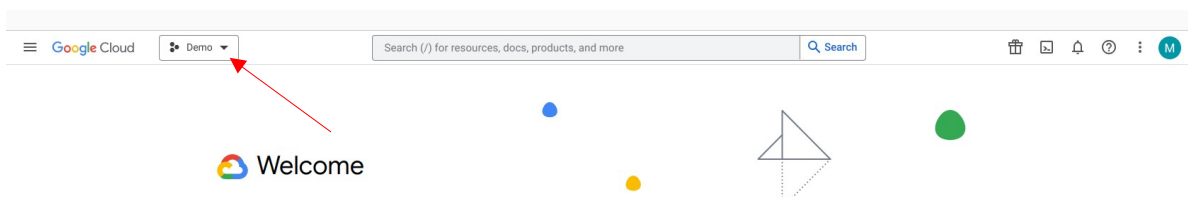


Google Drive Crawler Setup Guide

This document will walk you through the steps required to setup and gather the necessary details required to set up a Google drive crawler on SimSage. To follow this guide, you will need access to an administrator account on your Google system.

Create Service Account

1. Go to the Google portal and sign into the required user account: <https://console.cloud.google.com/>
2. Navigate to your desired project using the dropdown project list.



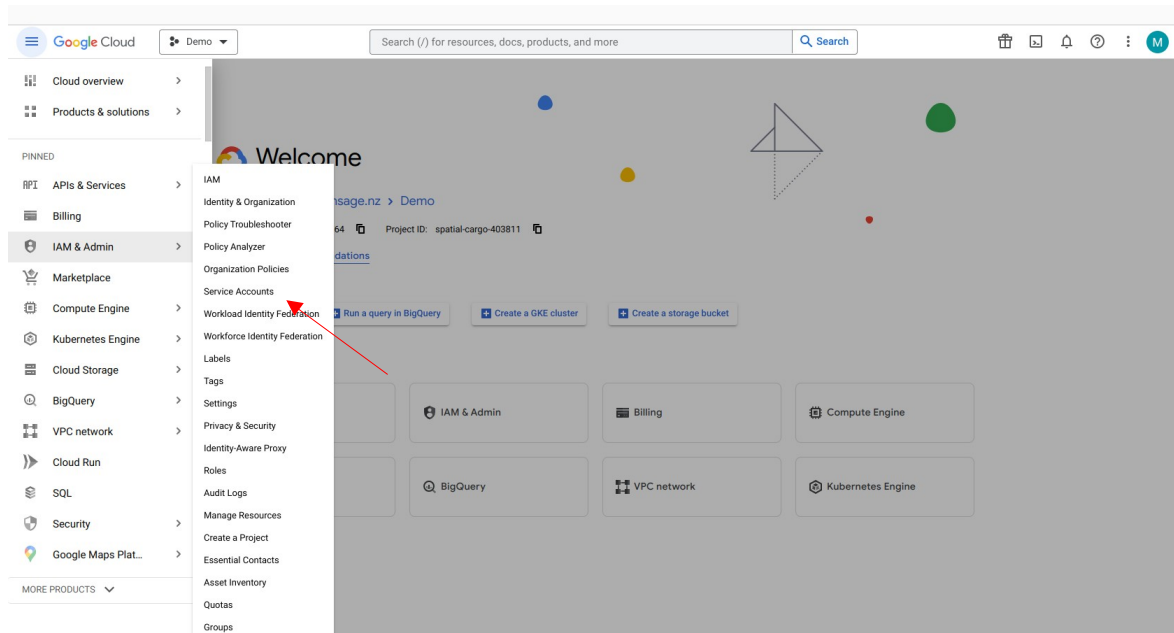
3. Or, create a new project using the new project button after clicking the dropdown project list.



4. Populate the “New Pordject” form with the necessary values.
In our example we used the following values. You do not need to use these specific values.

Project name: Demo
Organization: simsage.nz
location: simsage.nz

- Next, using the left-hand side navigation menu. Go to “IAM & Admin” > “Service Accounts”.



