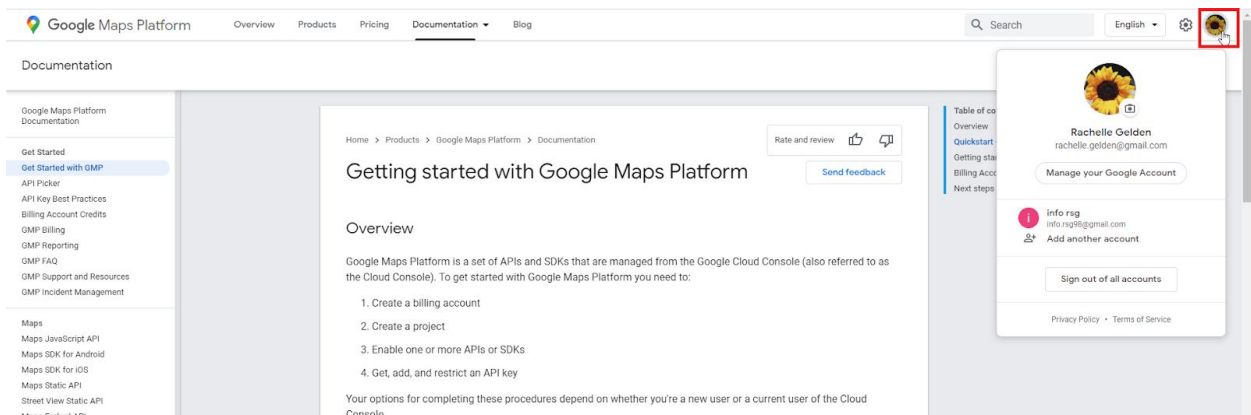


Google Maps API - Setup Instructions

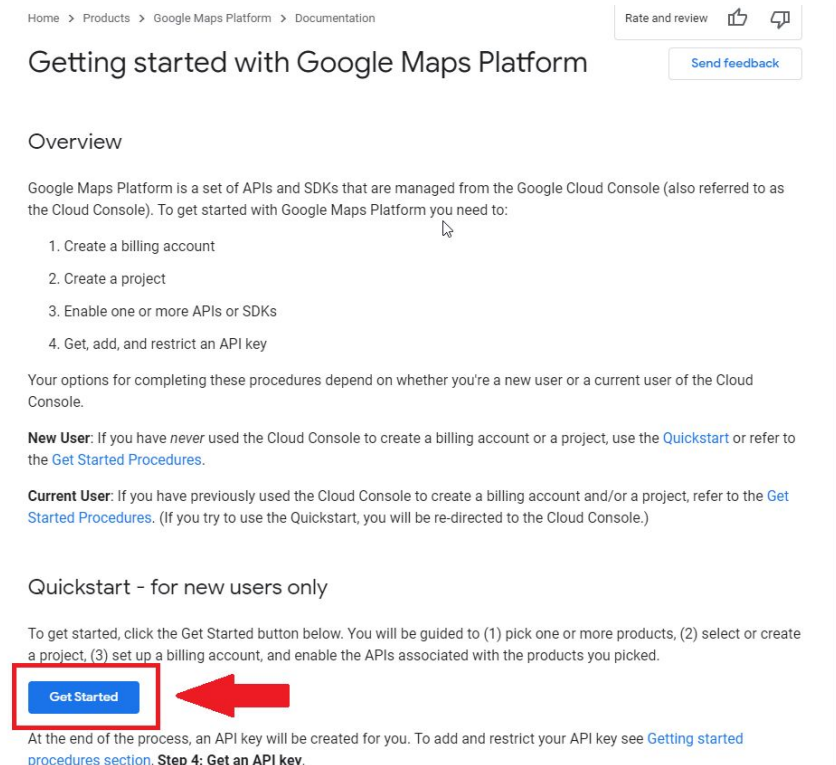
Step 1 - Navigating to the Google Maps Platform

We need to create an account on this platform using your existing Google account. To do this, go to <https://developers.google.com/maps/gmp-get-started>.

