

Google Calendar API Integration

INTRODUCTION

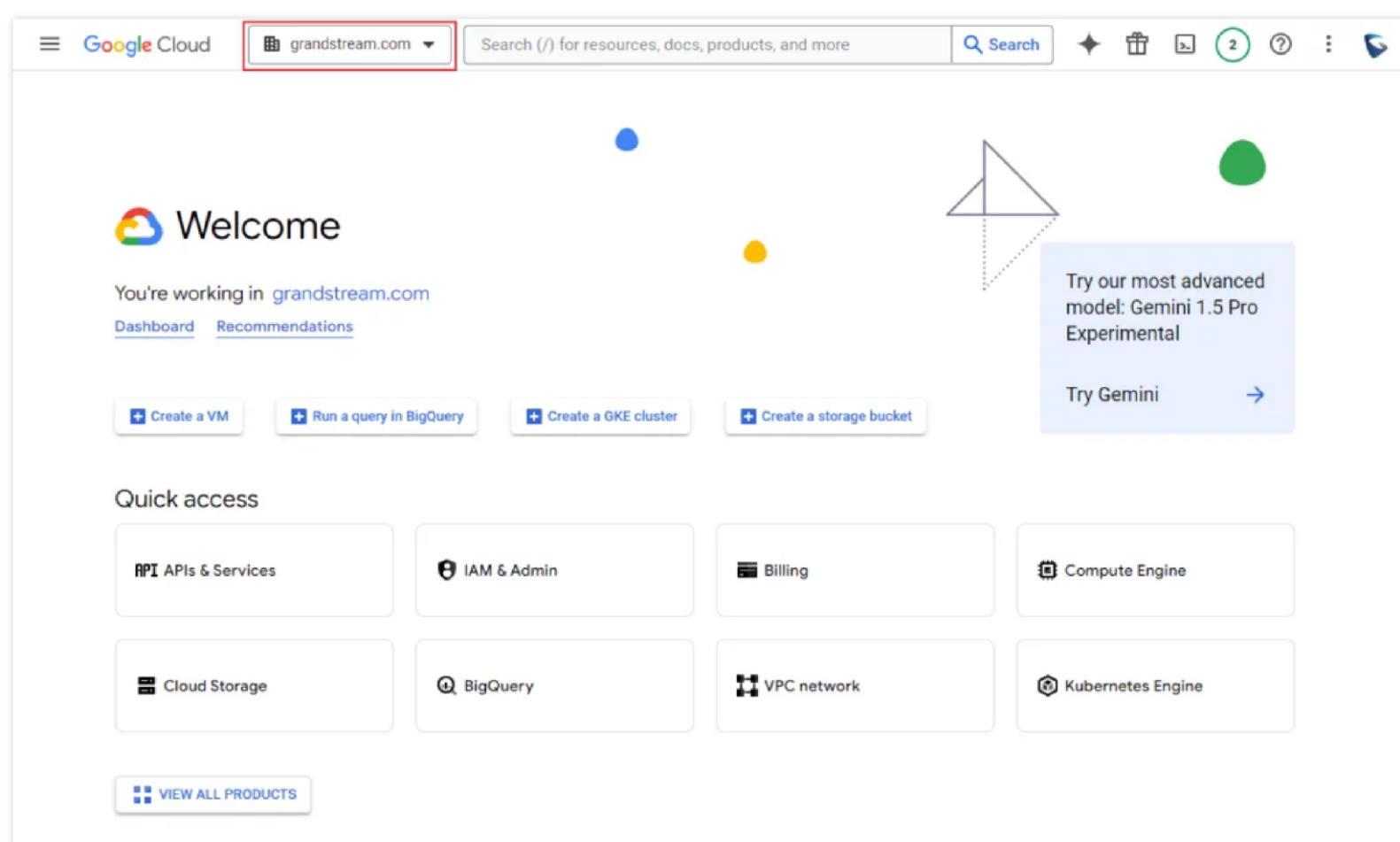
This guide shows the steps required to create an API integration between Google Calendar and supported Grandstream devices. To set up this integration successfully, the user needs to have a Google Account with Workspace enabled to access Google Workspace API, and a Grandstream device that supports Google Calendar API integration.

GOOGLE API CONFIGURATION

Create Google Cloud Project

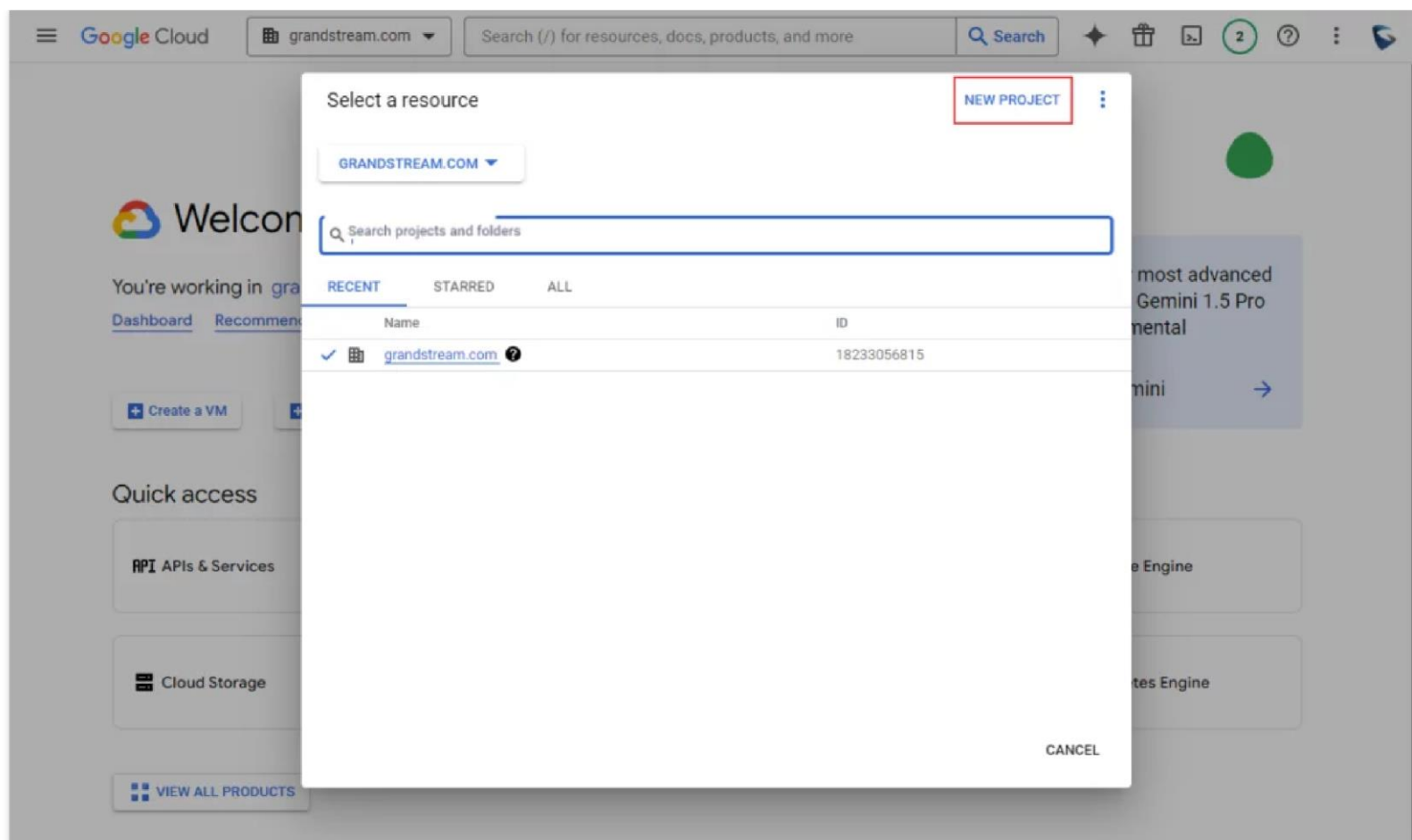
To use Google Workspace API, the user should access Google Cloud Console and create a project, to do that, please follow the steps below:

