

Google Service Account Configuration

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Google Cloud Platform Configuration

Introduction

In order to install Synergy Sky JOIN with Google Calendar integration, the G Suite environment must be prepared. This is done through the following 4 steps

1. Create a Google Cloud Platform Project or use an existing project
2. Enable three distinct APIs and Services
3. Create a service account or use an existing service account. This account must be given correct permissions. A private key must be generated and copied to the JOIN server.
4. Appropriate Calendar Access must be given to the Service Account via the G Suite Domain

Google Cloud Platform

A Google Cloud Console Project is required in order for JOIN to be able to read calendar resource accounts, user accounts and also have access to APIs that enable the JOIN integration.

Create a Google Cloud Platform Project or use an existing Project. The Project will be used for the API integration as well as for the Service Account.

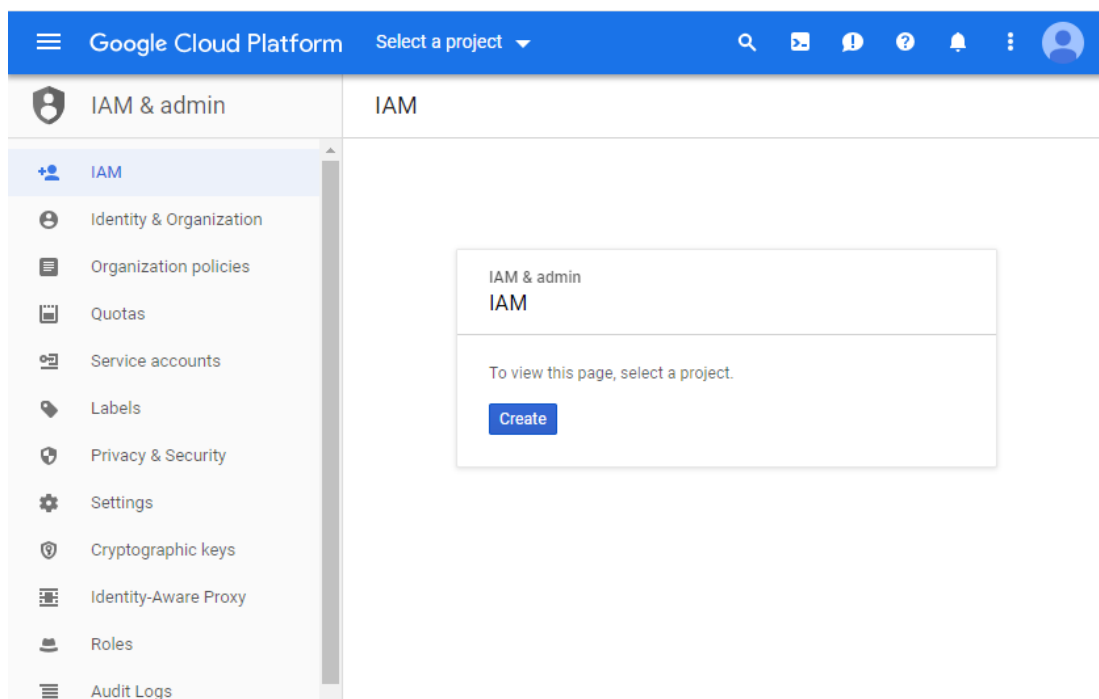
Logging into the Google Cloud Platform console:

- Browse to the following URL: <https://console.cloud.google.com/iam-admin/serviceaccounts>
- Log in with your admin user account to manage your Google cloud console.

Creating a Project

(Skip this section if you already have a project you want to add this account to)

N.B on some occasions, Google fails to create the project and as such, sometimes you may need to create the project twice



To create new Google Cloud Console project,

- Select IAM & Admin
- Click the 'Create' button.

Project Name *
Synergy JOIN

Project ID *
rich-operand-216810

Location *
No organization

CREATE **CANCEL**

- Fill in your project name, i.e. 'SynergyJOIN'.
- Select Create

Choosing an Existing Project

Follow these steps if you already have existing projects you would like to use for this project,

Permissions for project "Synergy JOIN"

View By: MEMBERS ROLES

Type	Member
<input type="checkbox"/>	eugenemakuyana@gmail.com
<input type="checkbox"/>	synergyjoinservice@rich-operand-216810.iam.gcp.edu

Select a project

Search projects and folders

RECENT ALL

Name	ID
<input checked="" type="checkbox"/> Synergy JOIN	rich-operand-216810

CANCEL **OPEN**

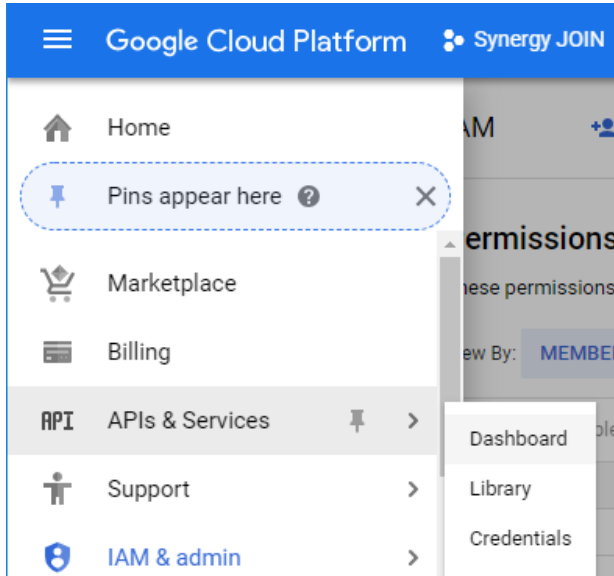
- Click on the Project Drop down arrow at the top left corner and you will be presented with the 'Select a Project Window'.
- Select your desired project and click 'Open'