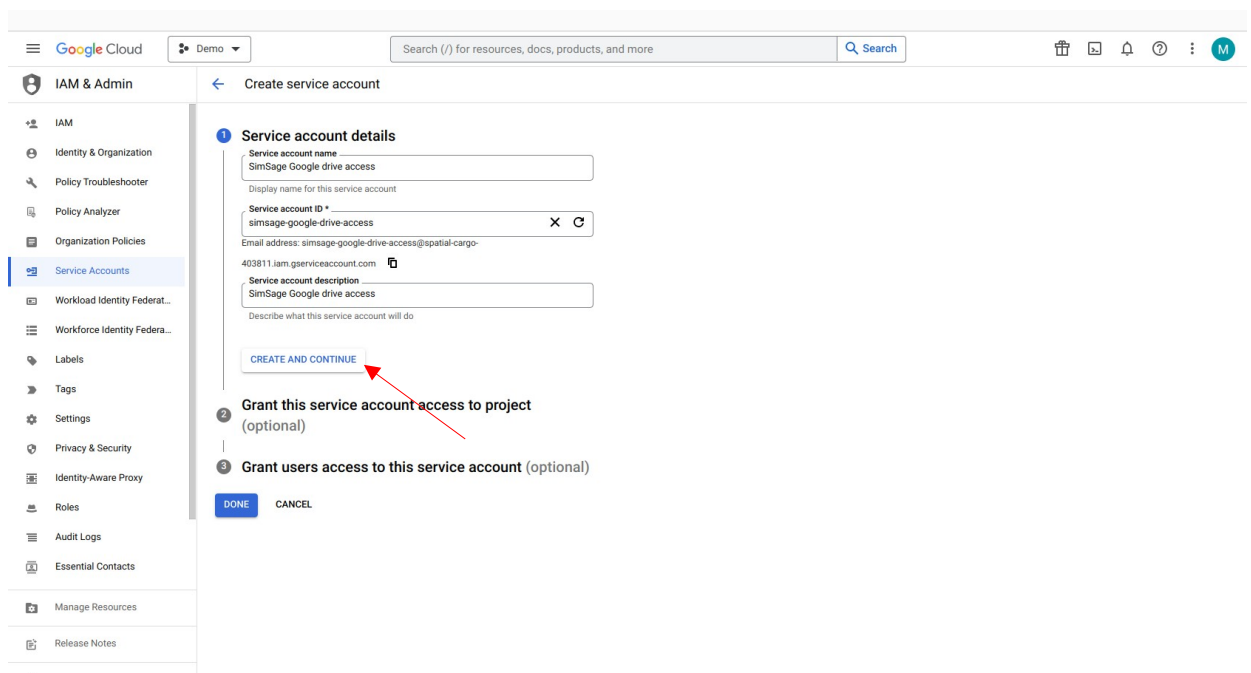
- On the Service accounts screen click “+ CREATE SERVICE ACCOUNT”.
- The following values are our suggestions. You do not need to use these specific values.

Service account name: SimSage Google drive access

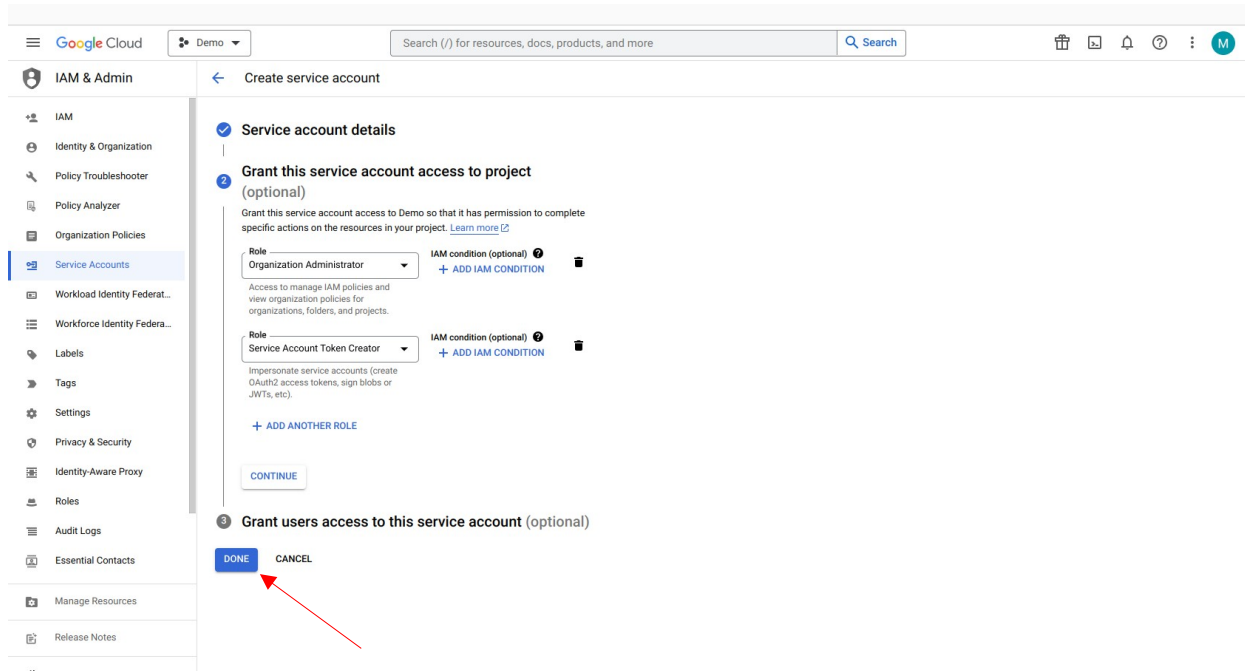
Service account ID: simsage-google-drive-access

Service account description: SimSage Google drive access

- Click “CREATE AND CONTINUE” to Grant this service account access to the project.