1. Please access Google Cloud Console using the following link: <https://console.cloud.google.com/>
2. Log in using your Google account if you have not done that already.
3. Once logged in, click on the name of your organization to open the list of projects, as shown in the screenshot below



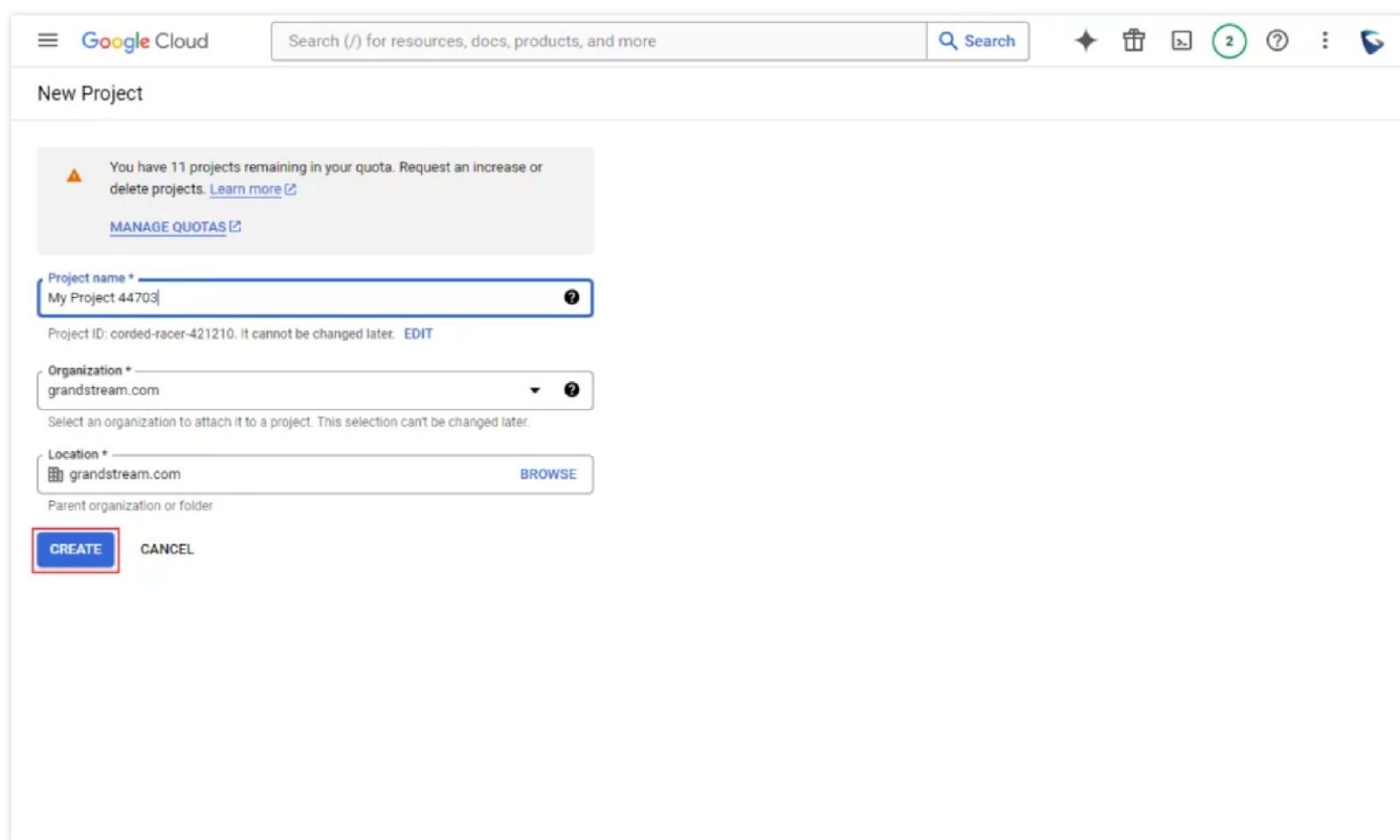
Google Cloud Console Home Page

4. Click on "New Project" to create a new project



Projects List

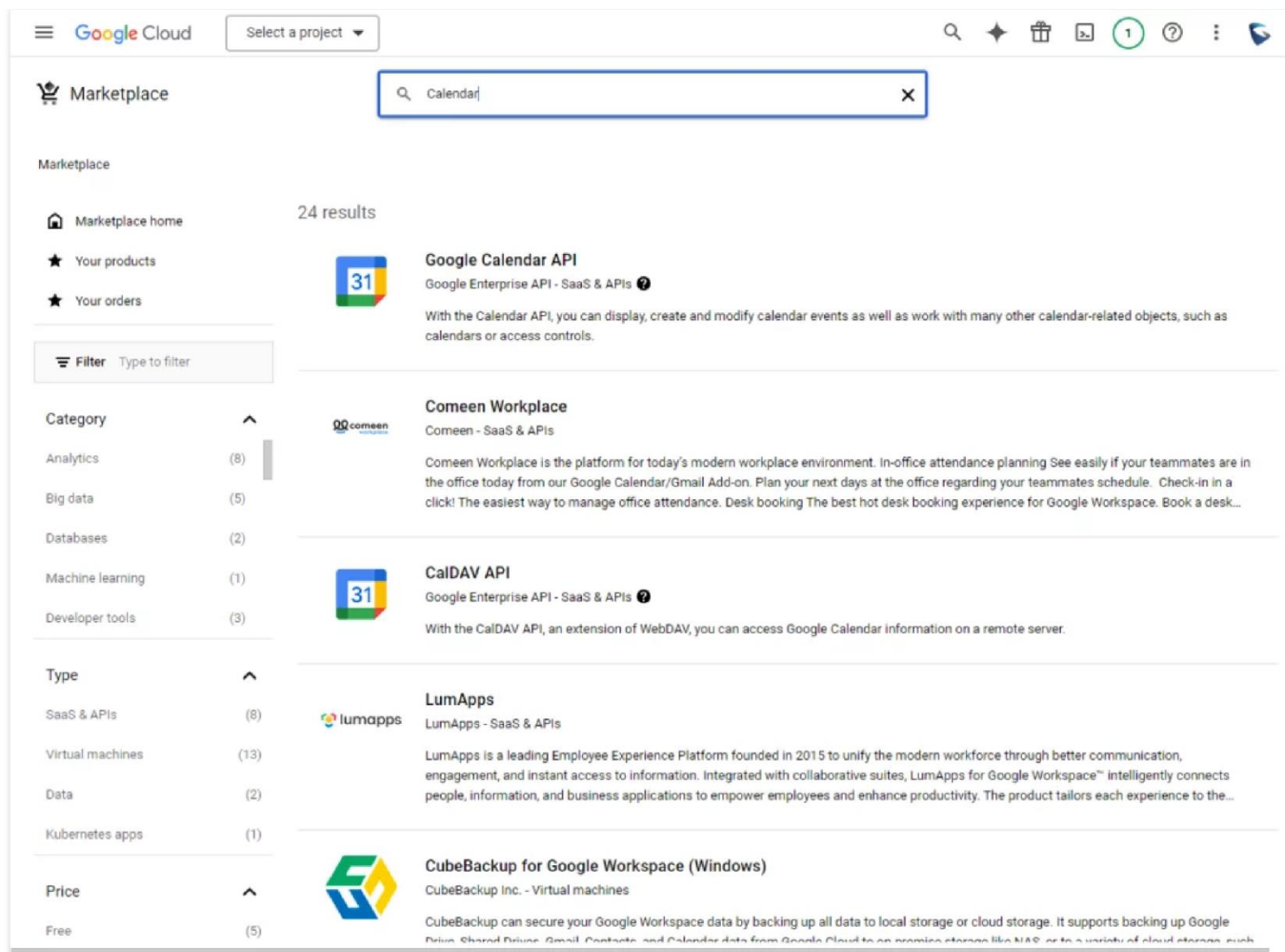
5. Enter the project name and click "Create"



