

# Google Calendar API Integration

## INTRODUCTION

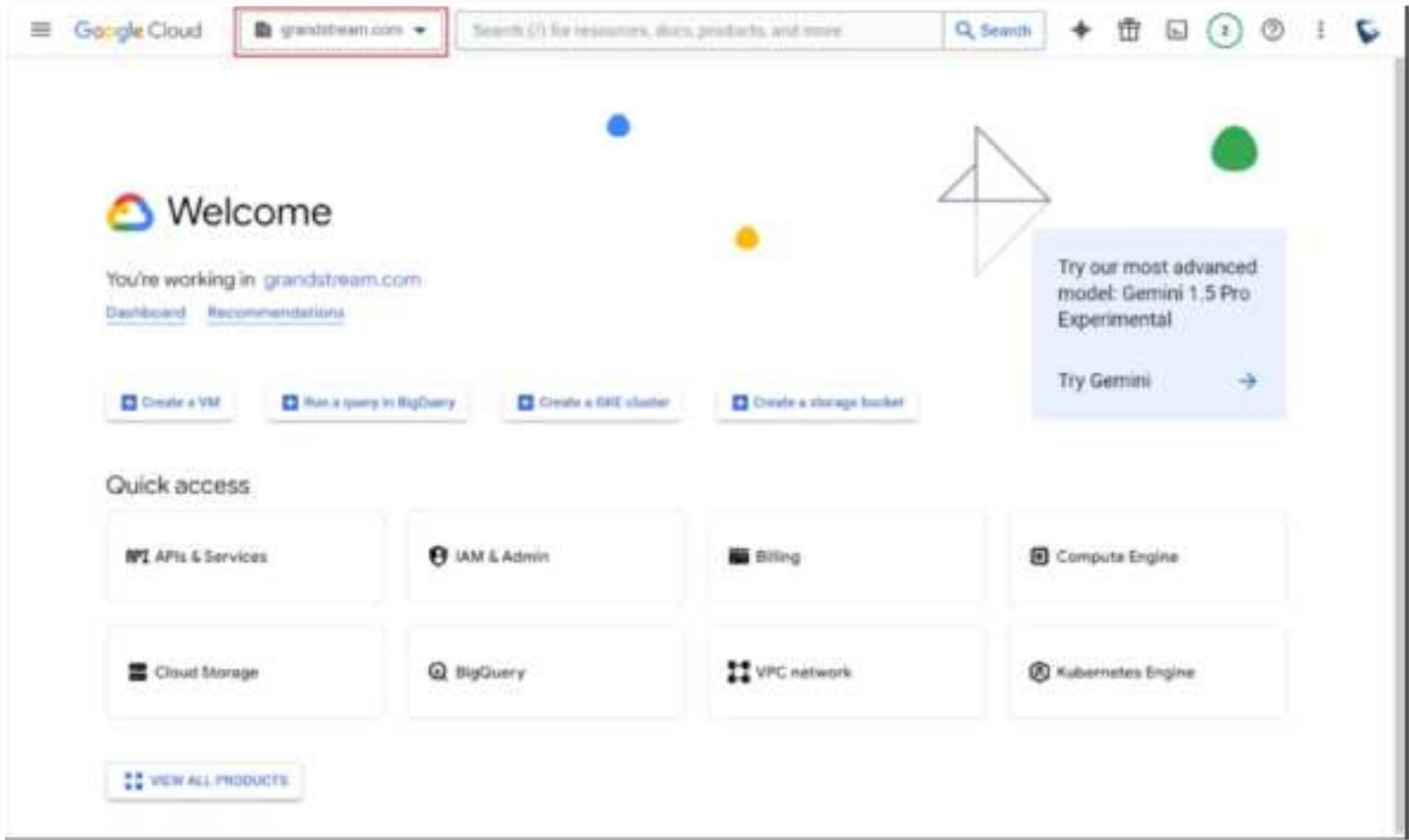
This guide shows the steps required to create an API integration between Google Calendar and supported Grandstream devices. To set up this integration successfully, the user needs to have a Google Account with Workspace enabled to access Google Workspace API, and a Grandstream device that supports Google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