9. Next, use the “Select a role” dropdown to assign the “Organization Administrator” Role to the service account. **NB: This gives SimSage access to all resources in your Organisation.**
10. Click “+ ADD ANOTHER ROLE” to add the other required role.
11. Again, use the “Select a role” dropdown to assign the “Service Account Token Creator” Role to the service account. **NB: This allows SimSage to impersonate your users and access accounts as required.**
12. Click “Done”.



The screenshot shows the Google Cloud IAM & Admin console. The left sidebar lists various IAM and Admin tools, with 'Service Accounts' highlighted. The main content area is titled 'Create service account' and shows the 'Grant this service account access to project' step. Two roles are assigned to the service account: 'Organization Administrator' and 'Service Account Token Creator'. A red arrow points to the 'DONE' button at the bottom of the 'Grant users access to this service account' section.

Google Cloud Demo Search (/) for resources, docs, products, and more Search

IAM & Admin Create service account

Service account details

Grant this service account access to project (optional)

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

Role: Organization Administrator IAM condition (optional) + ADD IAM CONDITION

Access to manage IAM policies and view organization policies for organizations, folders, and projects.

Role: Service Account Token Creator IAM condition (optional) + ADD IAM CONDITION

Impersonate service accounts (create OAuth2 access tokens, sign blobs or JWTs, etc).

+ ADD ANOTHER ROLE

CONTINUE

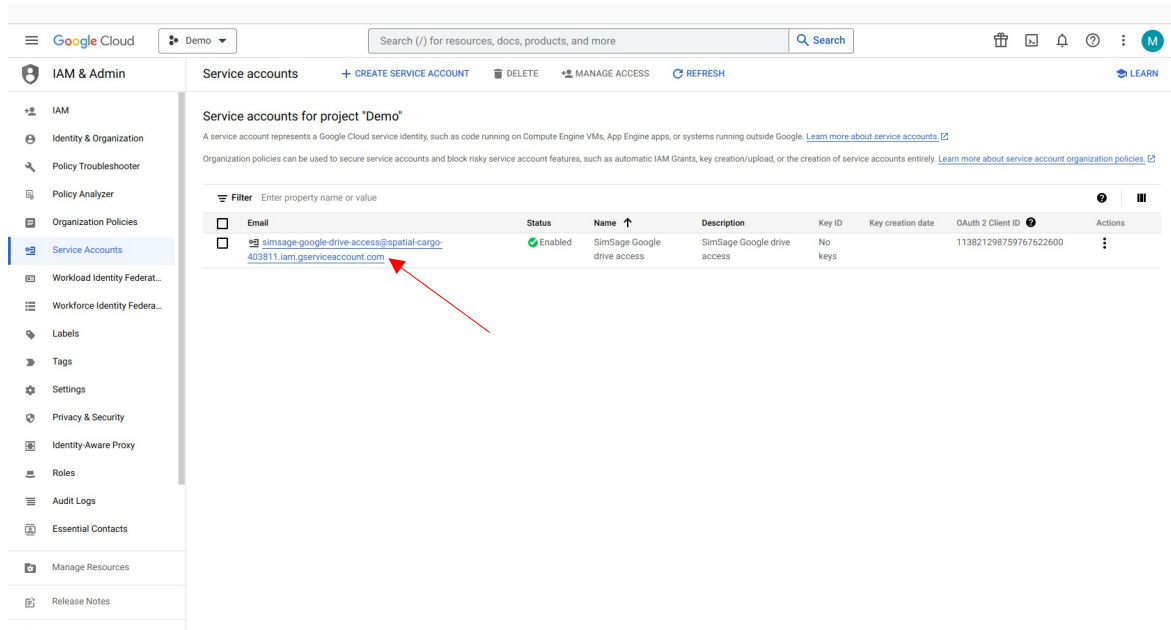
Grant users access to this service account (optional)

DONE CANCEL

Create JSON key

Now the service account has been created. In our case this is called “simsage-google-drive-access@spatial-cargo-403811.iam.gserviceaccount.com”. We now need to create a key for the service account to allow SimSage to use their account. **NB: The service account name will differ for your organisation.**

1. Navigate to your new service accounts account details by clicking on its name.



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IAM & Admin Service accounts + CREATE SERVICE ACCOUNT DELETE MANAGE ACCESS REFRESH LEARN

Service accounts for project "Demo"