Create New Project

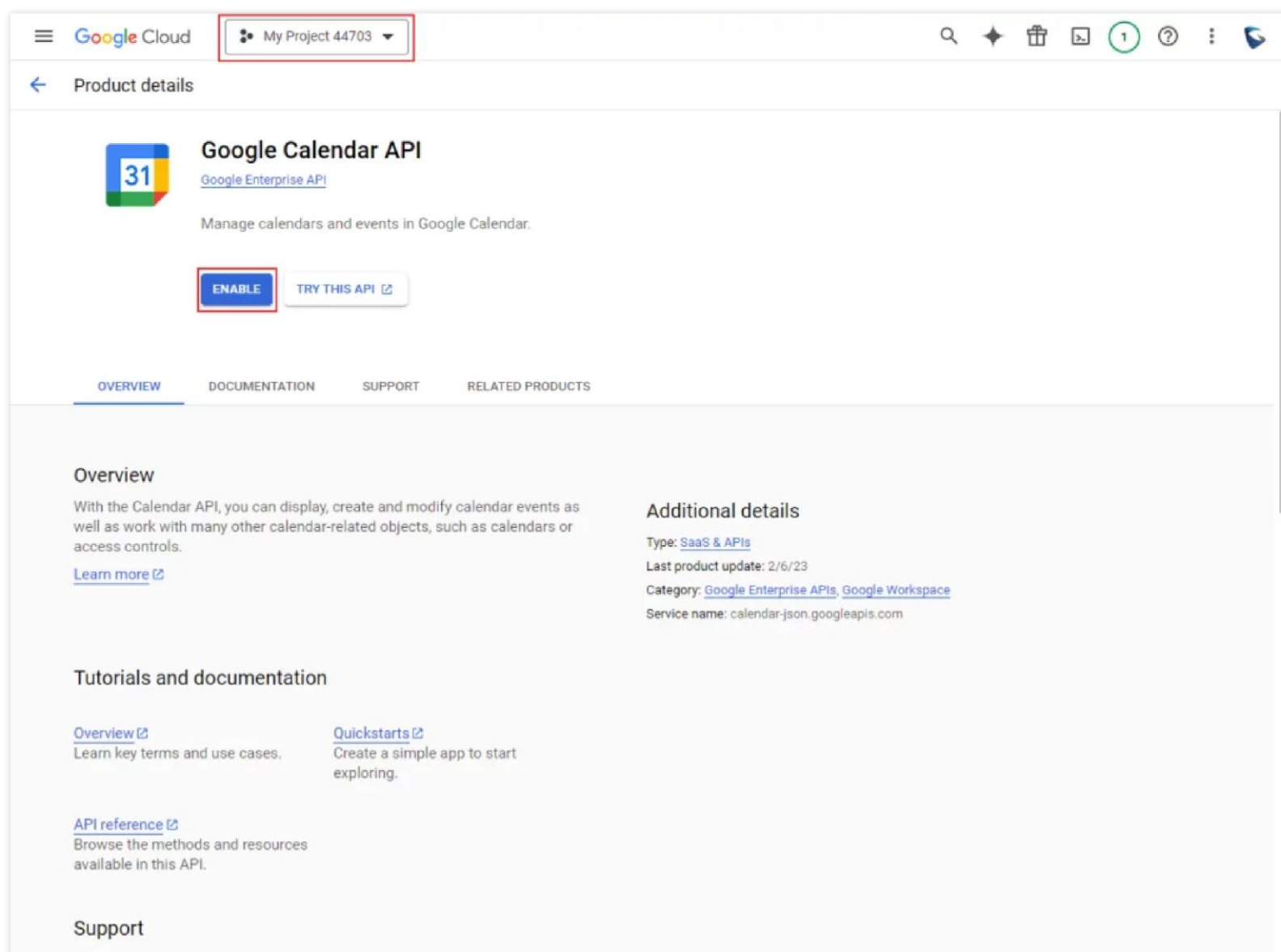
Enable Google Calendar API

1. Using the following link <https://console.cloud.google.com/marketplace> access the marketplace of Google Cloud and search for "Calendar"



Google Cloud Market Place

2. Click "Google Calendar API", then make sure that your project is select, as highlighted on the top of the screenshot, then click on "Enable" to enable Google Calendar API.



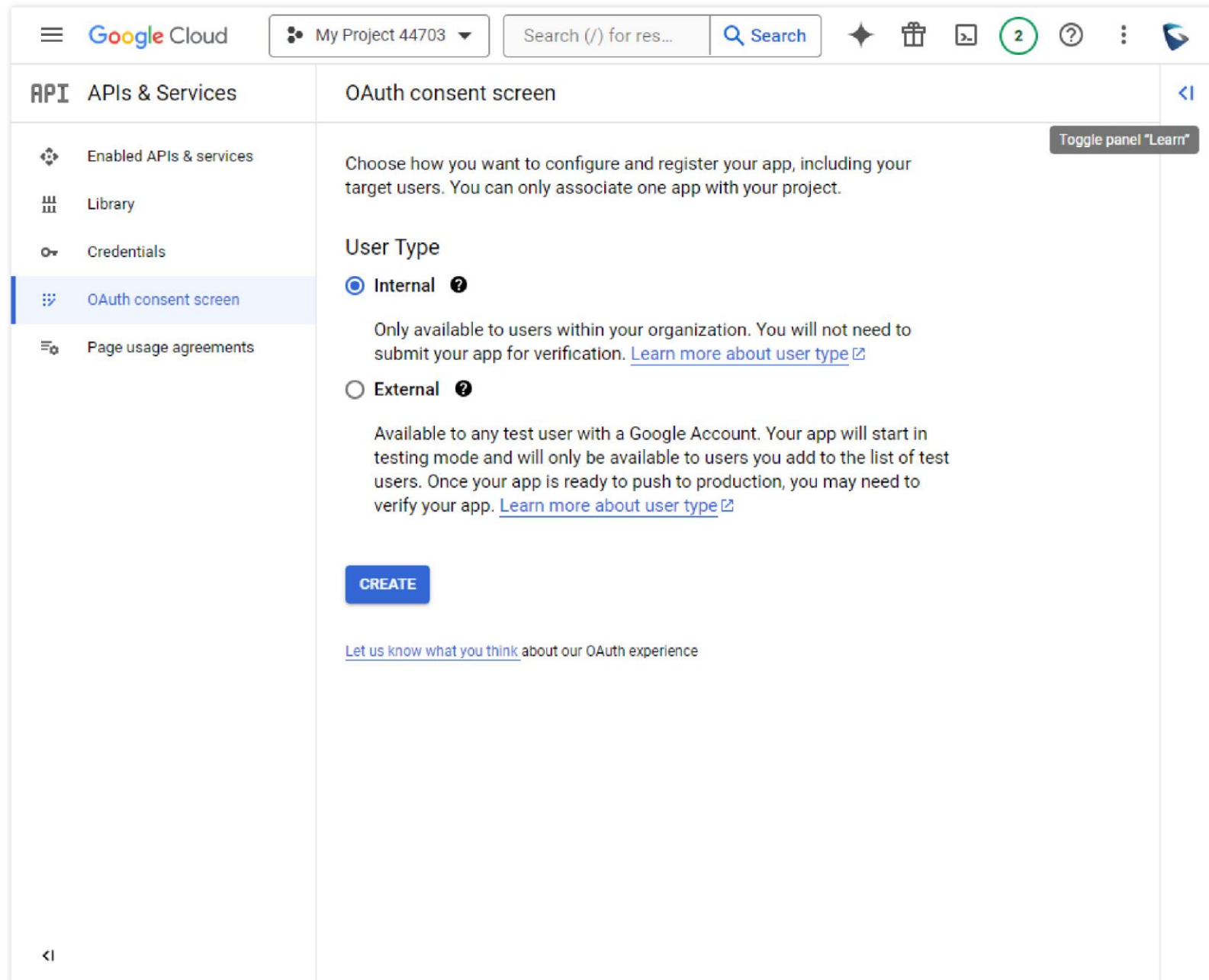
Enable Google Calendar API

OAuth Consent Configuration

In this section we will configure the types of users which can use the API integration