## GOOGLE API CONFIGURATION

### Create Google Cloud Project

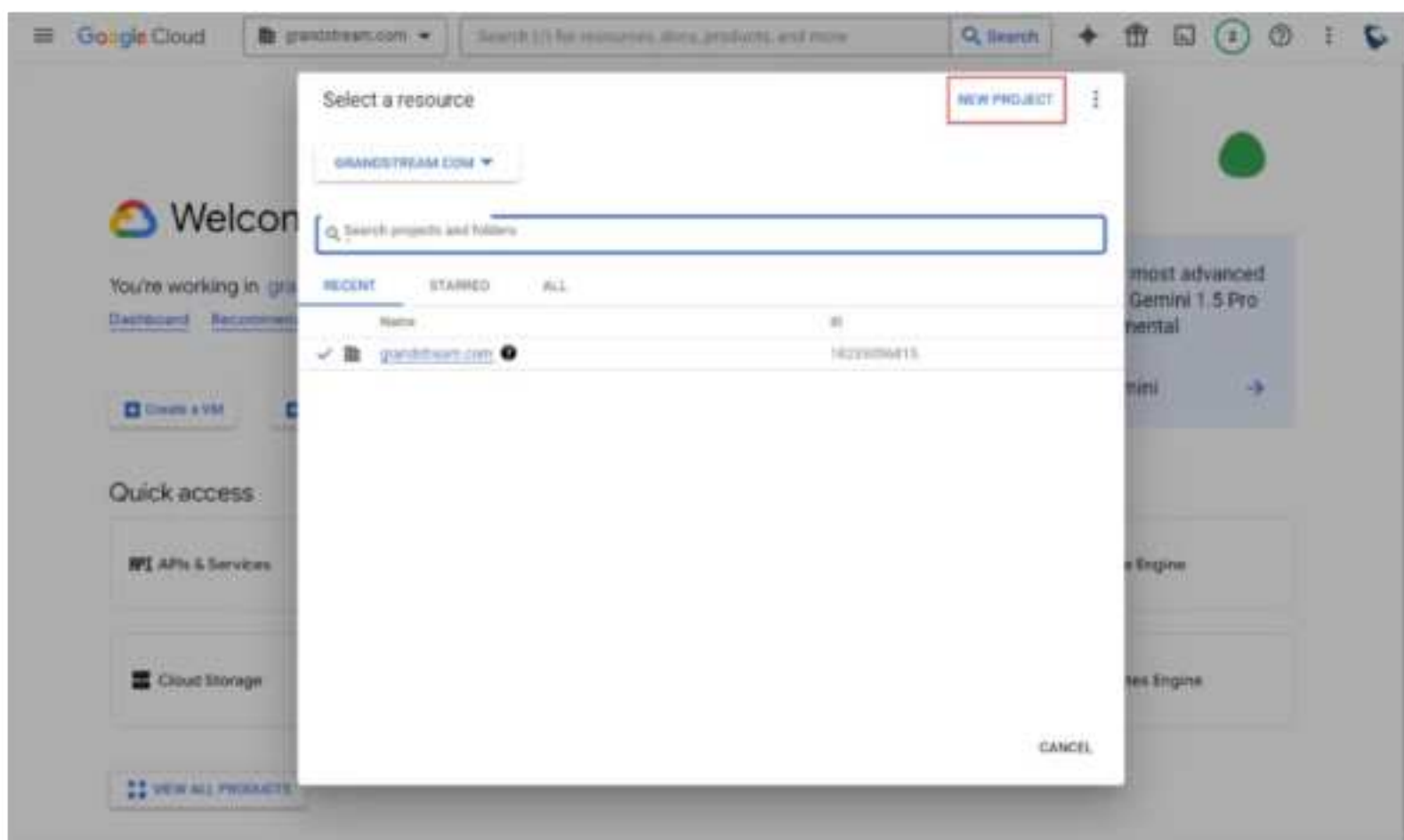
To use Google Workspace API, the user should access Google Cloud Console and create a project, to do that, please follow the steps below:

