

Google Sheet Service Integration

- [Access Google Sheets Data Using a Service Account](#)

Access Google Sheets Data Using a Service Account

Accessing Google Sheets data programmatically can be essential for server-side applications that need to read or manipulate spreadsheet data without human interaction. Whether you're automating reports, synchronizing data, or managing inventory systems, accessing Google Sheets through a Service Account provides a secure and efficient solution for backend environments.

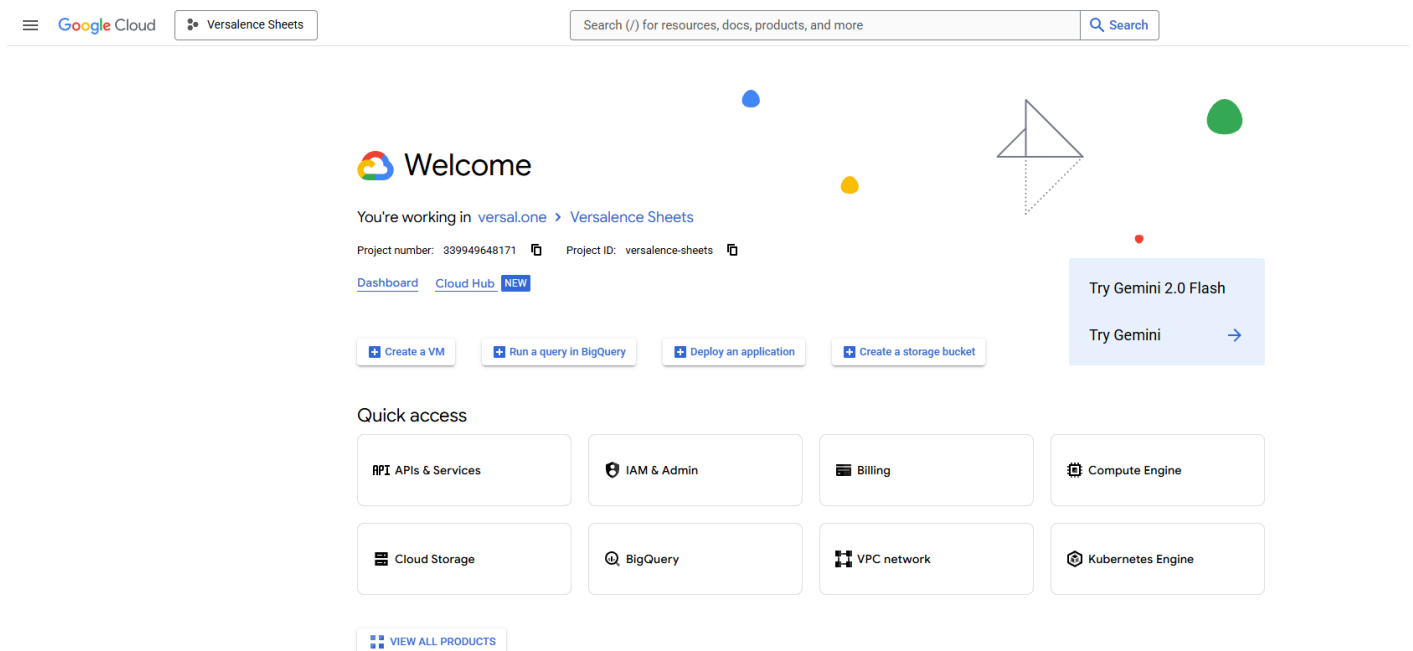
This tutorial will guide you through accessing a Google Sheet's data using a Service Account, which is ideal for server environments.

Prerequisites

Before you start, ensure you have the following:

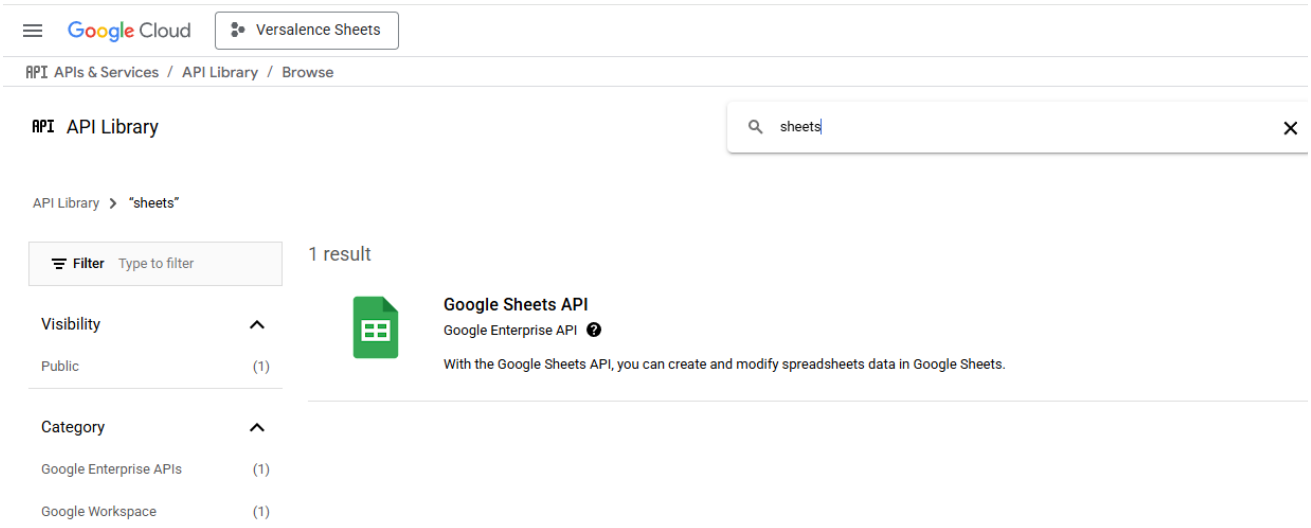
- A **Google Account**: Access to the Google Cloud Console.
- An **Existing Google Spreadsheet**: A Google Sheet that you want to access.