Enabling API's and Services

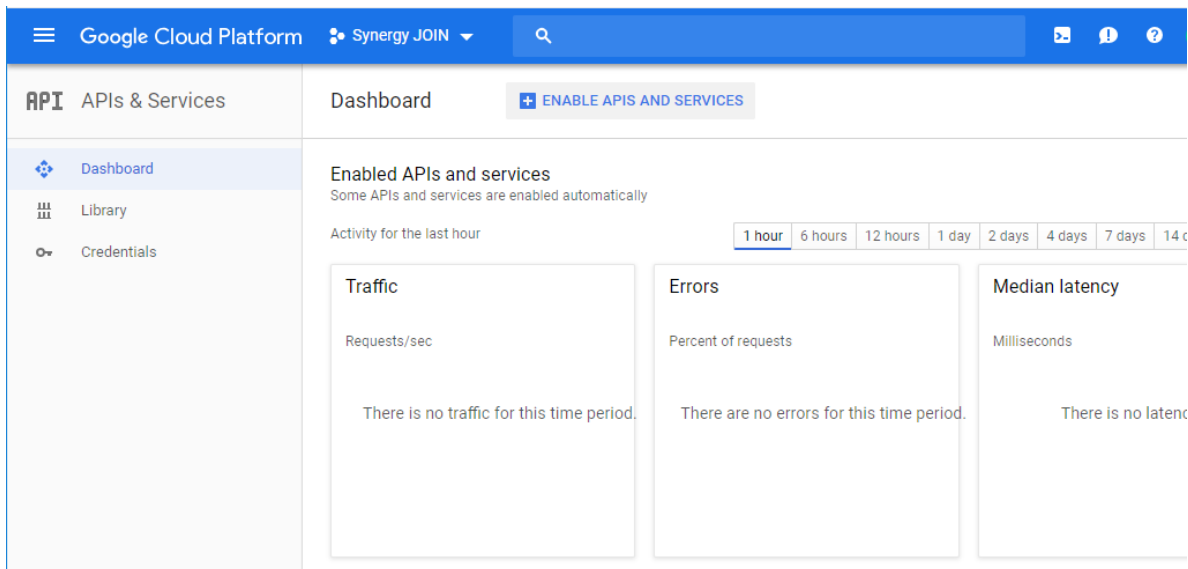
You will have to enable API's to work with the project you have created. The API's you will have to enable are Google Calendar API, GMail API & Admin SDK.

- Google Calendar API - To allow reading and updating resource calendars
- GMail API - To allow sending email
- Admin SDK - To allow listing out current available resources from the configuration tool