Ensure that you are logged in to the google account that you want to associate the billing account and project with. You can check this by clicking on the icon on the top right-hand side of the screen.

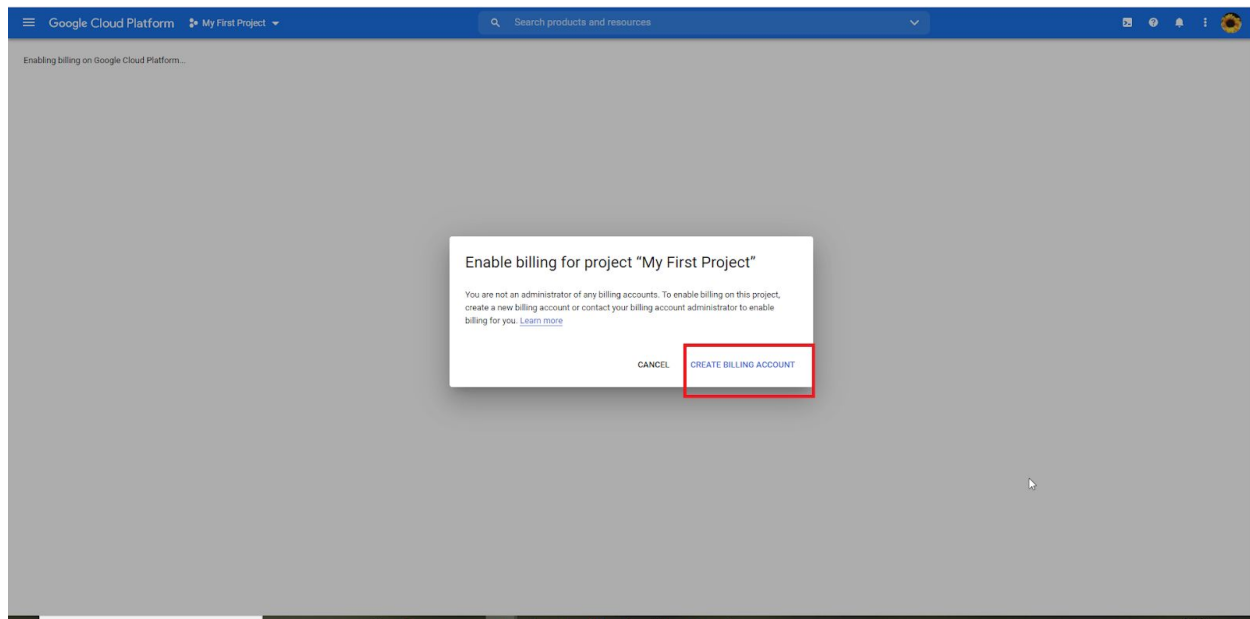


After that, click on the “Get Started” button to create a billing account.



Step 2 - Create a Billing Account

After clicking on “Get Started” you will be brought to the following screen, click on “Create Billing Account”



You will then be brought to the following screen, ensure that the correct account and country are selected, then agree to the terms and conditions.

Try Google Cloud Platform for free

Step 1 of 2



Rachelle Gelden
rachelle.gelden@gmail.com

[SWITCH ACCOUNT](#)

Country

Canada

Terms of Service

☒ I have read and agree to the [Google Cloud Platform Free Trial Terms of Service](#).

Required to continue

[CONTINUE](#)

Access to all Cloud Platform Products

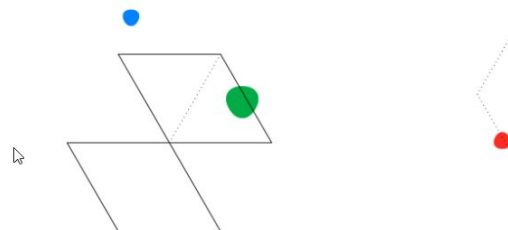
Get everything you need to build and run your apps, websites and services, including Firebase and the Google Maps API.