1. On the console of Google Cloud, on the side bar, click on "OAuth consent screen" as shown in the screenshot below, then select "Internal User" as the User Type. Please note that selecting this option means that only the users in the organization associated with the project will be able to

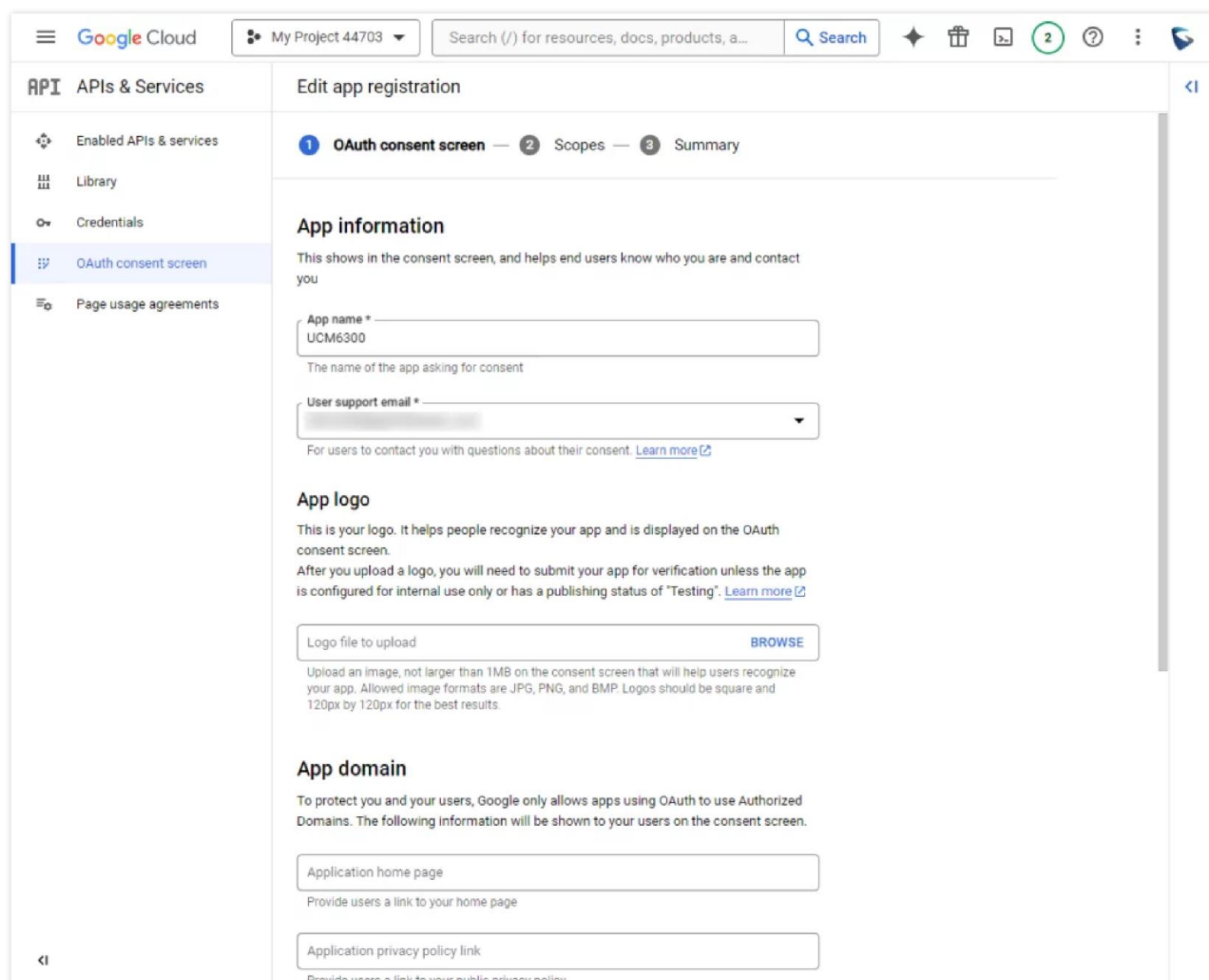
user the API integration.



OAuth Consent Screen

2. Click on "Create" after selecting the user type.

3. Once that is done, now fill in the required fields.



App Registration 1

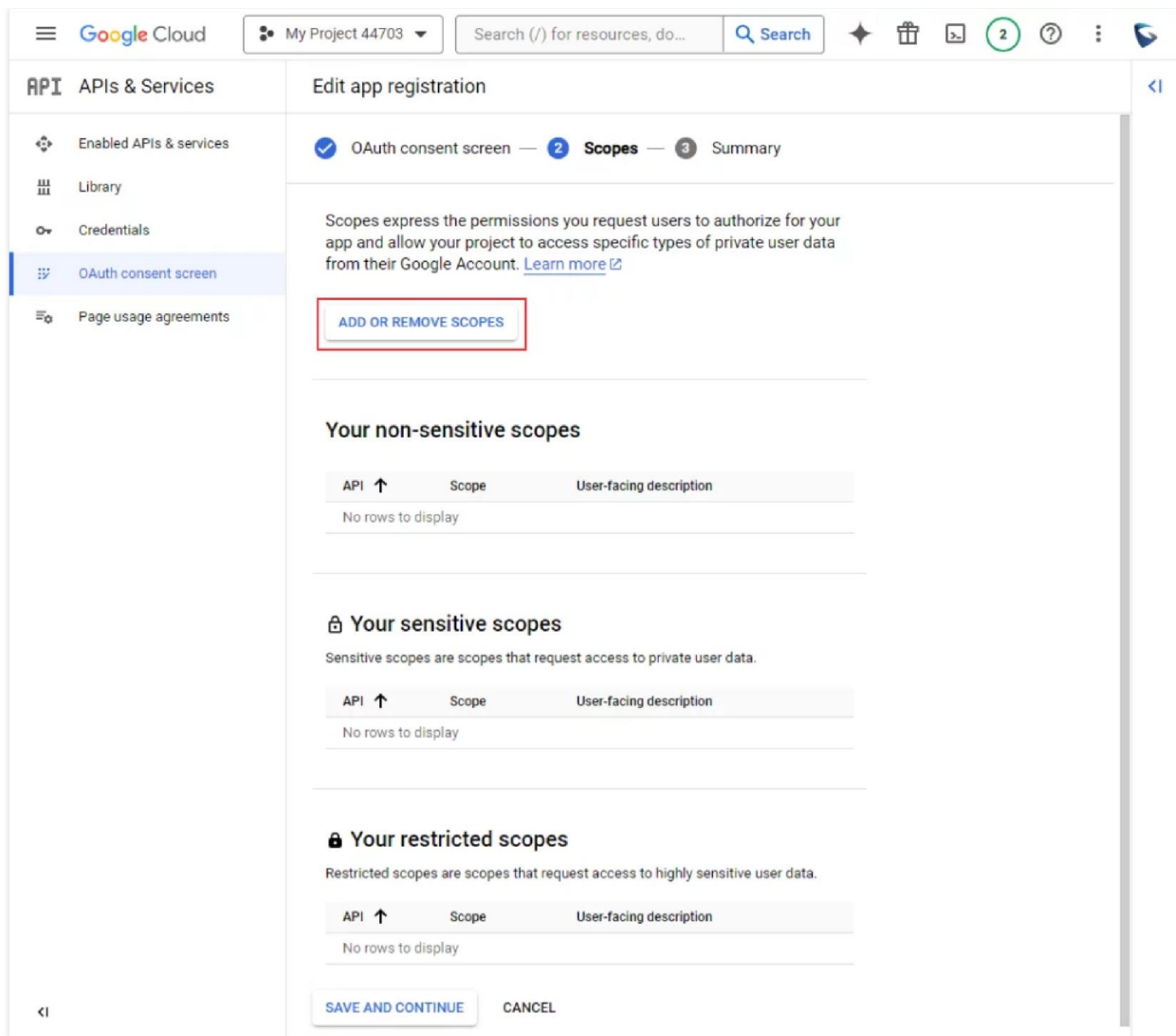
4. Enter the authorized domain(s). Further in this guide, we will have to use a Redirect URI for OAuth authentication. The user should include the URI domain in the "Authorized Domain". In the example below, we have set to authorize "grandstream.com" as the authorized domain.