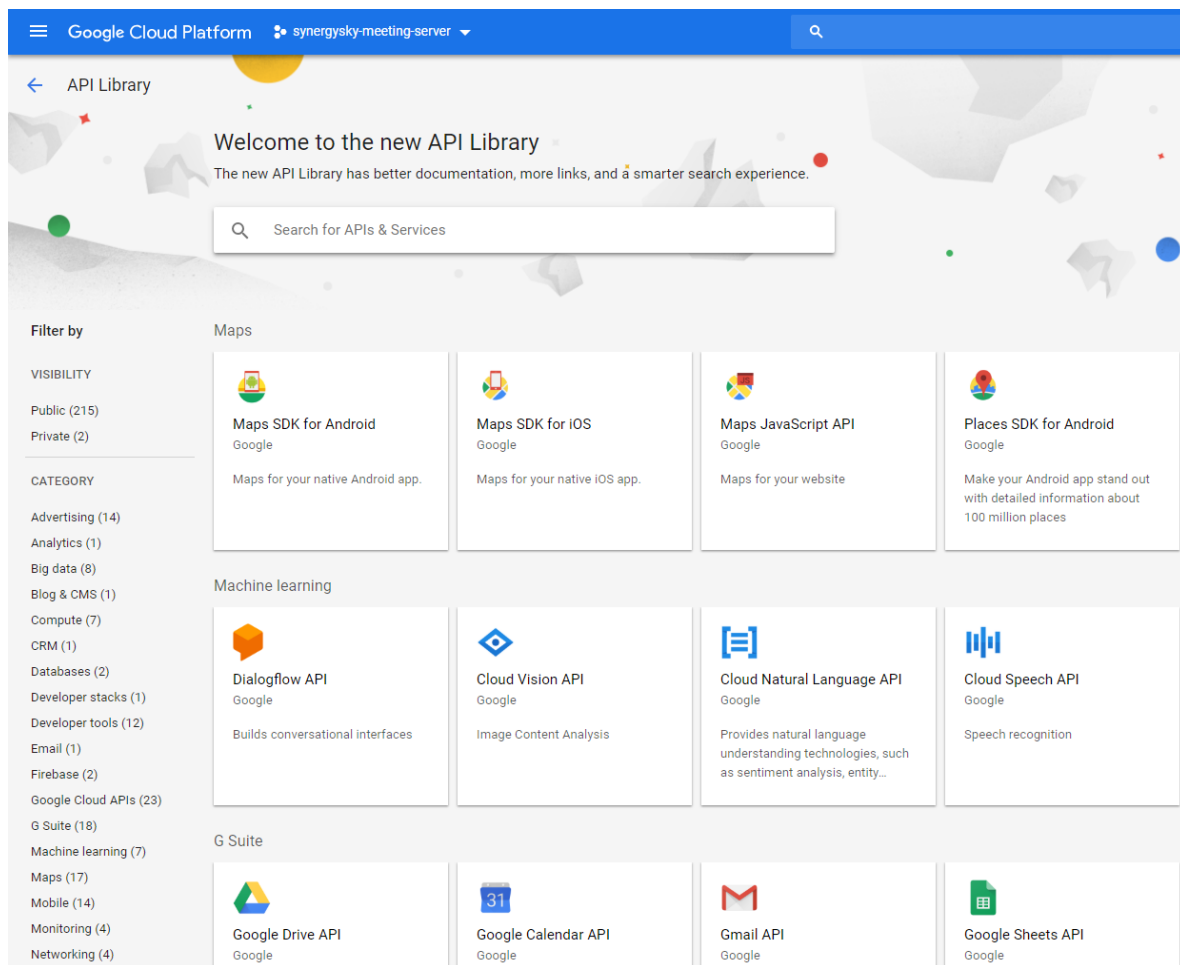
You need to enable one API at a time



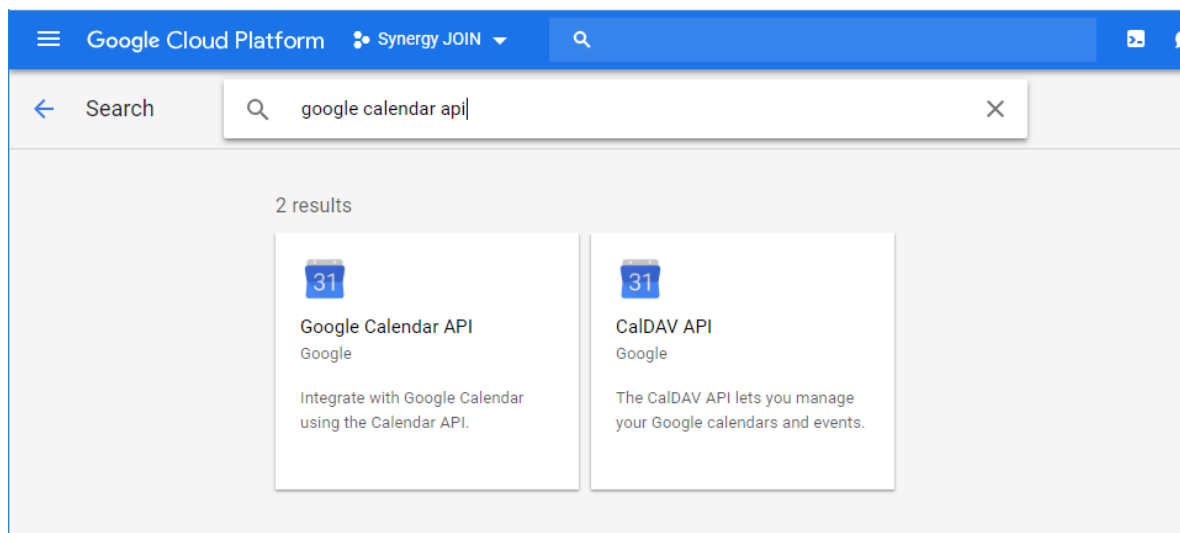
Go to the Menu, Select APIs & Services > Dashboard



Select 'Enable APIs and Services'



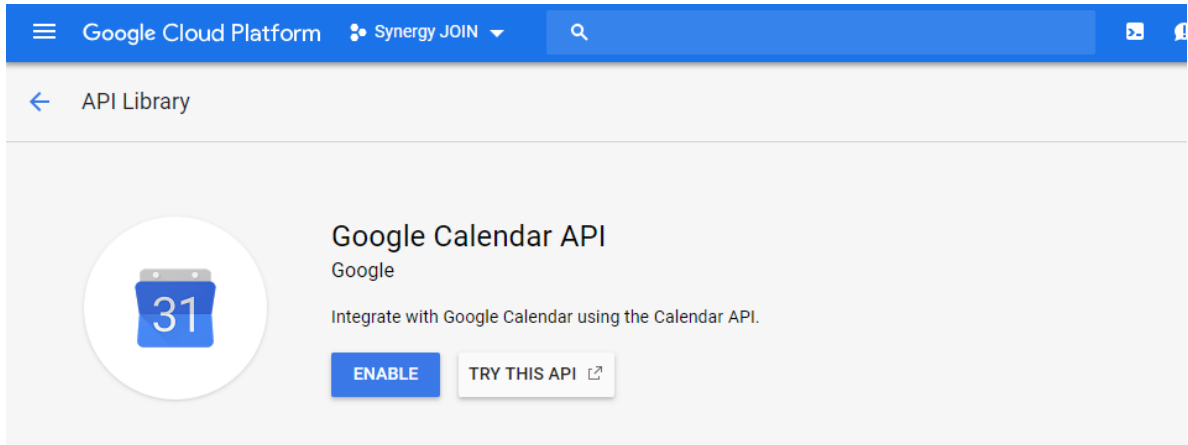
You should now be presented with the API Library.



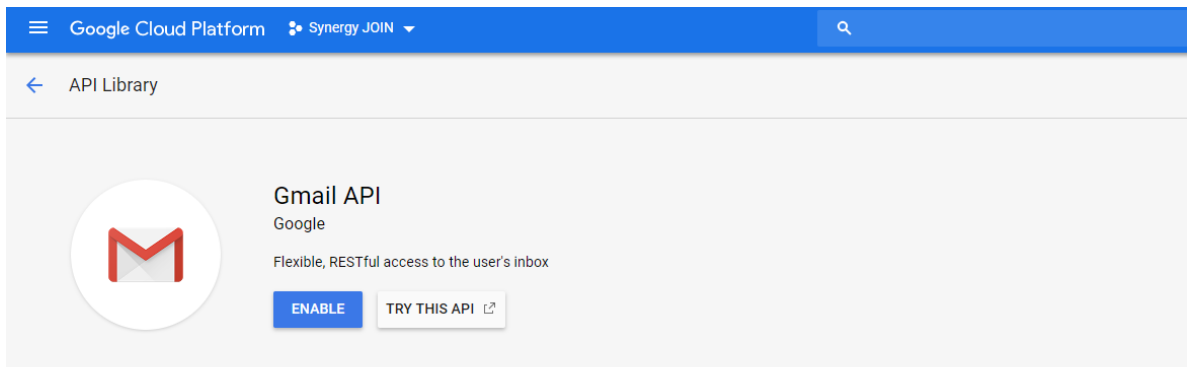
You will have to search for the APIs from this screen.

First, Search for 'Google Calendar API'

Select the 'Google Calendar API.'

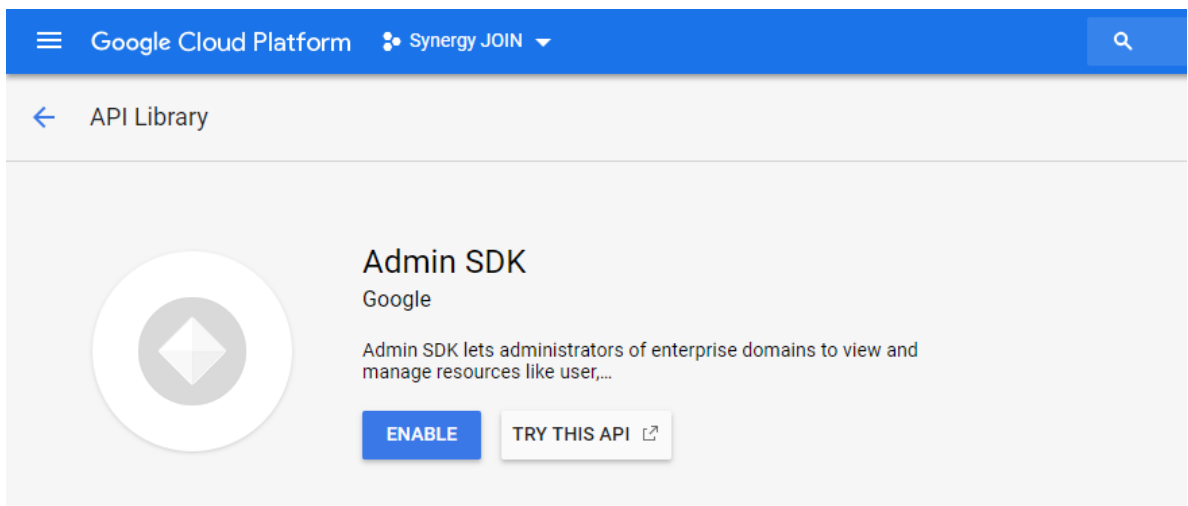


Click Enable



Once you have found this API, you will then have to perform a new search for Gmail API