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



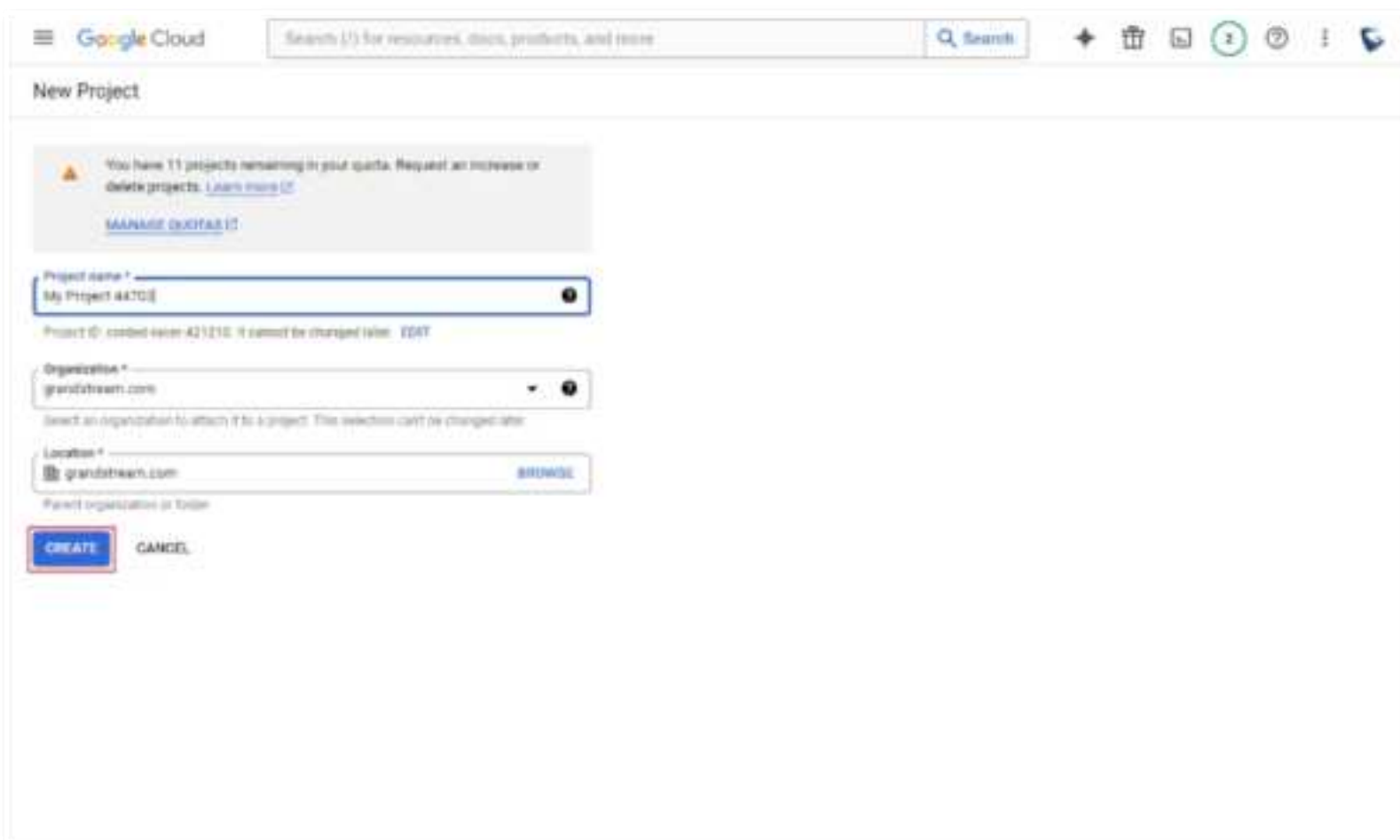
Google Cloud Console Home Page

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



Projects List

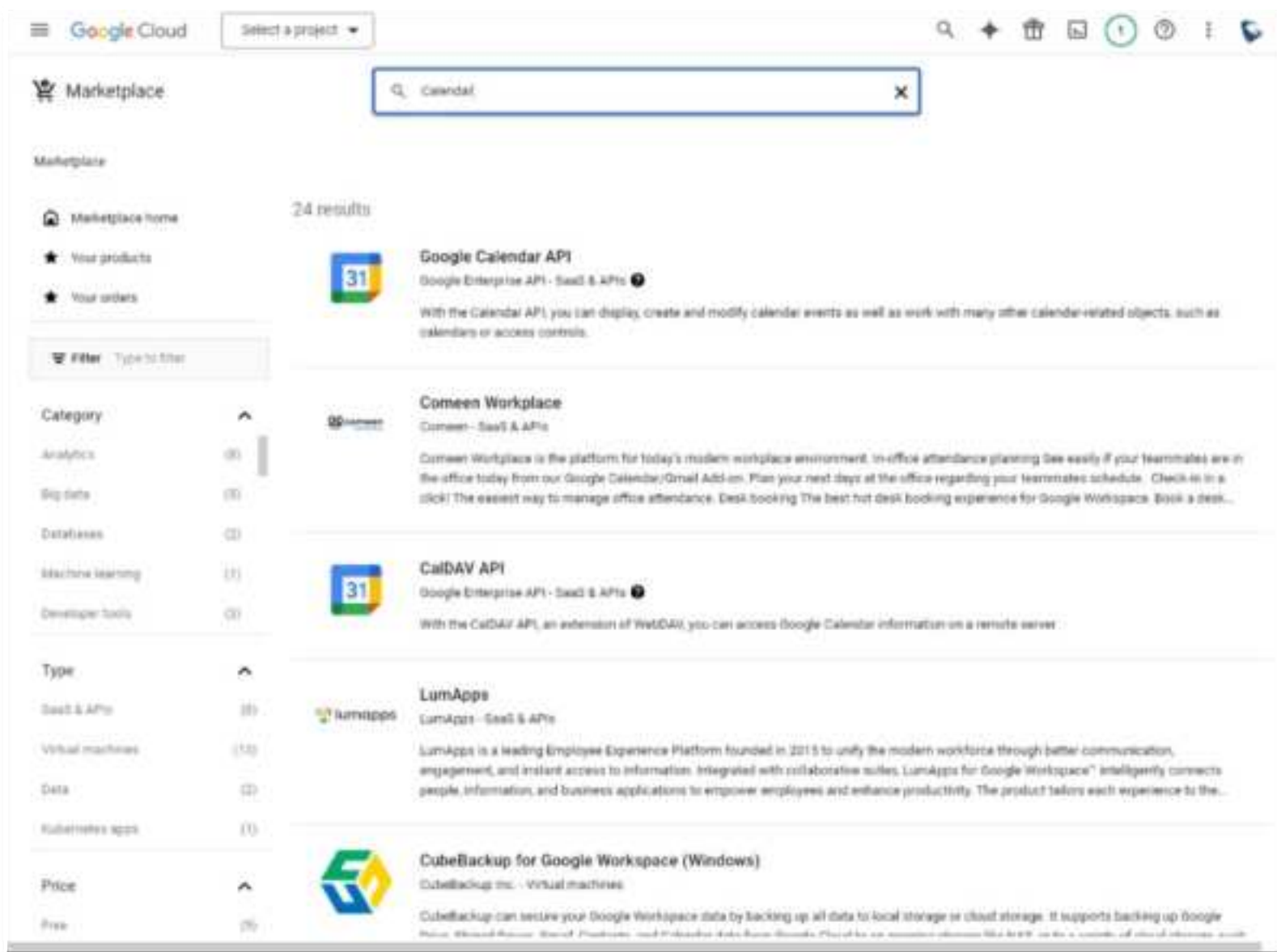
5. Enter the project name and click "Create"