\$300 credit for free

Put Google Cloud to work with \$300 in credit to spend over the next 90 days.

No autocharge after free trial ends

We ask you for your credit card to make sure you are not a robot. You won't be charged unless you manually upgrade to a paid account.



[Privacy policy](#) | [FAQs](#)

Next, you will need to either select or create a payment profile and review your information.

Step 2 of 2

Your payment information helps us reduce fraud and abuse. You won't be charged unless you turn on automatic billing.

Payments profile ⓘ

Choose the payments profile that will be associated with this account or transaction. A payments profile is shared and used across all Google products.



Rachelle Gelden

Individual profile for Play, Books, and YouTube

Payments profile ID: 1179-0165-4158




Customer info



Account type ⓘ

Individual



Name and address ⓘ 

Rachelle Gelden

714 17A Street Southeast

High River, AB T1V 1S4

Canada

How you pay



Monthly automatic payments

You pay for this service on a regular monthly basis, via an automatic charge when your payment is due.

Payment method ⓘ



Visa **** 4641



START MY FREE TRIAL

Access to all Cloud Platform Products

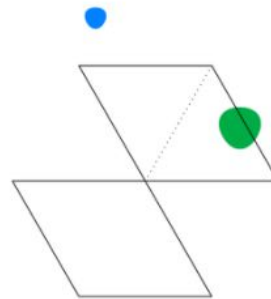
Get everything you need to build and run your apps, websites and services, including Firebase and the Google Maps API.

\$300 credit for free

Put Google Cloud to work with \$300 in credit to spend over the next 90 days.

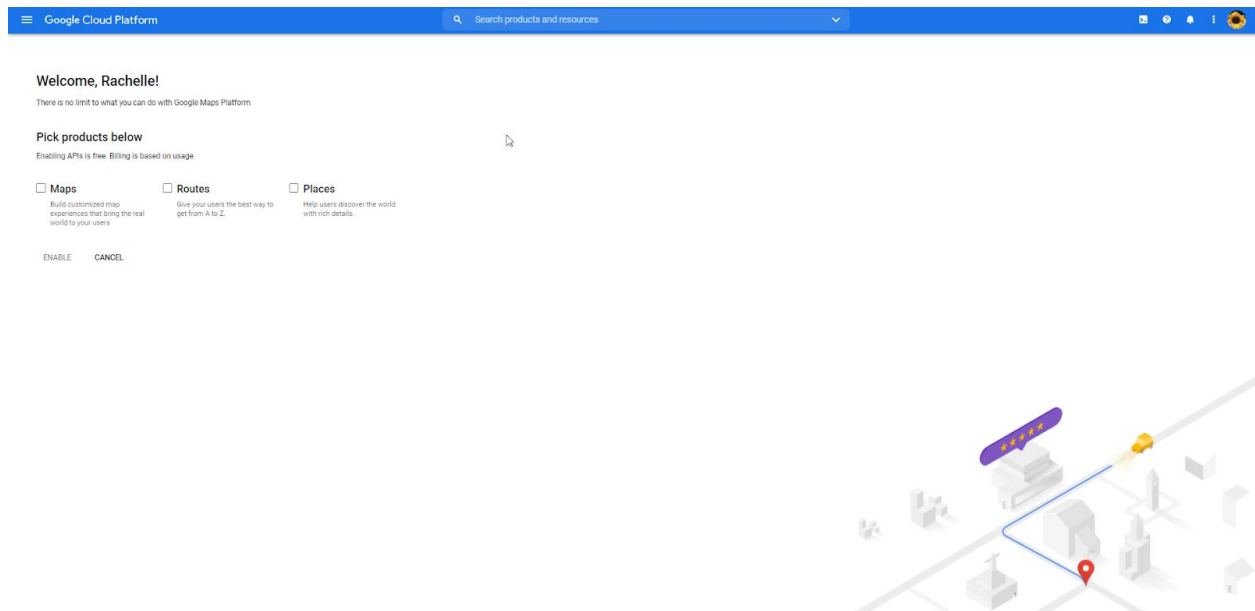
No autocharge after free trial ends

We ask you for your credit card to make sure you are not a robot. You won't be charged unless you manually upgrade to a paid account.