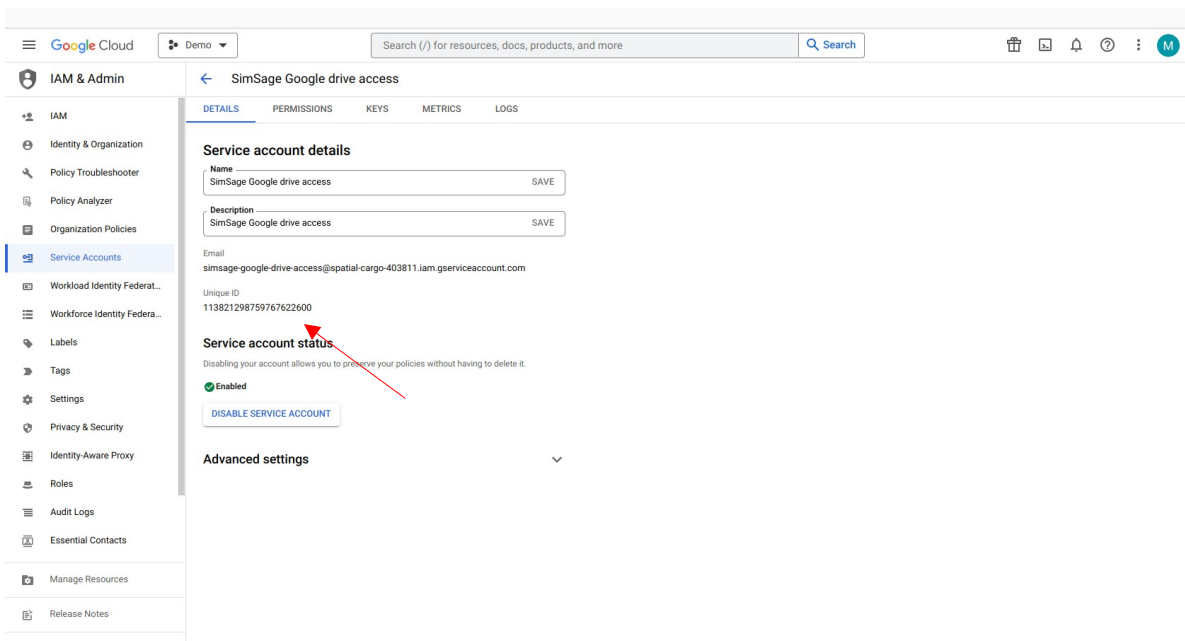
A service account represents a Google Cloud service identity, such as code running on Compute Engine VMs, App Engine apps, or systems running outside Google. [Learn more about service accounts.](#)

Organization policies can be used to secure service accounts and block risky service account features, such as automatic IAM Grants, key creation/upload, or the creation of service accounts entirely. [Learn more about service account organization policies.](#)

Filter Enter property name or value

Email	Status	Name	Description	Key ID	Key creation date	OAuth 2 Client ID	Actions
simsage-google-drive-access@spatial-cargo-403811.iam.gserviceaccount.com	Enabled	SimSage Google drive access	SimSage Google drive access	No keys		113821298759767622600	

2. Make note of the unique ID for this account.



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IAM & Admin SimSage Google drive access

DETAILS PERMISSIONS KEYS METRICS LOGS

Service account details

Name SimSage Google drive access SAVE

Description SimSage Google drive access SAVE

Email simsage-google-drive-access@spatial-cargo-403811.iam.gserviceaccount.com

Unique ID 113821298759767622600

Service account status

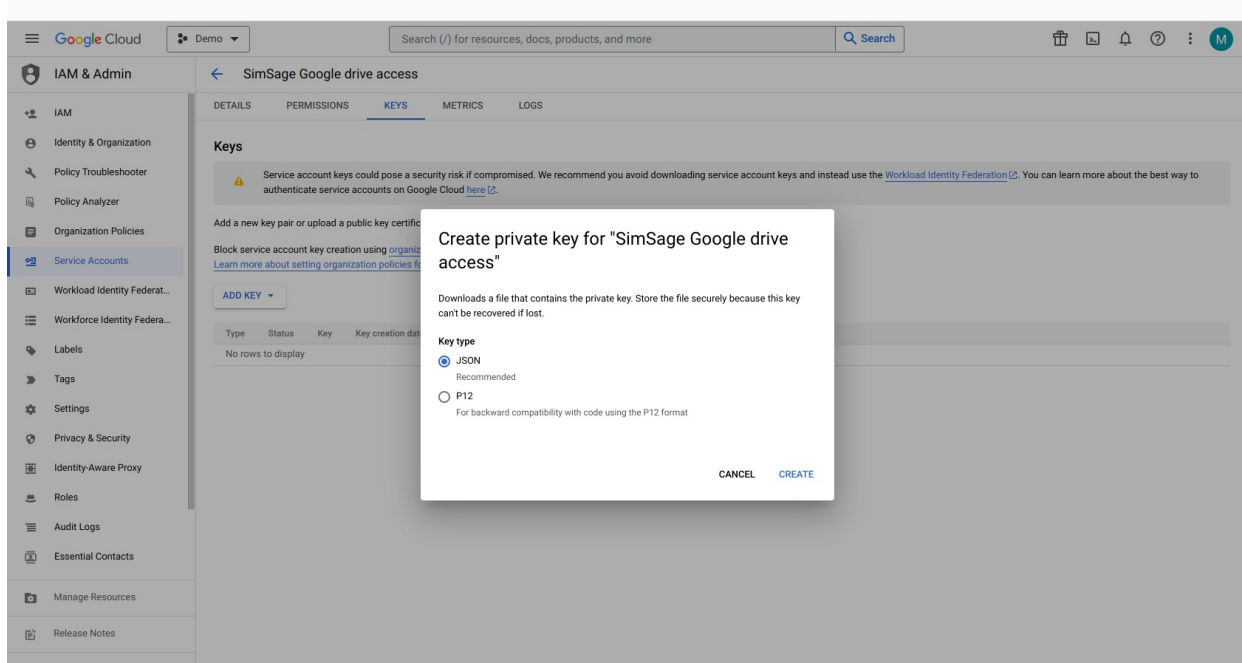
Disabling your account allows you to preserve your policies without having to delete it.