Step 1: Enable the Google Sheets API



To access Google Sheets programmatically, you first need to enable the Google Sheets API in your Google Cloud project.

1. **Go to the Google Cloud Console.**
2. **Create a New Project** (if you don't have one):
 - Click the project dropdown at the top of the page.
 - Click **New Project**.
 - Enter a project name (e.g., "Google Sheets Node.js Access").
 - Click **Create**.
3. **Select Your Project:**
 - Ensure your new project is selected in the project dropdown.



4. **Enable the Google Sheets API:**
 - Navigate to **APIs & Services > Dashboard**.
 - Click **Enable APIs and Services**.
 - Search for **Google Sheets API**.
 - Click on **Google Sheets API** and then click **Enable**.

With the API enabled, your project can now interact with Google Sheets data programmatically, preparing for the next steps.

Step 2: Create a Service Account and Generate a Key File

A Service Account allows server-side applications to authenticate without user interaction.

Google Cloud | Versalence Sheets | Search (/) for resources, docs, products, and more

APIs & Services | Credentials | + Create credentials | Delete | Restore deleted credentials

Enabled APIs & services | Library | Credentials | OAuth consent screen | Page usage agreements

Create credentials to access your enabled APIs. [Learn more](#)

Remember to configure the OAuth consent screen with information about your application. [Configure consent screen](#)

API Keys

<input type="checkbox"/>	Name	Creation date ↓	Restrictions	Actions
<input type="checkbox"/>	API key 1	Apr 12, 2025	—	Show key ⋮

OAuth 2.0 Client IDs

<input type="checkbox"/>	Name	Creation date ↓	Type	Client ID	Actions
No OAuth clients to display					

Service Accounts [Manage service accounts](#)

<input type="checkbox"/>	Email	Name ↑	Actions
<input type="checkbox"/>	versalence-sheets-service-acc@versalence-sheets.iam.gserviceaccount.com	Versalence Sheets Service Acc	Edit Delete

1. **Navigate to Service Accounts:**
 - Go to **APIs & Services > Credentials**.
 - Click on **Create Credentials** and select **Service Account**.
2. **Create a Service Account:**
 - **Service Account Name:** Enter a name (e.g., “sheets-access-account”).
 - **Service Account ID:** This will auto-populate based on the name.
 - **Description:** Optional.
 - Click **Create and Continue**.
3. **Set Service Account Permissions:**
 - For this tutorial, you don’t need to grant any specific roles.
 - Click **Continue**.
4. **Grant Users Access to This Service Account:**
 - Skip this step by clicking **Done**.
5. **Generate a JSON Key File:**
 - You should now see your service account listed.
 - Click on the **Service Account** you just created.
 - Navigate to the **Keys** tab.
 - Click **Add Key > Create New Key**.
 - Choose **JSON** as the key type.
 - Click **Create**.
 - A JSON key file will be downloaded to your computer (e.g., `service-account-key.json`).
6. **Secure the Key File:**

Important: Do not commit this file to version control. It’s sensitive information.

Step 3: Share the Spreadsheet with the Service Account Email

The Service Account acts like a virtual user. You need to share the spreadsheet with the Service Account's email address.

The screenshot shows a Google Sheet titled "Claims Data Worksheet" with the following columns: added_date, status, client_name, client_email, client_phone, letter_received_date, date_of_loss, law_firm_name, and corporation. The "Share" dialog box is open, showing the following details:

- People with access:**
 - Lijo Mathew (you) - Owner
 - versalence-sheets-service-acc@versalence-sheets.iam.gserviceaccount.com - Editor
- General access:**
 - Anyone with the link - Editor

The dialog also includes a "Copy link" button and a "Done" button.

1. Get the Service Account Email:

- In the **Details** tab of your Service Account, locate the **Email** field.
- It will look like: `your-service-account-name@your-project-id.iam.gserviceaccount.com`.

2. Share the Spreadsheet:

- Open your Google Sheet in a browser.
- Click the **Share** button.
- Enter the Service Account email.
- Set the permission to **Editor** (or **Viewer** if you only need read access).
- Click **Send**.