The screenshot shows the 'Edit app registration' page in the Google Cloud console. The left sidebar is titled 'APIs & Services' and has 'OAuth consent screen' selected. The main content area is titled 'Edit app registration' and contains the following sections:

- Logo file to upload:** A text input field with a 'BROWSE' button. Below it, a note states: 'Upload an image, not larger than 1MB on the consent screen that will help users recognize your app. Allowed image formats are JPG, PNG, and BMP. Logos should be square and 120px by 120px for the best results.'
- App domain:** A heading followed by a note: 'To protect you and your users, Google only allows apps using OAuth to use Authorized Domains. The following information will be shown to your users on the consent screen.'
- Application links:** Three text input fields for 'Application home page', 'Application privacy policy link', and 'Application terms of service link', each with a descriptive note below it.
- Authorized domains:** A heading with a help icon, followed by a note: 'When a domain is used on the consent screen or in an OAuth client's configuration, it must be pre-registered here. If your app needs to go through verification, please go to the [Google Search Console](#) to check if your domains are authorized. [Learn more](#) about the authorized domain limit.'
- Authorized domain 1:** A text input field containing 'grandstream.com' and a trash icon to the right.
- + ADD DOMAIN:** A button below the domain input field.
- Developer contact information:** A heading followed by a text input field for 'Email addresses' and a note: 'These email addresses are for Google to notify you about any changes to your project.'

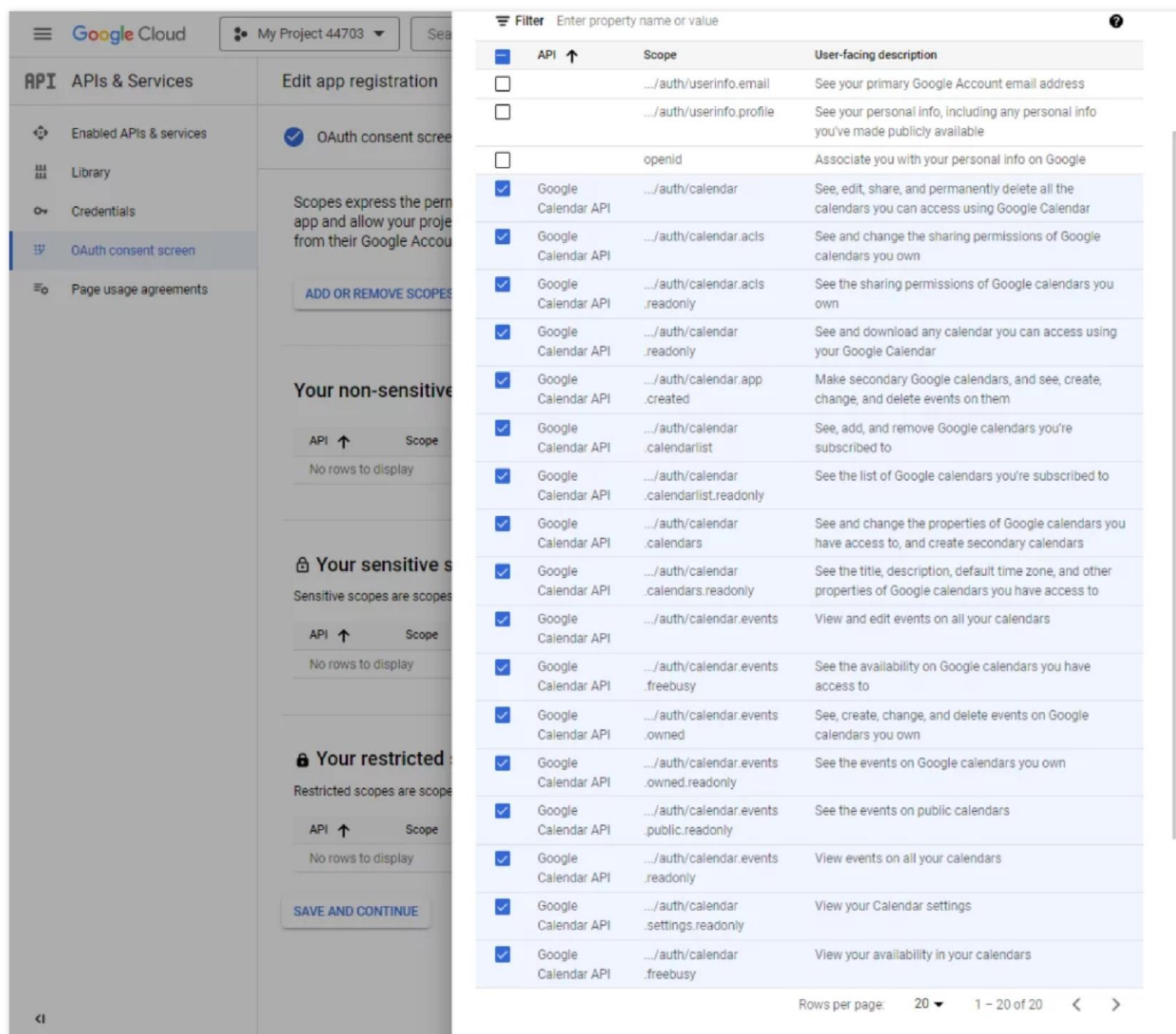
App Registration 2

5. Enter the developer contact email under "Developer contact information" then click on "Save and Continue".
6. Then, click on "Add or Remove Scopes" to add the scopes related to Google Calendar API.



API Scopes

7. Select the scopes which are related to Google Calendar API as shown in the screenshot below. Once selected, click on "Update"



Select Calendar API Scopes

8. Click on "Save and Continue", then the summary screen will appear where you review the settings you have set. Once reviewed, click on "Back to Dashboard".

API ↑	Scope	User-facing description
Google Calendar API	.../auth/calendar	See, edit, share, and permanently delete all the calendars you can access using Google Calendar
Google Calendar API	.../auth/calendar.acs	See and change the sharing permissions of Google calendars you own
Google Calendar API	.../auth/calendar.acs.readonly	See the sharing permissions of Google calendars you own
Google Calendar API	.../auth/calendar.readonly	See and download any calendar you can access using your Google Calendar
Google Calendar API	.../auth/calendar.app.created	Make secondary Google calendars, and see, create, change, and delete events on them
Google Calendar API	.../auth/calendar.calendarlist	See, add, and remove Google calendars you're subscribed to
Google Calendar API	.../auth/calendar.calendarlist.readonly	See the list of Google calendars you're subscribed to
Google Calendar API	.../auth/calendar.calendars	See and change the properties of Google calendars you have access to, and create secondary calendars
Google Calendar API	.../auth/calendar.calendars.readonly	See the title, description, default time zone, and other properties of Google calendars you have access to
Google Calendar API	.../auth/calendar.events	View and edit events on all your calendars

Rows per page: 10 1 - 10 of 17

[BACK TO DASHBOARD](#)

Scope Configuration

Create API Credentials

The next step includes creating the credentials for the authentication. There are 3 types of credentials which can be created, but for this integration we will need to create OAuth credentials. Please follow the steps below to learn how to create them.

1. From the dashboard of Google Cloud Console, please click on "Credentials" on the left sidebar of the dashboard, click on "Create Credentials", then click on "OAuth client ID".