Select Enable for the Gmail API

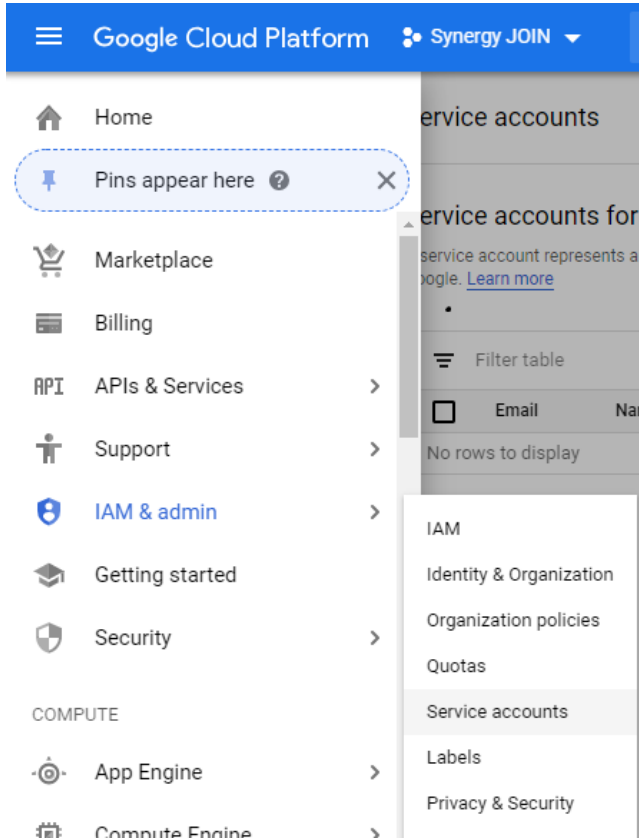


Once you have found this API, you will then have to perform a new search for Admin SDK API