Create New Project

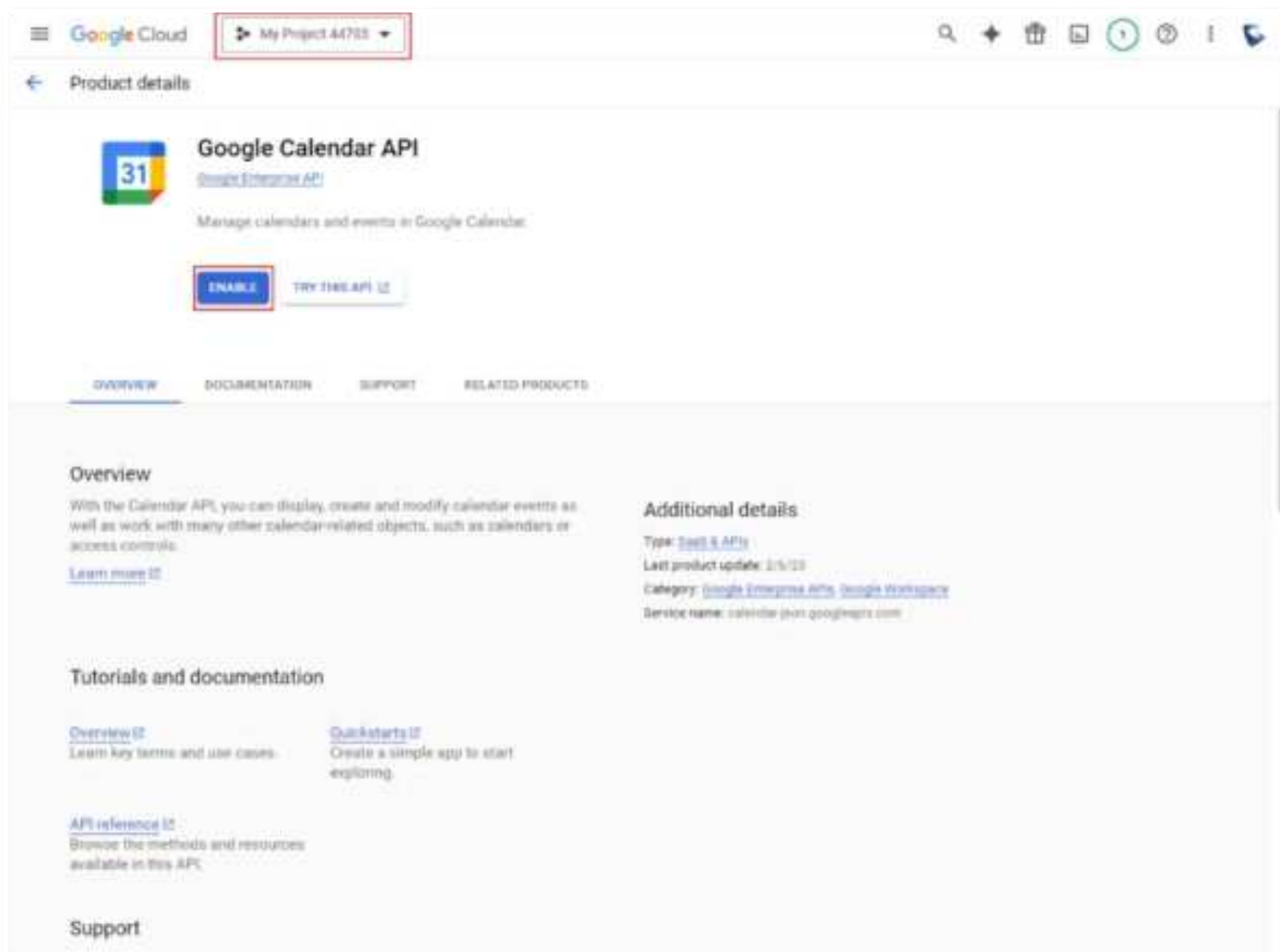
## Enable Google Calendar API

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.