Enabled

DISABLE SERVICE ACCOUNT

Advanced settings

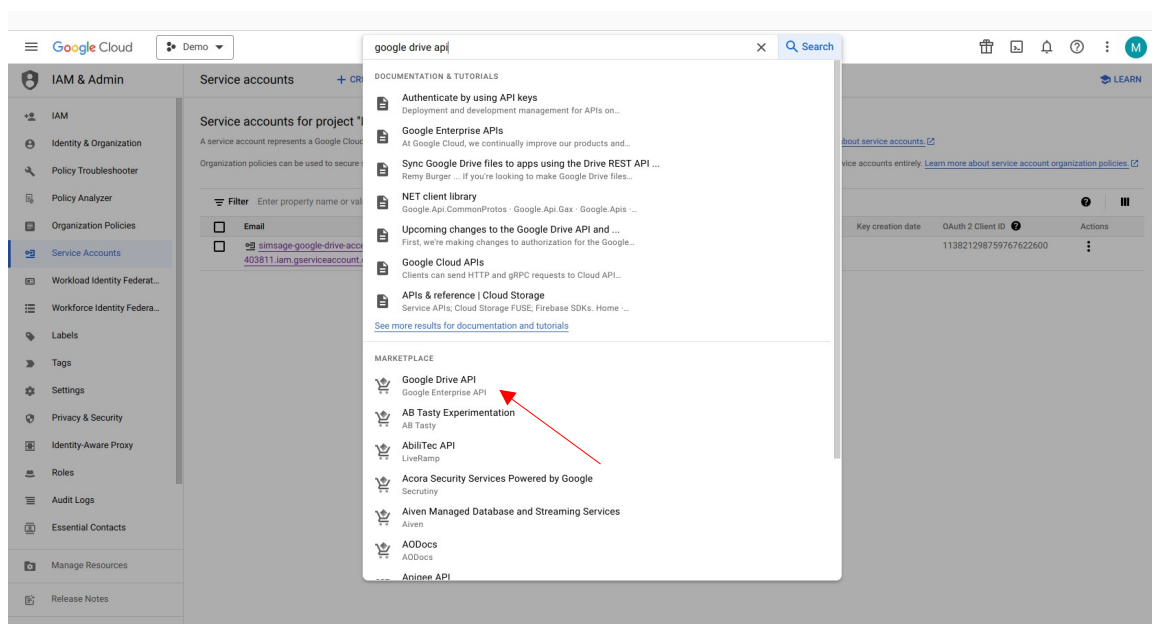
3. Navigate to the “KEYS” tab.
4. Click “ADD KEY” > “Create new key”.
5. Keep the default key type as JSON and click “CREATE”.



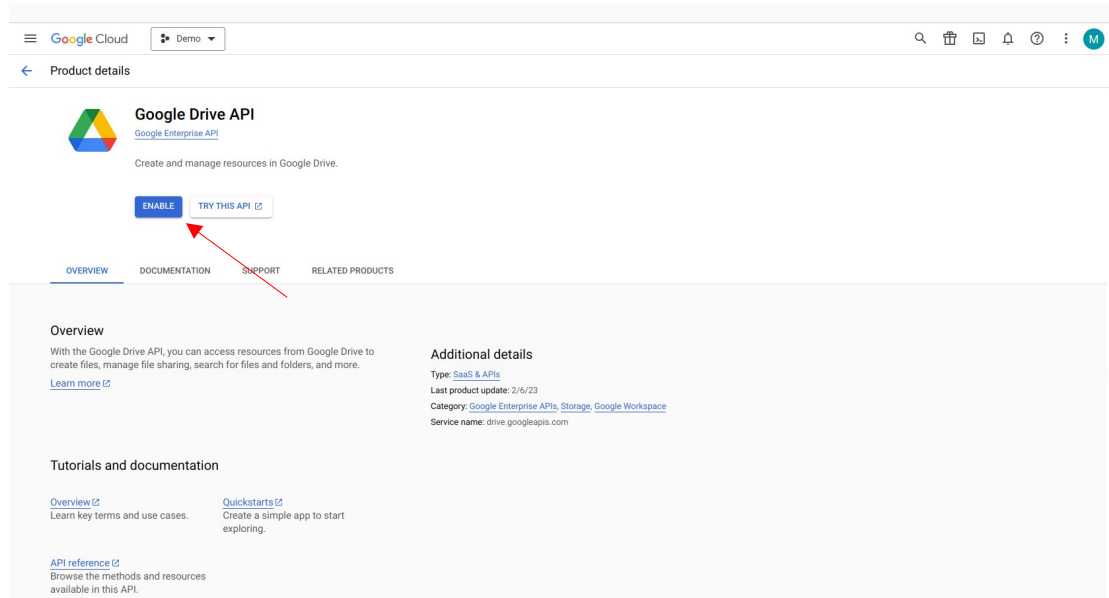
6. The key will be downloaded locally to your machine. SimSage will need the contents of this file to operate the crawler, so we advise you store it securely until you need it.