Google Cloud My Project 44703 Search (/) for resources, docs, products, and ... Search

APIs & Services

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

Credentials [+ CREATE CREDENTIALS](#) [DELETE](#) [RESTORE DELETED CREDENTIALS](#)

Create credentials to access your project

API Keys

- Name
- No API keys to display

OAuth 2.0 Client ID

- Name
- Creation date ↓
- Type
- Client ID
- Actions

Service Accounts

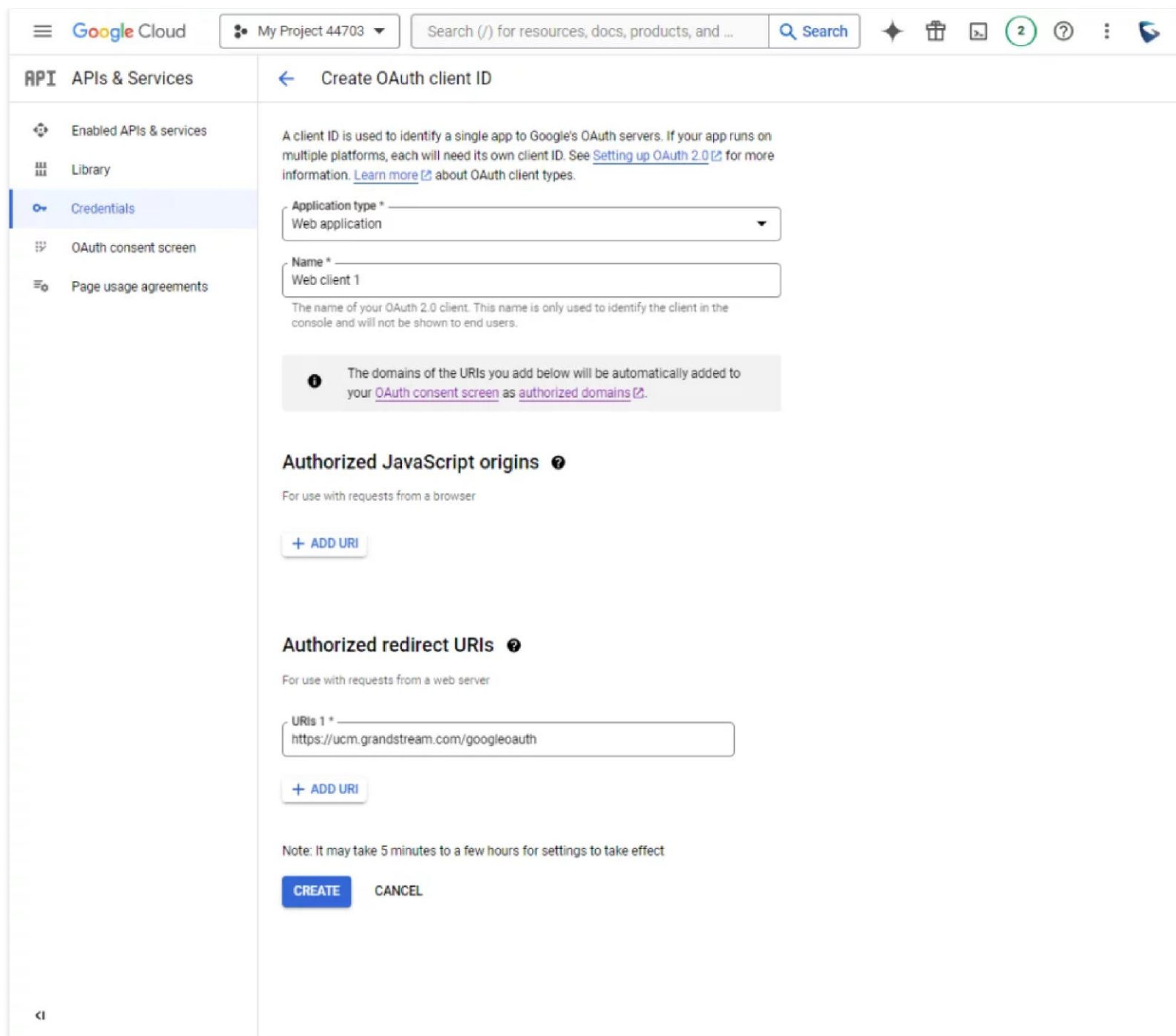
- Email
- Name ↑
- Actions

No service accounts to display

Create OAuth Credentials

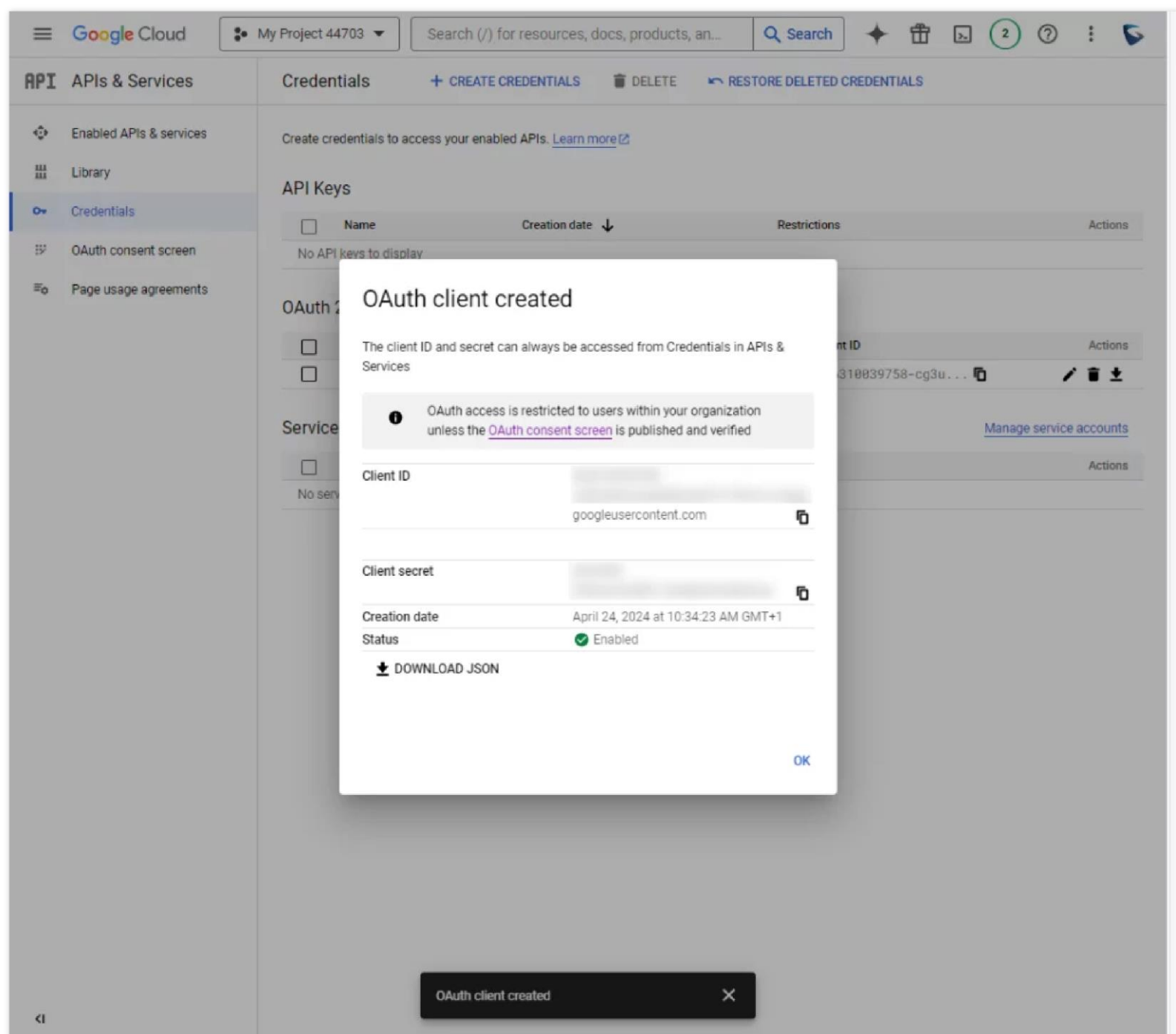
2. Select "Web application" as the **Application Type**, then enter the name of the application in the corresponding field. Enter the URI which will be used for the redirection in **Authorized redirect URIs**. Once that is configured, please click on "Create".

Note: This may take from 5 minutes to a few hours to be set.



