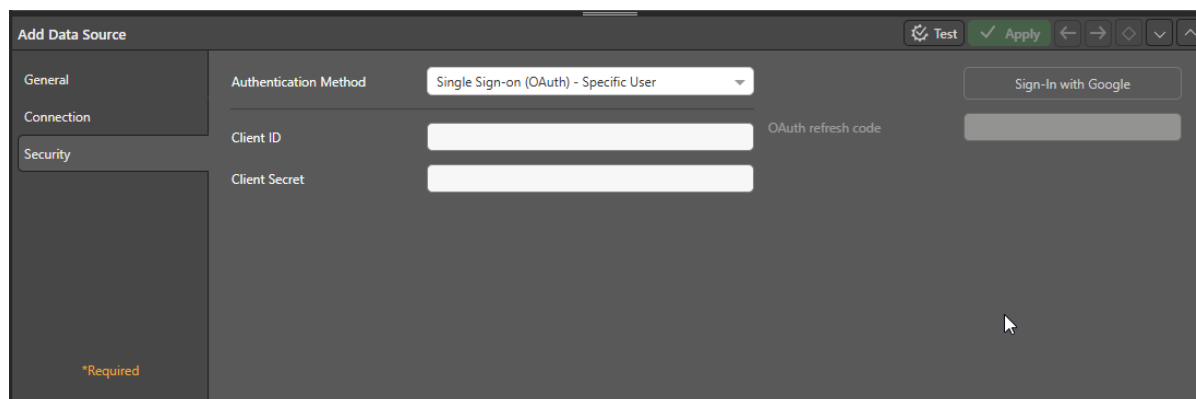


2. Go to 'Security' and supply the appropriate authentication details.

OAuth client ID

If you are authenticating through an OAuth client ID:

1. Select **Single Sign-on (OAuth) – Specific User** from the Authentication Method dropdown list.
2. Paste your Client ID and Client Secret into the other fields.



3. If you have completed the previous steps correctly, you will be asked to sign in with your Google account associated with Google Cloud. You will then need to accept the relevant permissions by clicking 'Allow'. You will then be able to access your BigQuery database in Model.

Possible issue

If you happen to delete the BigQuery connection from Pyramid, you will not be able to recreate it as the refresh token will not be generated again by Google Cloud until it expires. You will need to manually delete the Pyramid connection from the 'Allowed Third Party Connections'.

Service account

If you are authenticating using a Service account:

1. Select **Service Account** from the Authentication Method dropdown list.
2. Upload the JSON file that was created when you added your key.