Enable Google Drive API

1. Type “Google Drive API” into the Search bar at the top of the screen.
2. In the drop down select “Google Drive API” from the marketplace options

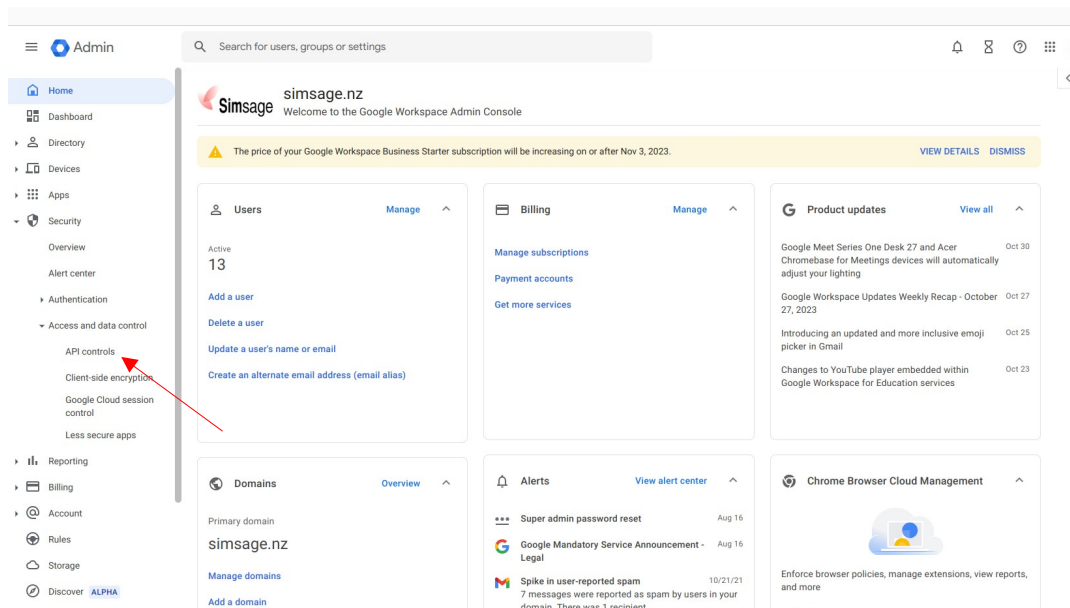


3. Click “Enable”

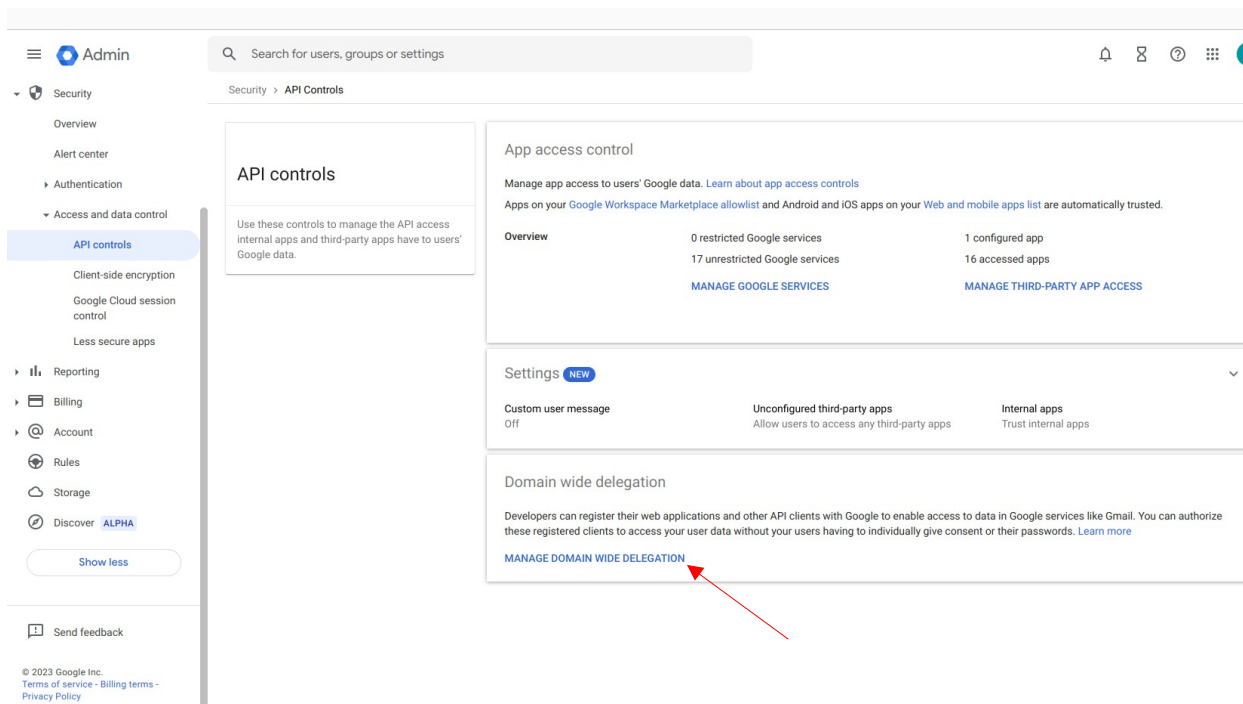


Authorise Domain-wide Delegation

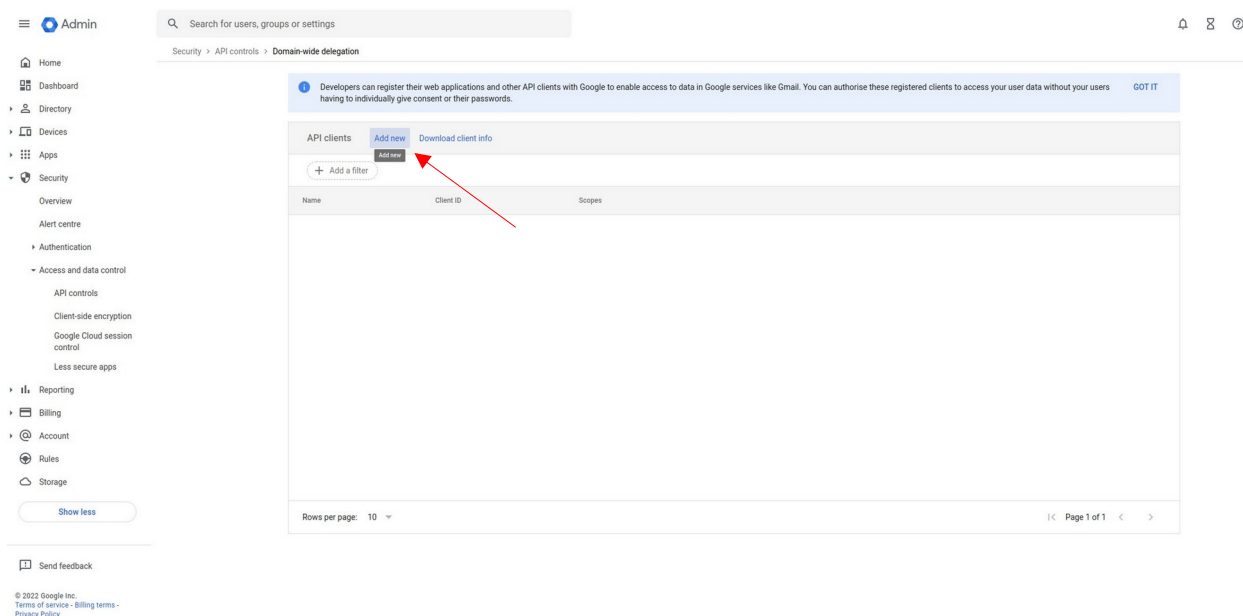
1. Open <https://admin.google.com>
2. Using the lefthand navigation bar, go to “Security” > “Access and data control” > “API controls”. **NB: You may need to click “show more” to reveal the “Security” option.**



- Click “MANAGE DOMAIN-WIDE DELEGATION” to switch to the API clients screen.



- Click “Add new” to add the service account as an accessor of specific items of your drive.