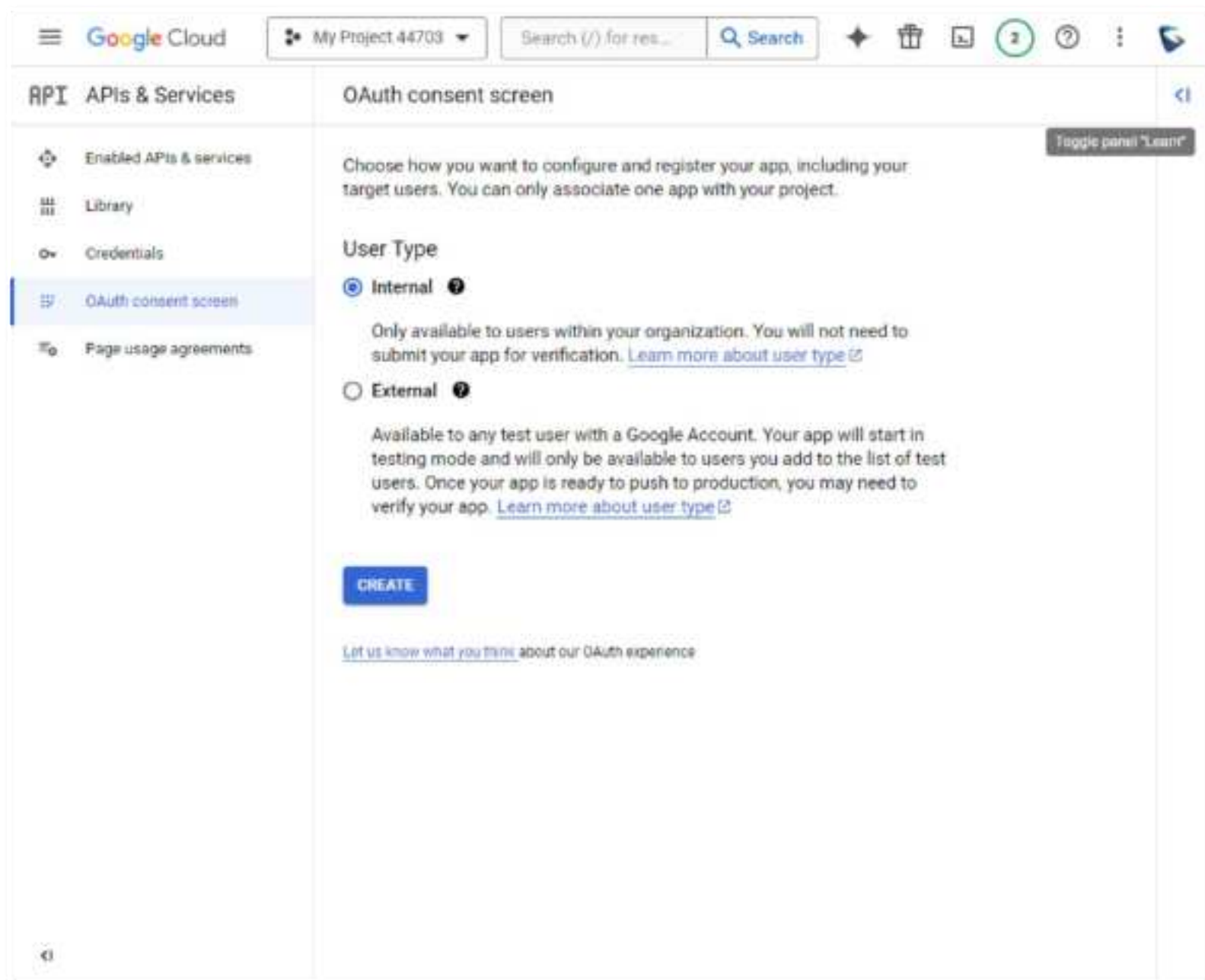
Enable Google Calendar API

## 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

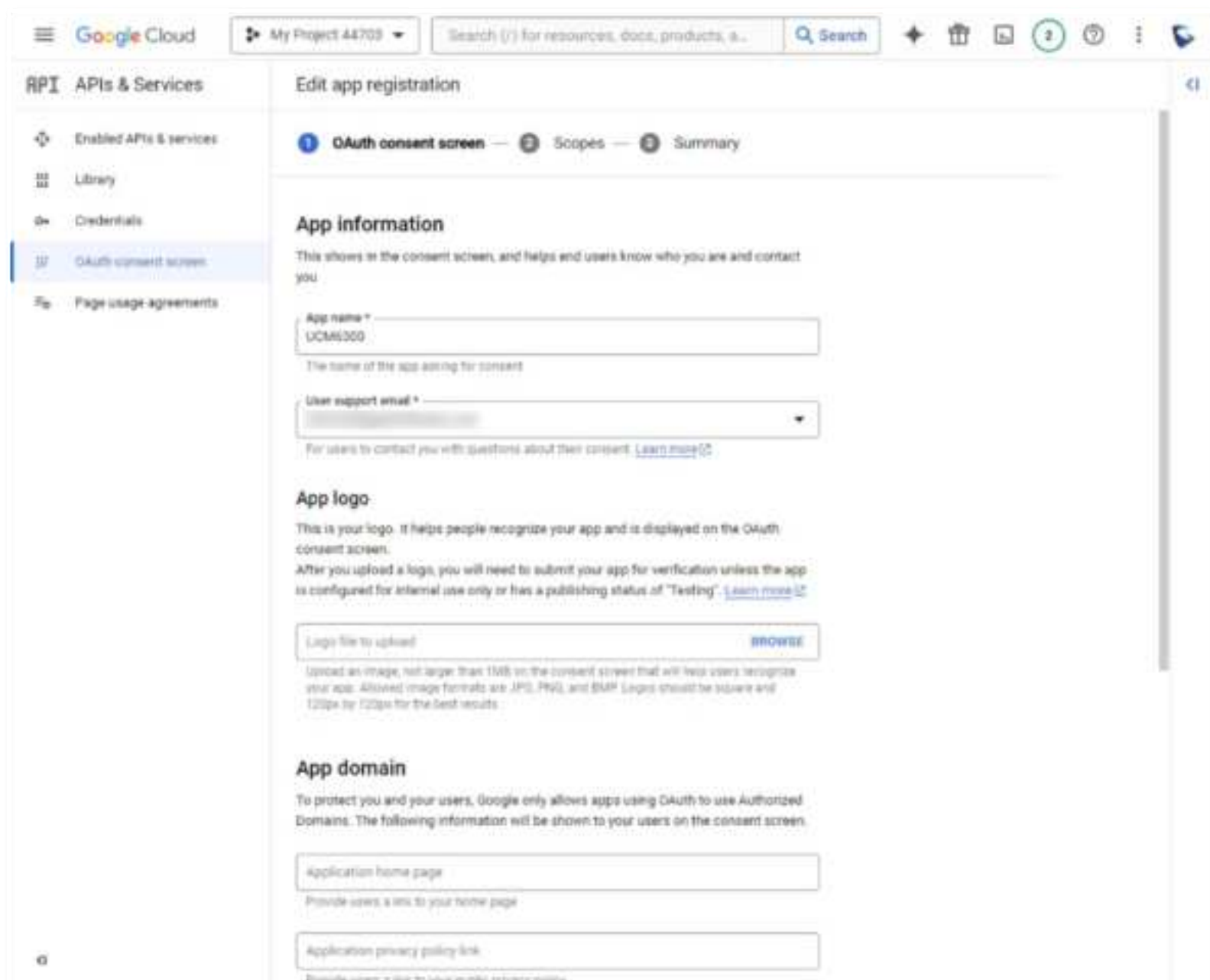
user the API integration.



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.

Google Cloud | My Project 44703 | Search (r) for resources, docs, products, a... | Search

APIs & Services

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

### Edit app registration

Logo file to upload [BROWSE](#)

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

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 home page  
Provide users a link to your home page

Application privacy policy link  
Provide users a link to your public privacy policy

Application terms of service link  
Provide users a link to your public terms of service

#### Authorized domains ?

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 tool.

Authorized domain 1 \*

[+ ADD DOMAIN](#)