Once you are satisfied that all the information is correct, click “Start My Free Trial”.

After clicking on “Start My Free Trial” you will be brought to the following page - your billing account is now created.



Step 3 - Create a new project

From the screen above, click on the dropdown to the right of “Google Cloud Platform”



Welcome, Rachelle!

There is no limit to what you can do with Google Maps Platform

Pick products below

Enabling APIs is free. Billing is based on usage.

☐ Maps

Build customized map experiences that bring the real world to your users

ENABLE

☐ Routes

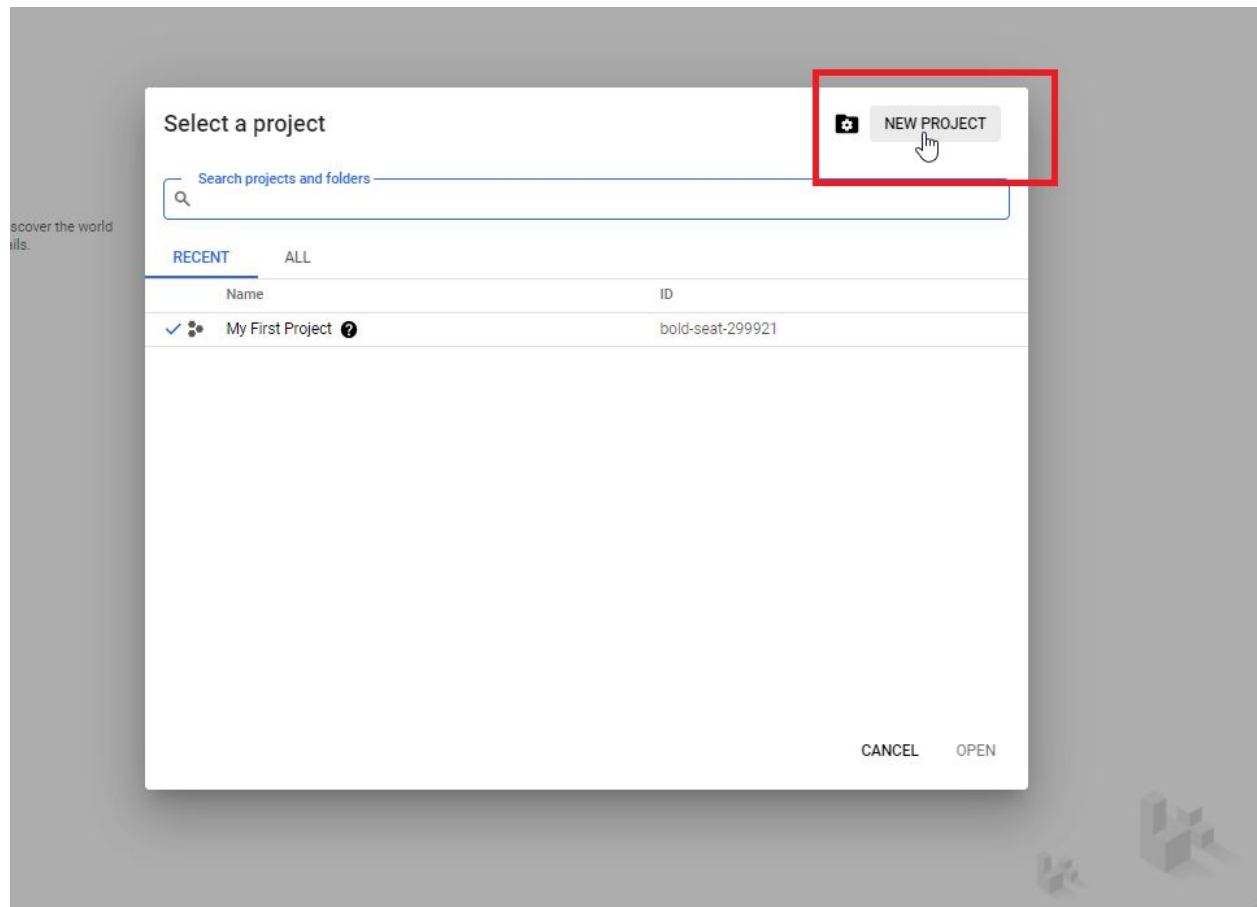
Give your users the best way to get from A to Z.