Authorized Redirect URIs Configuration

3. The Client ID and Client secret will appear, we will need to keep this window for the next step.



Client ID & Client Secret

API CLIENT CONFIGURATION

This section shows how to configure the API client using the Client ID and the Client secret that we have generated from the previous section. In this example, we are using a UCM6300 Audio Series unit to integrate with Google Calendar API. Please follow the steps below to connect the client to the API successfully.

1. Log into the UCM device using the super administrator account, then navigate to **Integrations > Google Services**, then copy and paste the Client ID and the Client secret in their respective fields. Enter the redirection URI in the **Authorized redirect URIs**, if you have set only one redirection URI on Google API, you can leave this field empty. Then click "Save"

The screenshot shows the 'Google Services' configuration page. Under 'Google Calendar Authorization', there are three input fields: 'OAuth2.0 Client ID' with the value '826310039758-cg3u64hr58eorenez', 'OAuth2.0 Client Secret' with the value 'GOCSPXf-HNne3jXnz8ZP_TsdNFbtX', and 'Authorized redirect URIs' with the value 'https://ucm.grandstream.com/google'. Below these fields are 'Reset' and 'Save' buttons. A section titled 'Google Calendar Authorization' contains a numbered list of four steps: 1. Click 'Get Authorization Code' (with a button), 2. Enter the Google account and password (with a note), 3. Click 'Accept' on authorization page, and 4. Copy the string to the Authorization Code input box, then click the 'Authorize' button. At the bottom, there is an 'Authorization Code' input field and an 'Authorization' button.

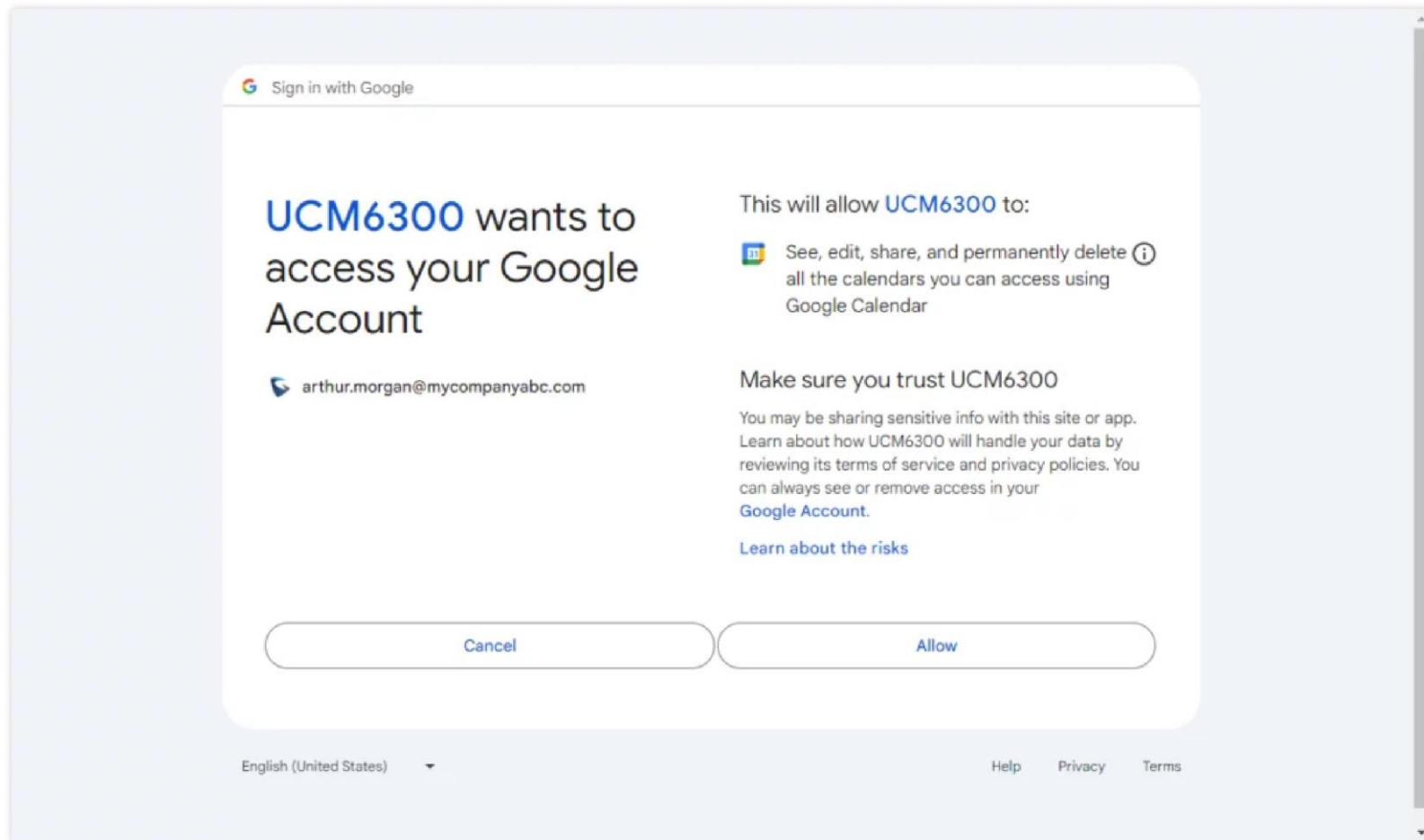
Google Calendar Integration

2. Click on [Get Authorization Code](#) to request access and provide consent to the integration.
3. Choose the account or log in using your Google account.

The screenshot shows the 'Sign in with Google' page. It features a 'Choose an account' section with the text 'to continue to UCM6300'. A list of accounts is shown, including 'Arthur Morgan' with the email 'arthur.morgan@mycompanyabc.com'. Below the list is a link to 'Use another account'. At the bottom, there is a language selector set to 'English (United States)' and links for 'Help', 'Privacy', and 'Terms'.