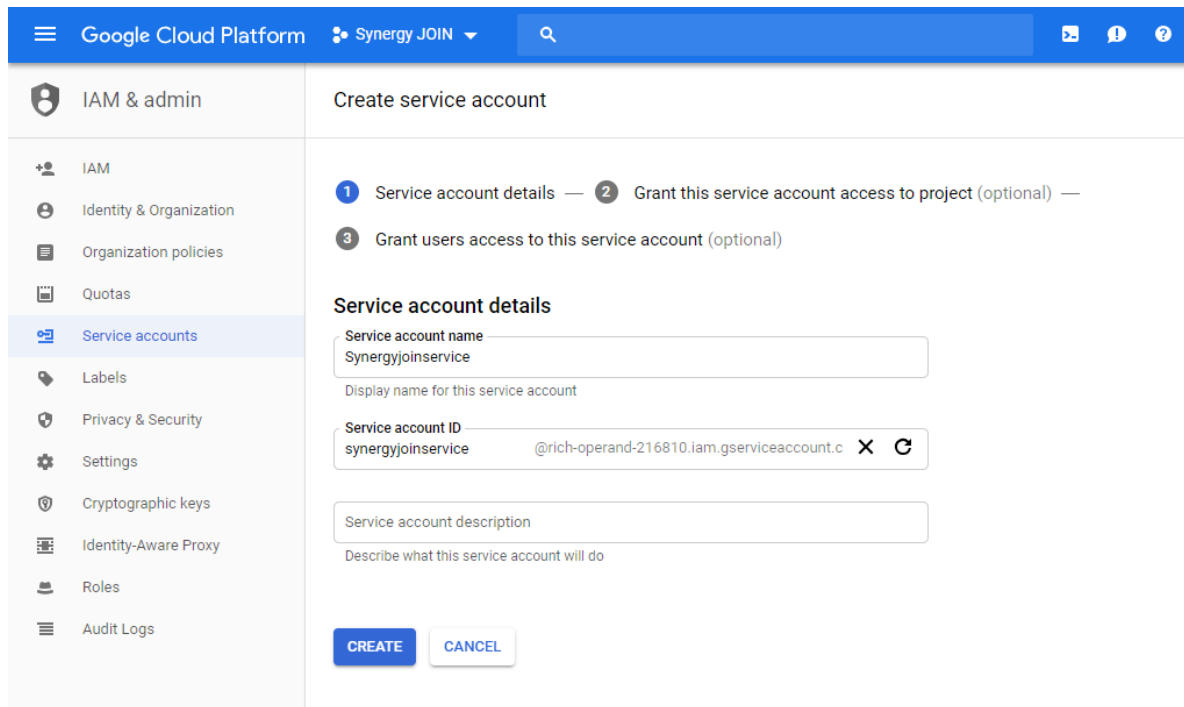
Select Enable for the Admin SDK API

Service Account

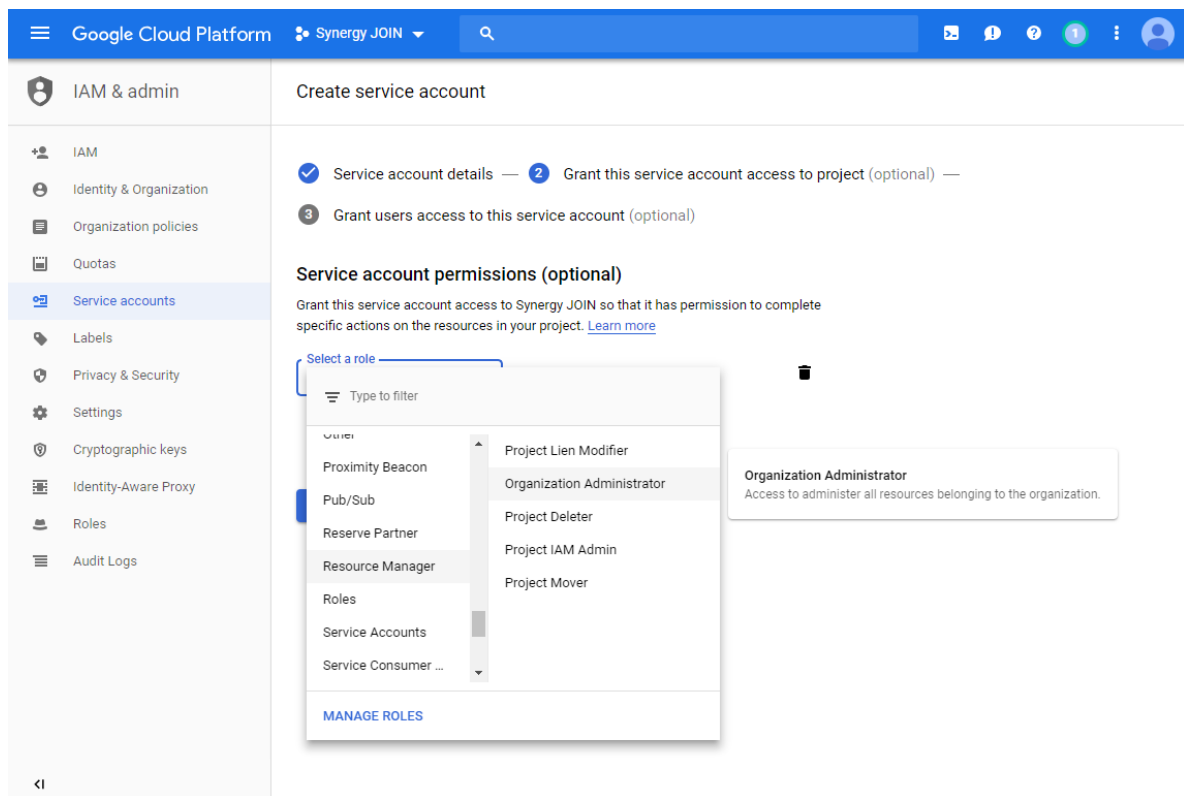
Create Service Account



Select IAM & Admin and Choose 'Service Accounts



Enter a Service Account Name and select Create

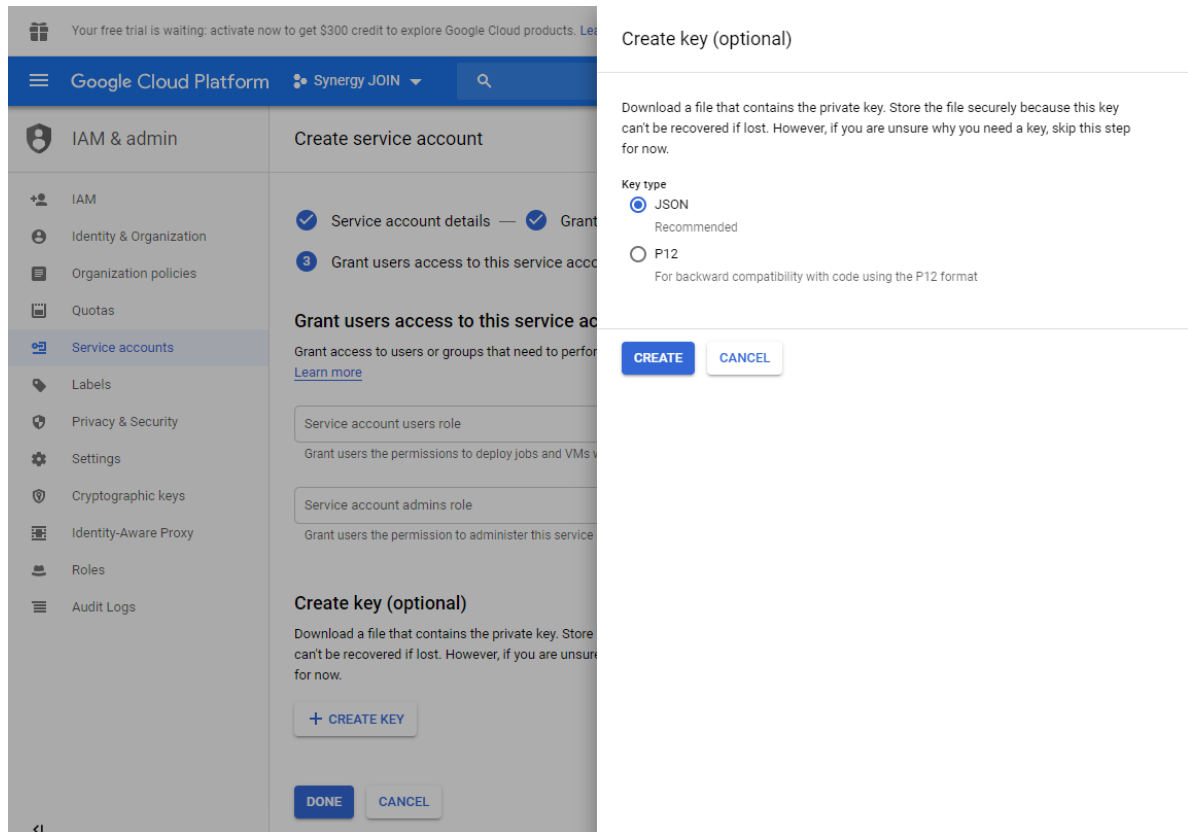


Select the role for this service account. Resource Manager > Organization Administrator.

This will allow the service account to manage the meeting room resources.

Once you have selected the role, Click the 'Create Key' Button.

Create a Private Key for JOIN



The screenshot displays the Google Cloud Platform console interface. On the left, the 'IAM & admin' sidebar is visible. The main content area shows the 'Create service account' wizard with steps for 'Service account details' and 'Grant users access to this service account'. A modal dialog titled 'Create key (optional)' is open, showing a warning about the private key's irreversibility. Under 'Key type', the 'JSON' option is selected and marked as 'Recommended', while the 'P12' option is unselected and noted as being for backward compatibility. 'CREATE' and 'CANCEL' buttons are present at the bottom of the modal.

On the next screen, choose the JSON radio button and click 'Create'

A file will be downloaded to your disk, this is your authentication information to be used by the JOIN application.

- Copy this file to the same directory as the JOIN application. (i.e. c:\SynergySKY\SynergySKYEnterpriseScheduling).
- Keep a secure copy of this file, since a new service account is required to be created if its lost.

Enabling Domain Wide Delegation

Once you have moved the file to the same directory as the JOIN application and you click 'Done' you will be presented with a screen similar to the below with your newly created service account visible in the list.