CANCEL

☐ Places

Help users discover the world with rich details.

Clicking on the dropdown will open the following window, from here, click on “New Project”.

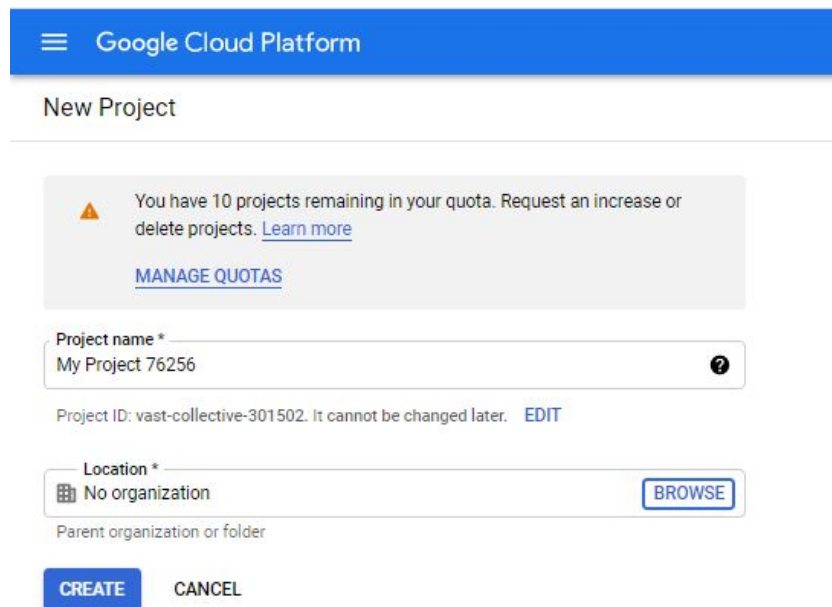


This will open a new page where you can fill out details for the project.

Each team is going to have their own project, so it would make sense to name the project something along the lines of “Home-Together-Canada-C” where the letter is used to distinguish which team it belongs to.

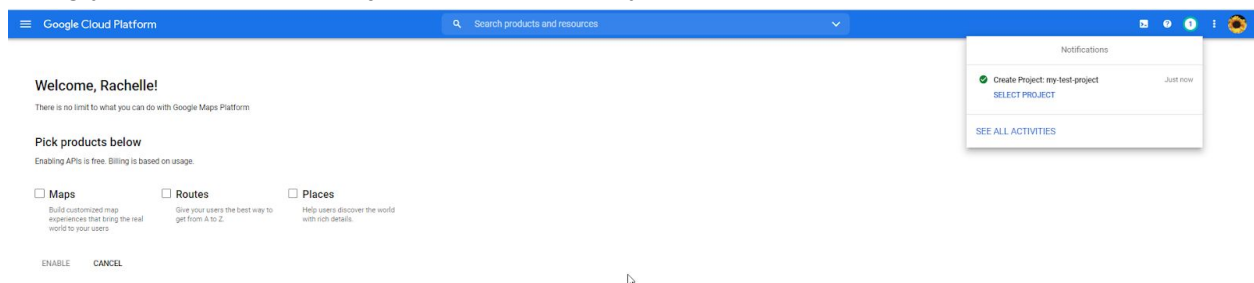
If you have an organization setup, then you can use that for location, but it is okay to proceed with no organization.

Click “Create” when all fields have been filled out.