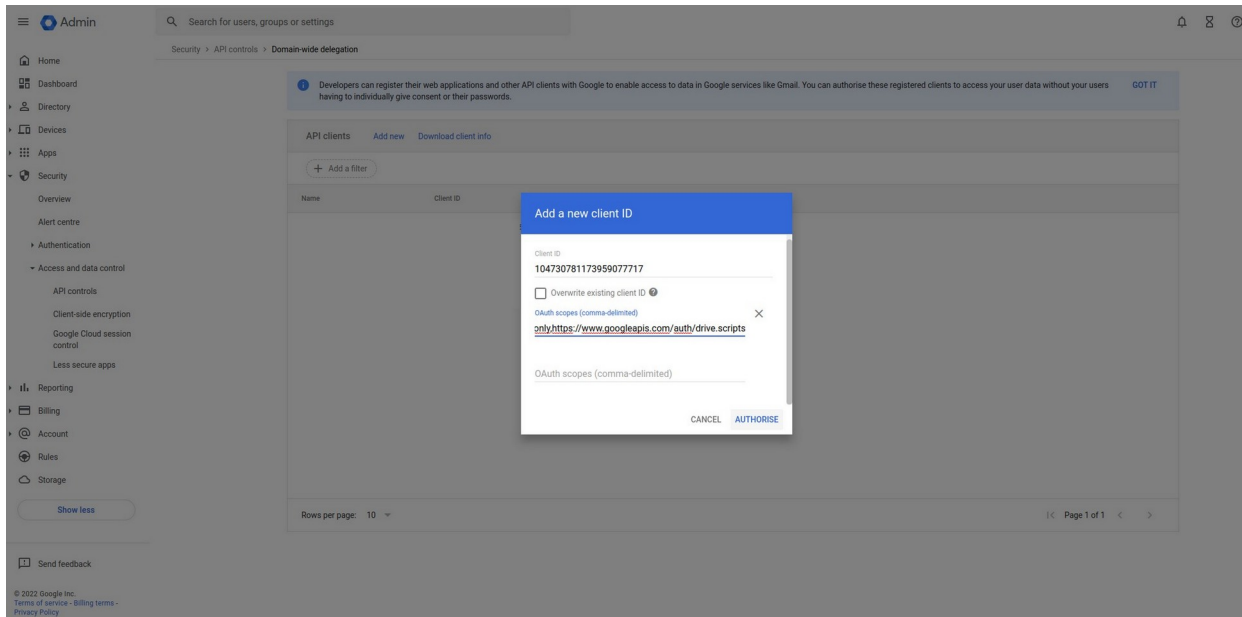


- Populate the “Client ID” field with your service accounts unique ID (Step 2 of the create JSON key section).
- Populate the “Oauth scopes” field with the following string.

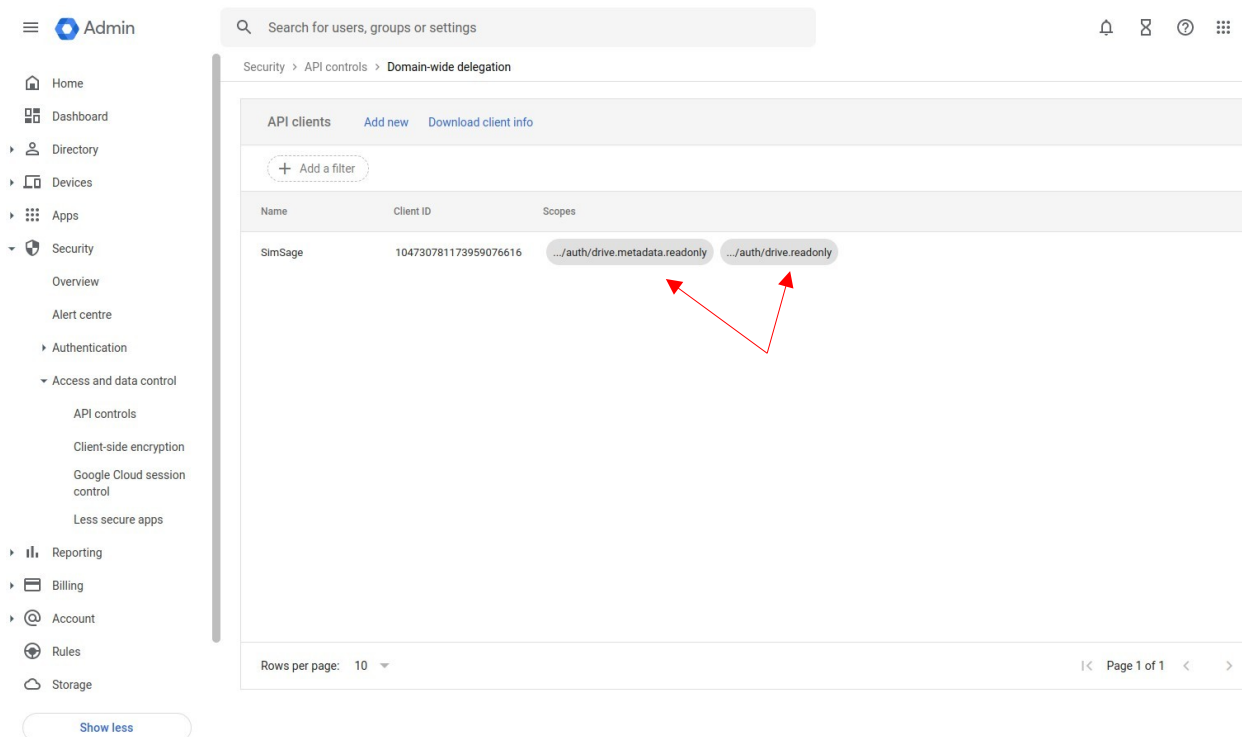
<https://www.googleapis.com/auth/drive.metadata.readonly>,
<https://www.googleapis.com/auth/drive.readonly>

NB: These scopes define READ-ONLY access to your data.

7. Click “AUTHORIZE”.



8. Google will now notify you that this client has been added with 2 scopes.



We can now setup a new SimSage crawler to access any drive accounts you want to index.