The screenshot shows the Google Cloud Platform IAM & admin console. The left sidebar lists various IAM and admin tools, with 'Service accounts' selected. The main content area displays 'Service accounts for project "Synergy JOIN"'. A table lists the service accounts, with one account selected:

<input type="checkbox"/>	Email	Name ↑	Description	Key ID
<input checked="" type="checkbox"/>	synergyjoinservice@rich-operand-216810.iam.gserviceaccount.com	Synergyjoinservice		29606dbbf4386cc7f16ffcedab720f79d9f35c8b

Click on the newly created service account.

The screenshot shows the 'Service account details' page for 'Synergyjoinservice'. The page includes fields for Name, Description, Email, and Unique ID. Below these fields is a section for 'Keys' with one key listed:

Key ID	Actions
29606dbbf4386cc7f16ffcedab720f79d9f35c8b	

There is also a '+ CREATE KEY' button at the bottom of the keys section.

Select 'Edit' and Expand the 'Show Domain-Wide Delegation' arrow

The screenshot shows the Google Cloud Platform IAM & admin console. The left sidebar contains a navigation menu with options: IAM, Identity & Organization, Organization policies, Quotas, Service accounts (highlighted), Labels, Privacy & Security, Settings, Cryptographic keys, Identity-Aware Proxy, Roles, and Audit Logs. The main content area is titled 'Synergyjoinservice' and includes 'EDIT' and 'DELETE' buttons. The configuration fields are as follows:

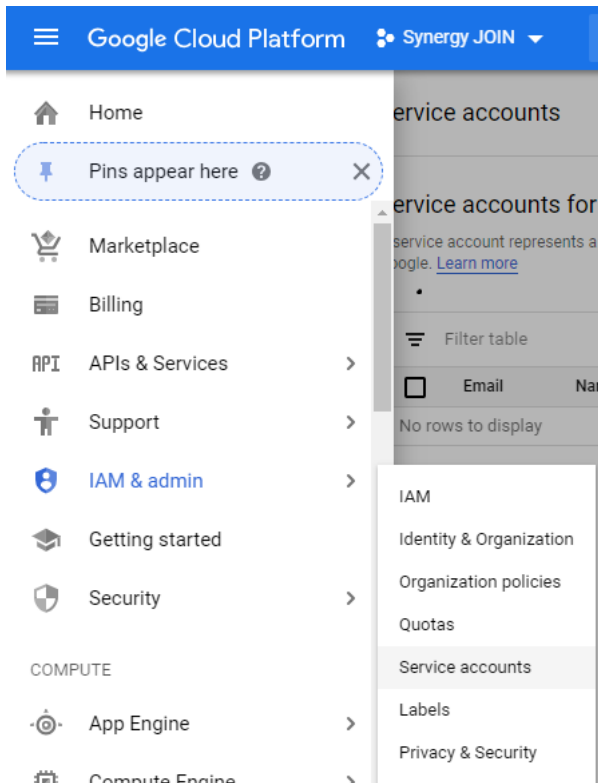
- Email:** synergyjoinservice@rich-operand-216810.iam.gserviceaccount.com
- Unique ID:** 100571836611201877672
- Enable G Suite Domain-wide Delegation:** This checkbox is checked. Below it, a message states: "Allows this service account to be authorized to access all users' data on a G Suite domain without manual authorization on their parts. [Learn more](#)". A warning box below this message explains that to change domain wide delegation, a product name for the OAuth consent screen must be configured. It provides instructions on how to enter the product name and email address. A blue button labeled 'CONFIGURE CONSENT SCREEN' is located at the bottom of the warning box.
- Product name for the consent screen:** Synergy Join
- Email address:** eugenemakuyana@gmail.com
- Keys:** A section with a 'Key ID' of 29606dbbf4386cc7f16ffcedab720f79d9f35c8b and a trash icon to its right. Below the key ID is a '+ CREATE KEY' button.

At the bottom of the configuration area, there are 'SAVE' and 'CANCEL' buttons.

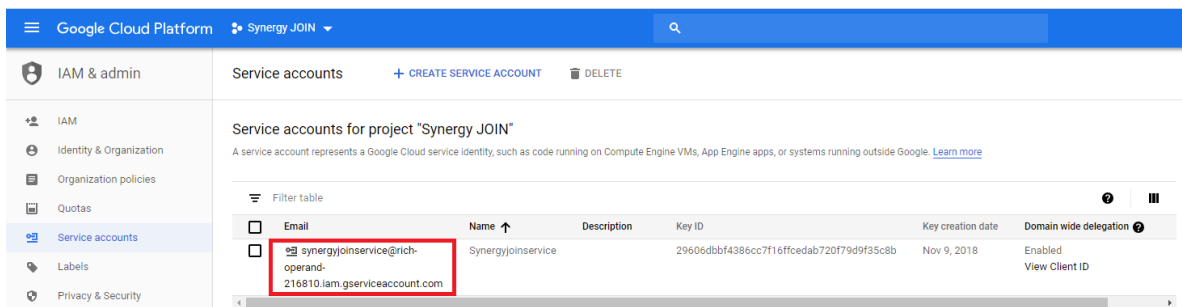
Tick the 'Enable G Suite Domain-wide Delegation' tick box
 Select 'Save'

Enable Service accounts to access Calendar Resources

In order to enable Service accounts, first we need to find the Service account ID for the service account on <https://console.cloud.google.com>