The screenshot shows the 'New Project' page in the Google Cloud Platform console. At the top is a blue header with the Google Cloud Platform logo. Below the header, the title 'New Project' is displayed. A warning message states: 'You have 10 projects remaining in your quota. Request an increase or delete projects. [Learn more](#)'. Below this is a link to 'MANAGE QUOTAS'. The 'Project name' field is required and contains the text 'My Project 76256'. Below the name field, the 'Project ID' is shown as 'vast-collective-301502', with a note that it cannot be changed later and an 'EDIT' link. The 'Location' field is required and currently shows 'No organization', with a 'BROWSE' button next to it. At the bottom are 'CREATE' and 'CANCEL' buttons.

After clicking create, you should be returned to the previous page and receive a notification letting you know that the project was successfully created.



The screenshot shows the Google Cloud Platform dashboard. The top navigation bar includes the Google Cloud Platform logo, a search bar, and user profile icons. The main content area displays a welcome message for 'Rachelle!' and a section titled 'Pick products below' with options for 'Maps', 'Routes', and 'Places'. A notification panel on the right side of the screen shows a success message: 'Create Project: my-test-project' with a 'SELECT PROJECT' button and a 'SEE ALL ACTIVITIES' link.

Step 4 - Enable Required APIs

Open a new tab in your web browser and go to

<https://developers.google.com/maps/gmp-get-started#enable-api-sdk> and click on “Maps API Library Page”

The screenshot shows the Google Maps Platform documentation page. The sidebar on the left contains links for 'Get Started', 'Maps', 'Routes', 'Places', and 'Time Zone API'. The main content area has a 'Quickstart' section for new users and a 'Getting started procedures' section. In the 'Getting started procedures' section, a red box highlights the 'Maps API Library page' link, which is part of the 'Step 3: Enable APIs or SDKs' procedure.

After clicking on “Maps API Library Page” you will be brought to the following page.

The screenshot shows the Google Cloud Platform 'Maps API Library' page. The page has a blue header with the Google Cloud Platform logo and a search bar. Below the header, there is a 'Filter by' section and a grid of 17 API cards. Each card contains a Google logo, the API name, and a brief description. The 'Geocoding API' card is highlighted with a red box.

From here, you can enable APIs by clicking on the boxes. For example, to enable the “Geocoding API” click on the box titled “Geocoding API” and you will be brought to the following page.

Free trial status: \$384.05 credit and 90 days remaining - with a full account, you'll get unlimited access to all of Google Cloud Platform.

Google Cloud Platform my-test-project

Geocoding API

Google

Convert between addresses and geographic coordinates.

ENABLE
Click to enable this API

OVERVIEW PRICING DOCUMENTATION SUPPORT

Overview

Convert addresses into geographic coordinates (geocoding), which you can use to place markers or position the map. This API also allows you to convert geographic coordinates into an address (reverse geocoding).

About Google

Google's mission is to organize the world's information and make it universally accessible and useful. Through products and platforms like Search, Maps, Gmail, Android, Google Play, Chrome and YouTube, Google plays a meaningful role in the daily lives of billions of people.

Additional details

Type: [APIs & services](#)
Last updated: 12/9/19
Category: [Maps](#)
Service name: geocoding-backend.googleapis.com

After enabling an API, you will be brought to the following page.

Free trial status: \$384.05 credit and 90 days remaining - with a full account, you'll get unlimited access to all of Google Cloud Platform.