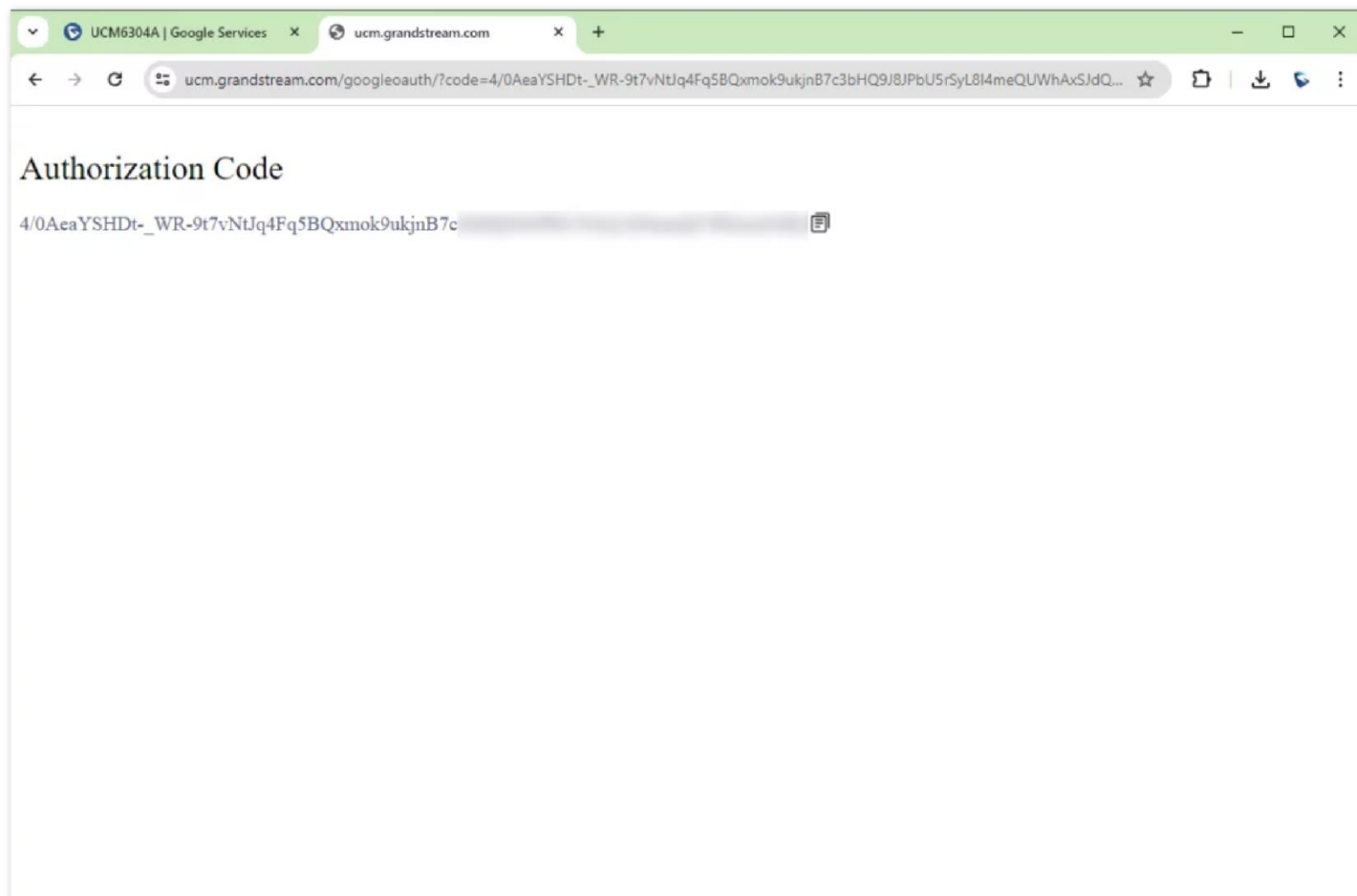
Google Sign in Page

4. Understand the requirements and permissions which will be granted then click "Allow"



Google Account Consent Page

5. A token will be generated after that which can be copied as shown below.



Authorization Code

You can also copy it directly from the address bar, as shown in green highlight below



Web Browser Address Bar

6. Paste the authorization token in **Authorization Code** field, then click **Authorization**

Google Services

[Google Calendar Authorization](#) Google Calendar Settings

Google Calendar Authorization

1. Click "Get Authorization Code". [Get Authorization Code](#)
2. Enter the Google account and password (Note: Please make sure that the account information on the authorization page is correct. If you are not logged into the correct account, please log out and log back into the correct one.).
3. Click "Accept" on authorization page.
4. Copy the string to the Authorization Code input box, then click the "Authorize" button.

* Authorization Code [Authorization](#)

You will get to following message to indicate that the integrations has been done successfully.

✔ **Authorization successfully!**

Authorized
Account **arthur.morgan@mycompanyabc.com**

Authorization Successful

EXAMPLE SCENARIO

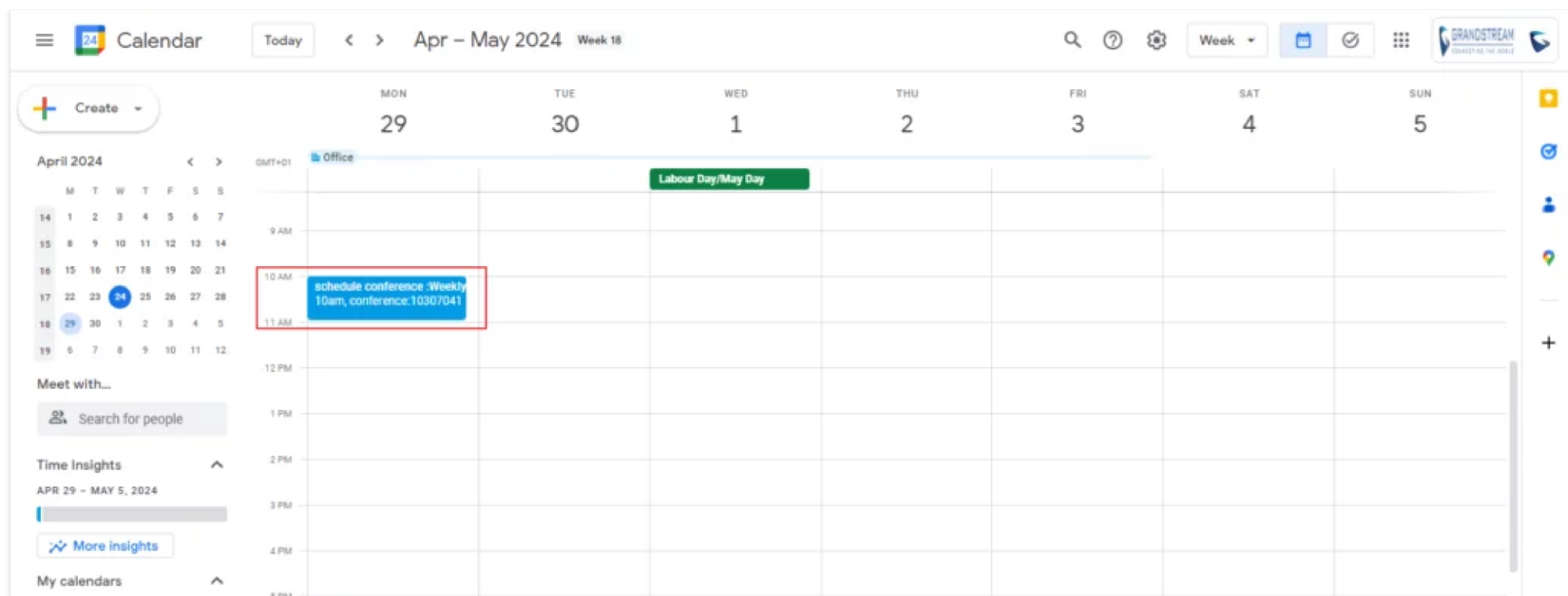
To demonstrate how this option works, we will schedule meeting on the UCM. To do that, please navigate to **Call Features > Multimedia Meeting (Meeting for UCM6300 Audio Series) > Meeting**, then click on **"Schedule Meeting"**. Make sure to enable "Sync to Google Calendar" as shown in the screenshot below. Then click "Save".

Meeting > Schedule Meeting

<p>* Meeting Subject <input type="text" value="Weekly_Meeting"/></p> <p>* Time <input type="text" value="2024-04-29"/> <input type="text" value="10:00-11:00"/></p> <p>Password <input type="text"/></p> <p>* Host <input type="text" value="1000"/> <input type="text" value="Please enter Email A"/></p> <p>Allow User Invite <input checked="" type="checkbox"/></p> <p>* Email Reminder (m) <input type="text" value="60"/></p> <p>Sync to Google Calendar <input checked="" type="checkbox"/> Google Services</p> <p>Invitees</p> <div style="border: 1px solid #ccc; padding: 5px;"> <p>1001 (Add Email Address) ×</p> <p>1002 (Add Email Address) ×</p> <p>1003 (Add Email Address) ×</p> <p>1004 (Add Email Address) ×</p> <p>Please enter and submit participants with th</p> <p style="text-align: right;">4/119</p> <p>Add</p> <p style="font-size: small; color: orange;">1001, 1002, 1003, 1004 has not configured an email address and could not receive a meeting notification email.</p> </div>	<p>Meeting Room <input type="checkbox"/> Public Meeting Room</p> <p>* Time Zone <input type="text" value="(UTC+01:00) Etc/GMT-1"/></p> <p>* Host Password <input type="text" value="5021"/></p> <p>Repeat <input type="text" value="No Repeat"/></p> <p>Call Participants <input checked="" type="checkbox"/></p> <p>Allowed to Override Host Mute <input type="checkbox"/></p> <p>* Auto Record <input type="text" value="None"/></p> <p>Meeting Agenda <input type="text"/></p>
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Schedule a Meeting

The meeting will marked automatically on the calendar.



Google Calendar

SUPPORTED DEVICES

Device Model	Firmware Version
GCC6000 Series	PBX 1.0.25.11 or higher
UCM6300 Series	1.0.25.7 or higher
UCM6300 Audio Series	
CloudUCM	1.0.25.13 or higher