#### Developer contact information

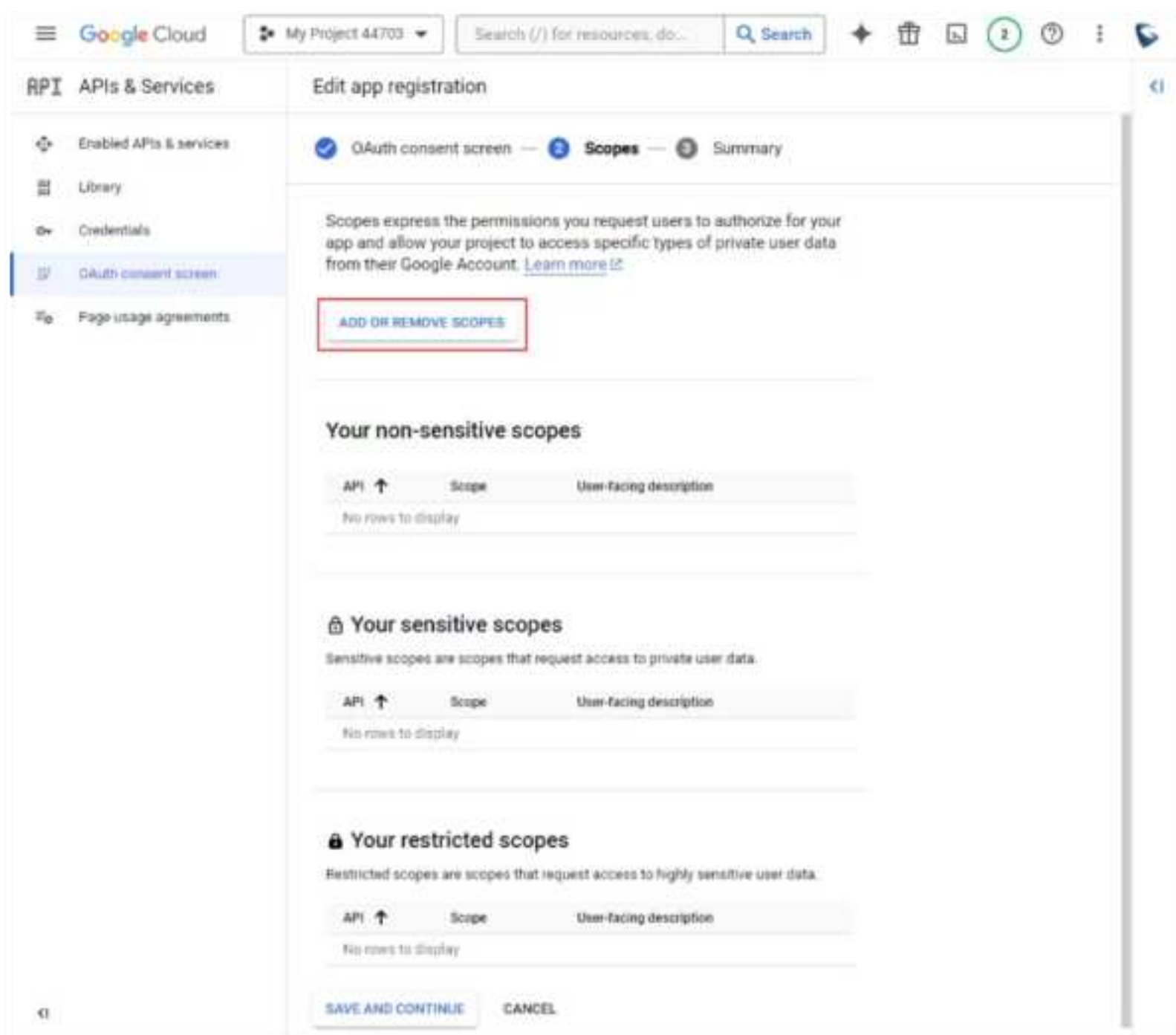
Email addresses \*

These email addresses are for Google to notify you about any changes to your project.

App Registration 2

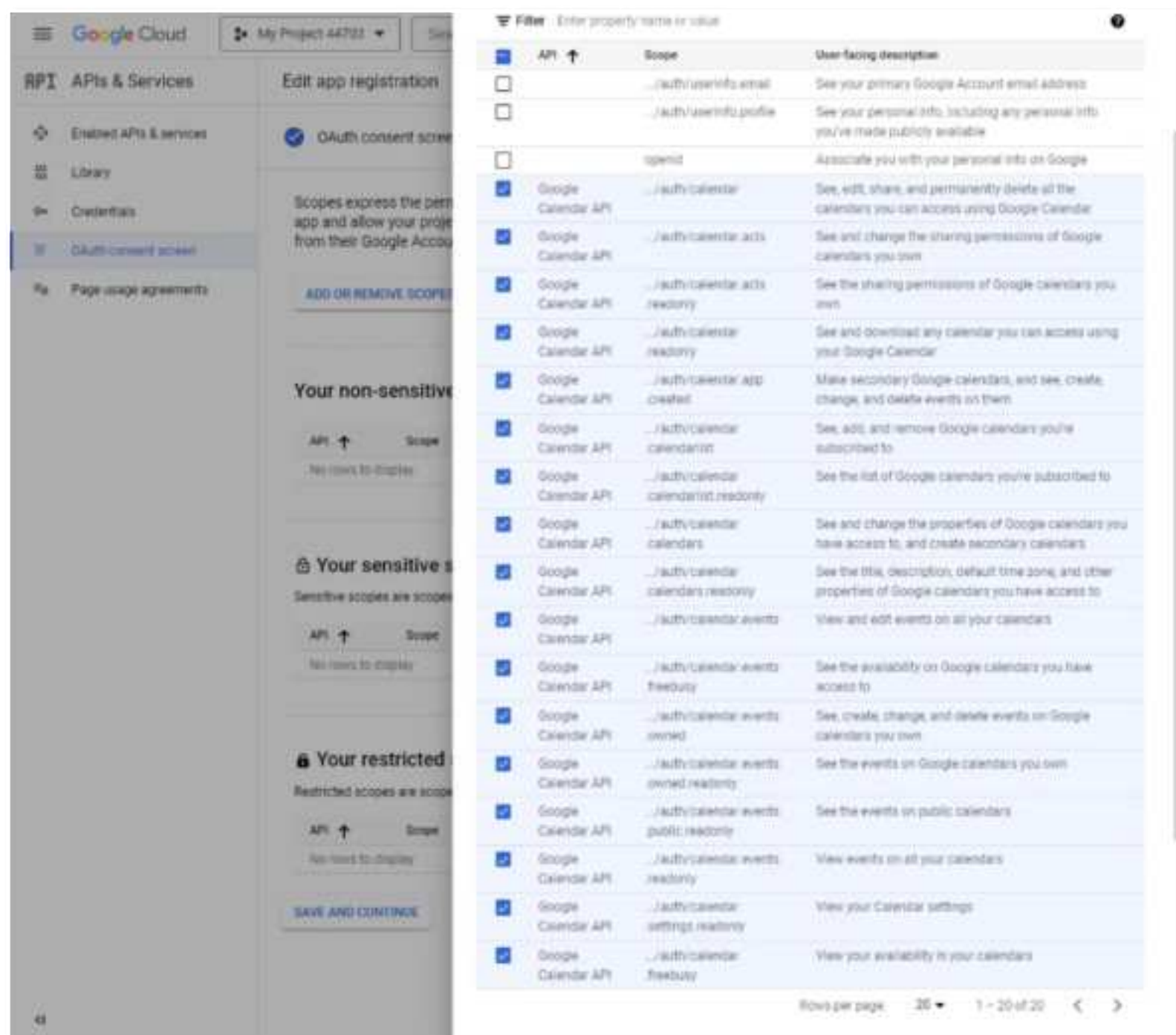
5. Enter the developer contact email under “Developer contact information” then click on “Save and Continue”.
6. Then, click on “Add or Remove Scoopes” to add the scopes related to Google Calendar API.