Google Cloud Platform my-test-project

Google Maps Platform Metrics Maps JavaScript API

Granularity: Queries per day Group by: Response Code All Credentials API: Maps JavaScript API All Response Codes MORE FILTERS

RESET ZOOM 1 hour 6 hours 12 hours 1 day 2 days 4 days 7 days 14 days 30 days

Traffic by Response Code

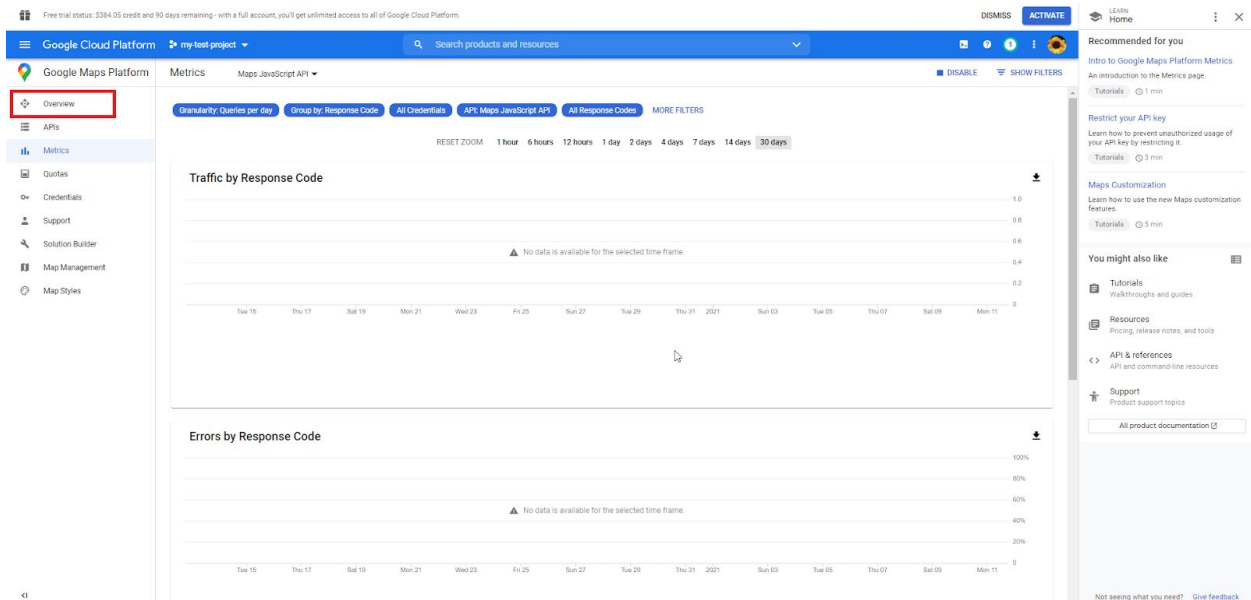
No data is available for the selected time frame.

Errors by Response Code

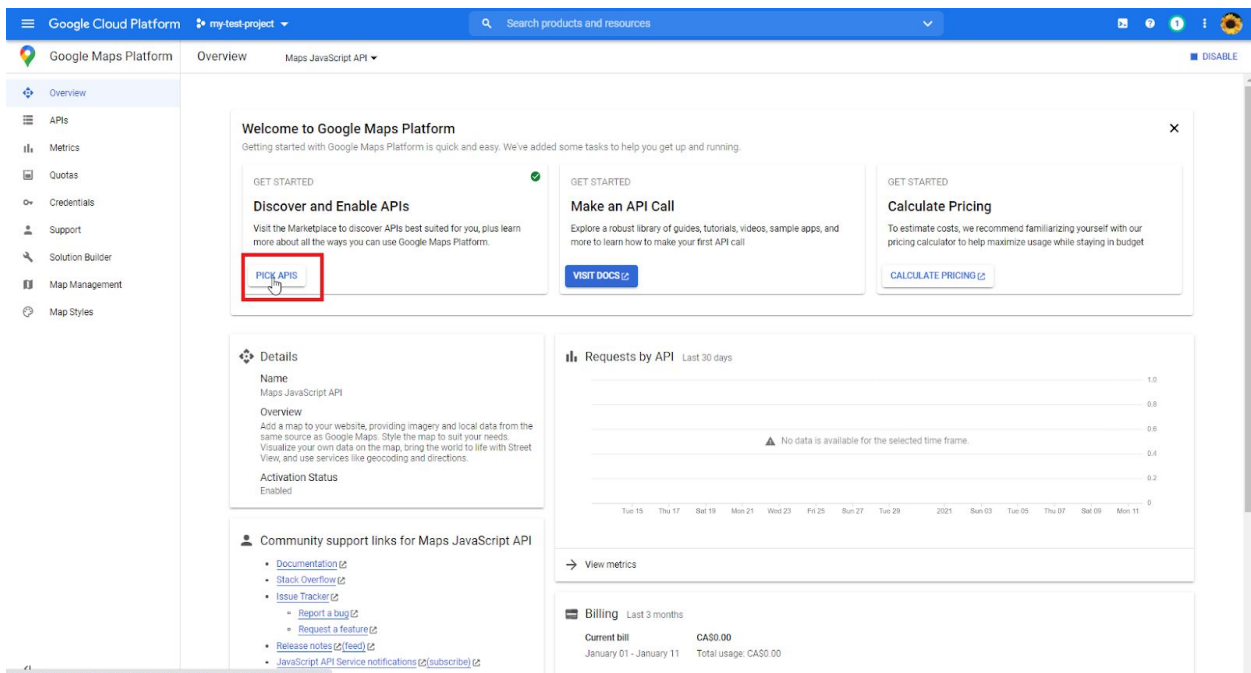
No data is available for the selected time frame.