Select IAM & Admin and Choose 'Service Accounts

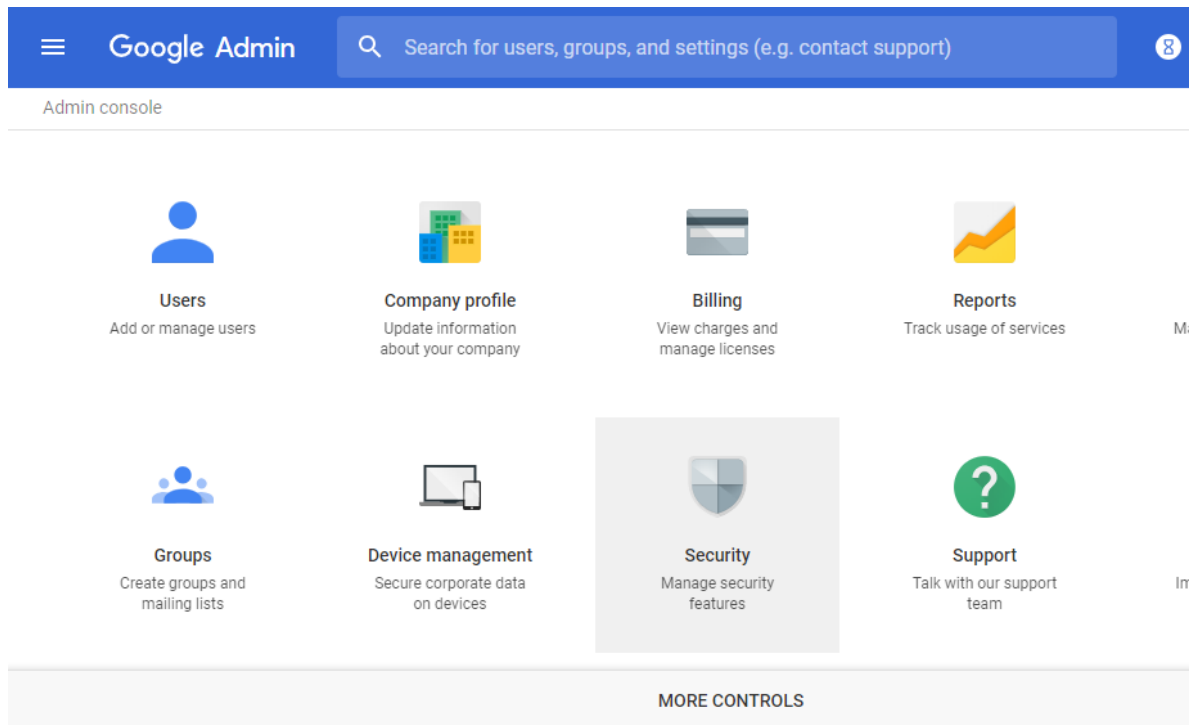


Copy the service account ID

An Administrator of the G Suite domain must complete the next steps

Google Admin Console

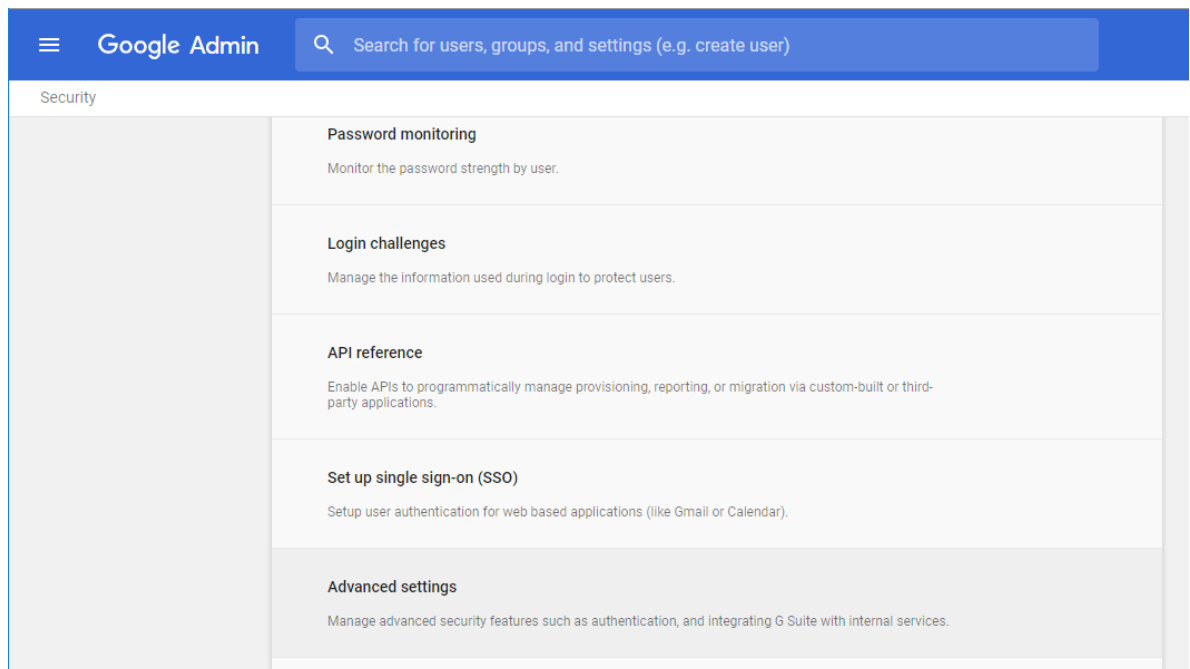
Browse to the Google Admin Console <https://admin.google.com>



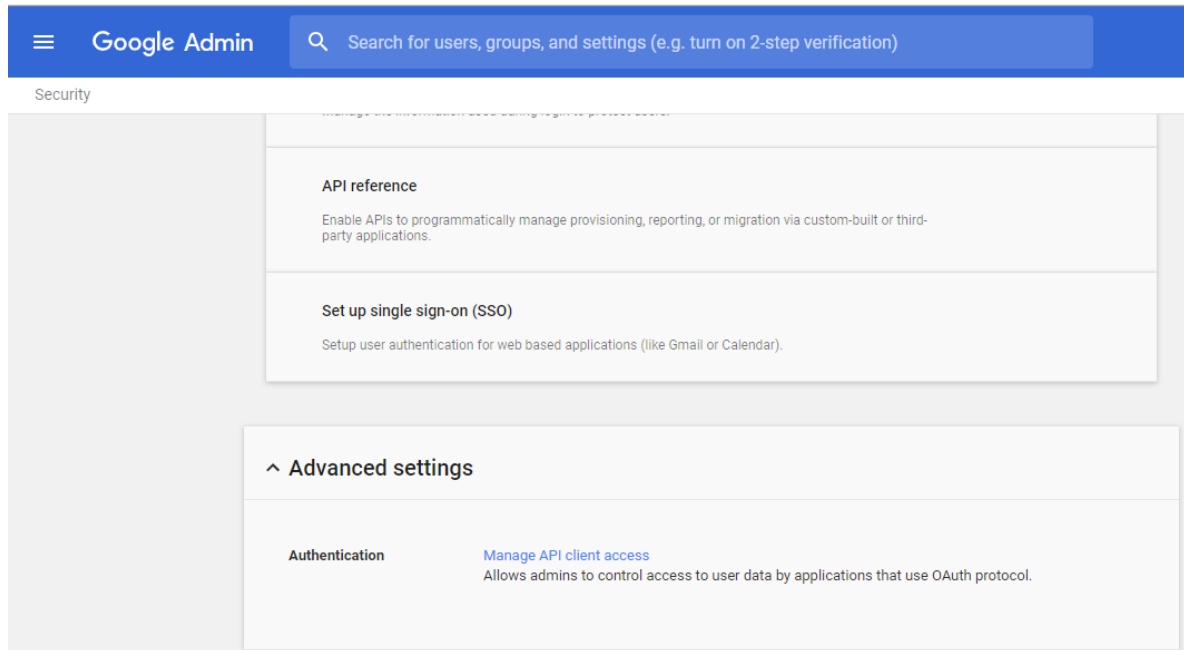
Select Security from the list of controls.