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”.

Scopes

EDIT

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.acis	See and change the sharing permissions of Google calendars you own
Google Calendar API	.../auth/calendar.acis.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 44702

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 act

API Keys

OAuth 2.0 Client ID

Service Accounts

API key

Identifies your project using a simple API key to check quota and access

OAuth client ID

Requests user consent so your app can access the user's data

Service account

Enables server-to-server, app-to-app authentication using robot accounts

Help me choose

Ask a few questions to help you decide which type of credential to use

Name

Create date ↓

Type

Client ID

Actions

No API keys to display

No OAuth clients to display

Name ↑

Actions

No service accounts to display

Manage service accounts

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.

Google Cloud | My Project 44733 | Search (/) for resources, docs, products, and ...

APIs & Services

- Enabled APIs & 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 1  
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.

**Authorized JavaScript origins**  
For use with requests from a browser  
[+ ADD URI](#)

**Authorized redirect URIs**  
For use with requests from a web server  
URI 1 \*  
  
[+ ADD URI](#)

Note: It may take 5 minutes to a few hours for settings to take effect.

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

Authorized Redirect URIs Configuration

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

Google Cloud | My Project 44733 | Search (/) for resources, docs, products, and ...

APIs & Services

- Enabled APIs & services
- Library
- Credentials**
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- Page usage agreements

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

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

#### API Keys

Name	Creation date	Restrictions	Actions
No API keys to display			

#### OAuth

Name	Creation date	Status	Actions
No OAuth clients to display			

#### Service accounts

Name	Creation date	Status	Actions
No service accounts to display			

### OAuth client created

The client ID and secret can always be accessed from Credentials in APIs & Services.

OAuth access is restricted to users within your organization unless the [OAuth consent screen](#) is published and verified.

Client ID  
googleusercontent.com...

Client secret  
[Long alphanumeric string]

Creation date  
April 24, 2024 at 10:34:23 AM GMT+1

Status  
Enabled

[DOWNLOAD JSON](#)

[OK](#)

OAuth client created

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"

Google Services

Google Calendar Authorization

Google Calendar Settings

OAuth2.0 Authentication

• OAuth2.0 Client ID

826310039758-cg3u64hr56eorener

• OAuth2.0 Client Secret

GOCSPxRj-HNne3jXnz8ZF\_TsdNFbDk

Authorized redirect URIs

https://ucm.grandstream.com/goog

Reset

Save

Google Calendar Authorization

1

1. Click "Get Authorization Code".

Get Authorization Code

2

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

3. Click "Accept" on authorization page.

4

4. Copy the string to the Authorization Code input box, then click the "Authorize" button.

• Authorization Code

Authorization

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.

Sign in with Google

Choose an account

to continue to UCM6300

Arthur Morgan

arthur.morgan@mycompanyabc.com

Use another account

English (United States)