If you don't see Security listed, select **More controls** from the gray bar at the bottom of the page, then select Security from the list of controls.

N.B If you can't see the controls, make sure you're signed in as an administrator for the domain.



Select Advanced settings from the list of options

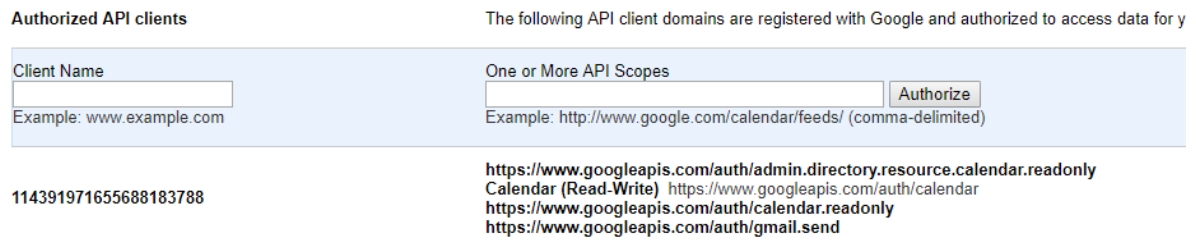


Select 'Manage API client access' in the Authentication section

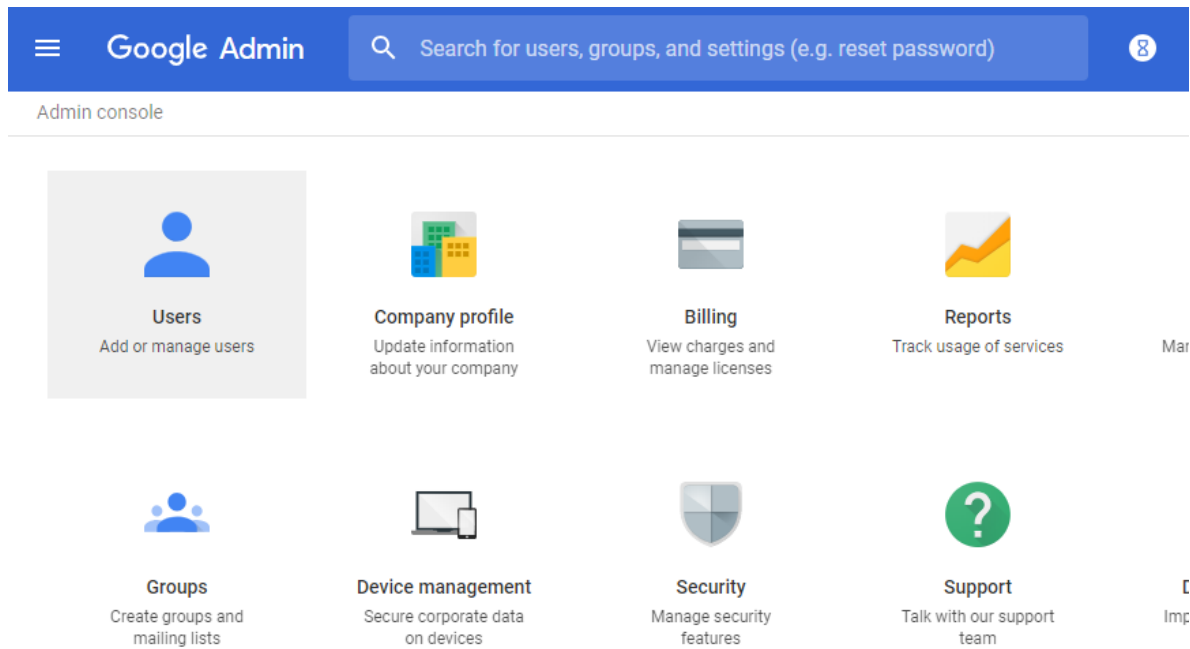
1. In the Client Name field enter the service account's Client ID or Service account ID (which we copied in the previous step).
2. In the One or More API Scopes field enter this list of scopes:
 - <https://www.googleapis.com/auth/admin.directory.resource.calendar.readonly>
 - <https://www.googleapis.com/auth/calendar.readonly>
 - <https://www.googleapis.com/auth/gmail.send>
 - <https://www.googleapis.com/auth/calendar>

Click Authorize.

The outcome should look like the below example:

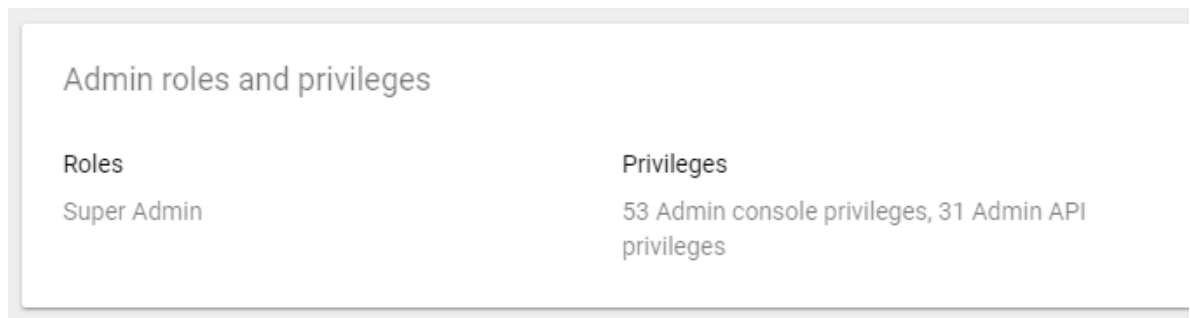


Service-act-on-behalf-of Email



Browse to the dashboard and select 'Users'

In the users section, select the user that you would like to use as the 'service-act-on-behalf-of Email' in Synergy JOIN.



Scroll down to the 'Admin roles and privileges' section and verify that the user you would like to use has the role of 'Super Admin' enabled.

Once you have verified this, copy the email address from this user and paste this into the 'service-act-on-behalf-of email' text button in the 'General Settings' tab in the Synergy JOIN configuration tool.

More information on the general settings tab can be found [here](#)