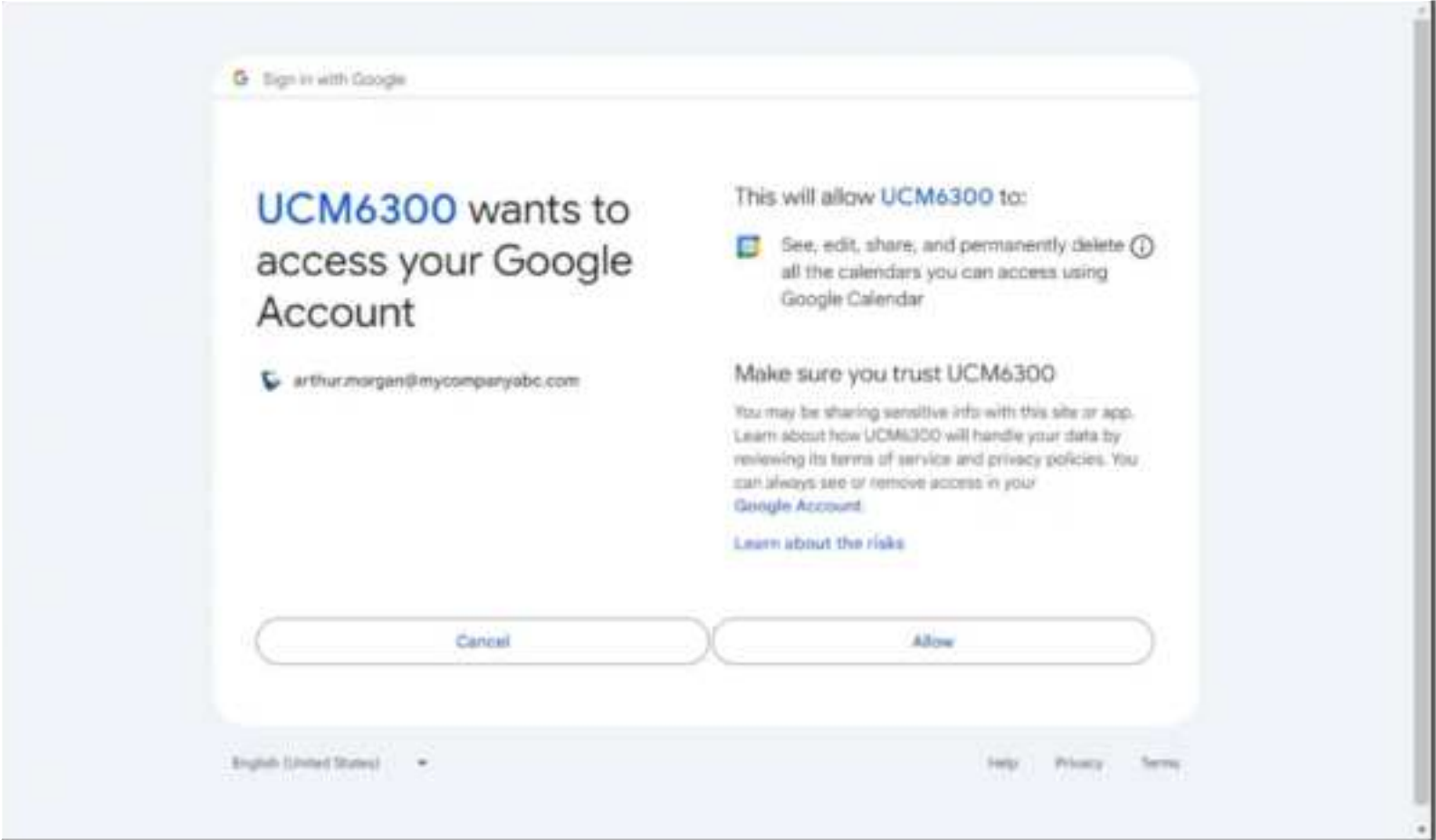
Help

Privacy

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

1. Click "Get Authorization Code".

Get Authorization Code

2

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

3. Click "Accept" on authorization page.

4

4. Copy the string to the Authorization Code input box, then click the "Authorize" button.

• Authorization Code

h/0

pk9ul

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

• Meeting Subject

Weekly\_Meeting

• Time

2024-04-29

10:00-11:00

• Host

1000

Please enter Email Address

• Email Reminder (m)

60

• Sync to Google Calendar

Google Services

Meeting Room

Public Meeting Room

• Time Zone

(UTC+01:00) Etc/GMT-1

• Host Password

5021

Repeat

No Repeat

Call Participants

Allowed to Override Host Mute

• Auto Record

None

Meeting Agenda

Invites

1001 (Full Email Address) \*

1002 (Full Email Address) \*

1003 (Full Email Address) \*

1004 (Full Email Address) \*

Please enter and submit participants with it

4/118

Add

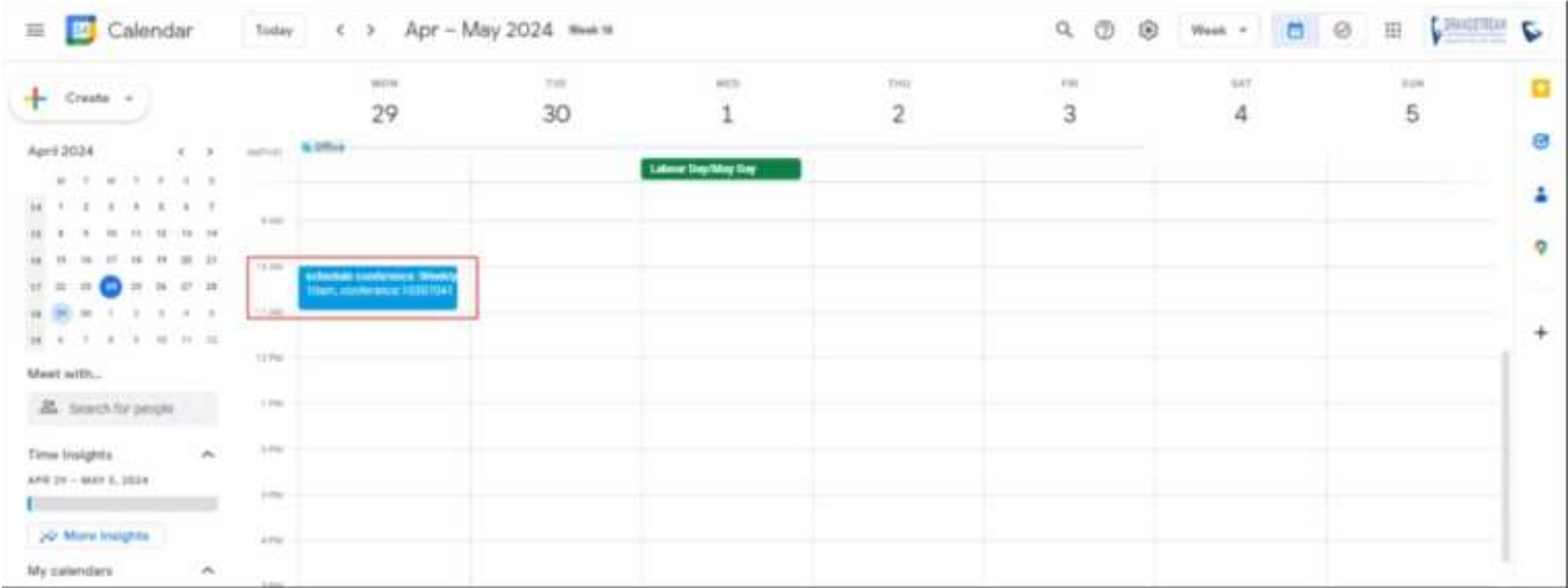
1001, 1002, 1003, 1004 has not configured an email address and could not receive a meeting notification email.

Cancel

Save

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