Not seeing what you need? Give feedback

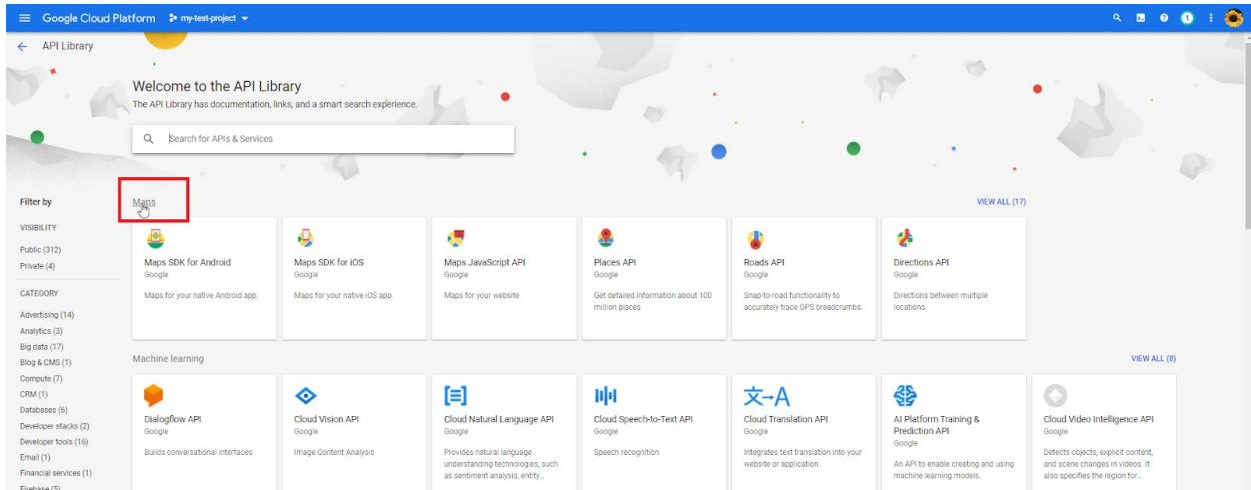
To get back to the page with all of the APIs, click on “Overview”.



Then from there, click on “Pick APIs”



And then from there, click on “Maps” and you will be brought back to the original page with all the APIs.



Please enable the following APIs:

- Geocoding API
- Maps JavaScript API
- Distance Matrix API
- Geolocation API
- Maps Embedded API
- Places API

While we will probably only end up using 2-3 of these APIs, figuring out what Maps features work for this project will take a little bit of trial and error.

All of these APIs can be disabled at any point and there is no charge in enabling the API. Only once we make requests with these APIs will we be charged.

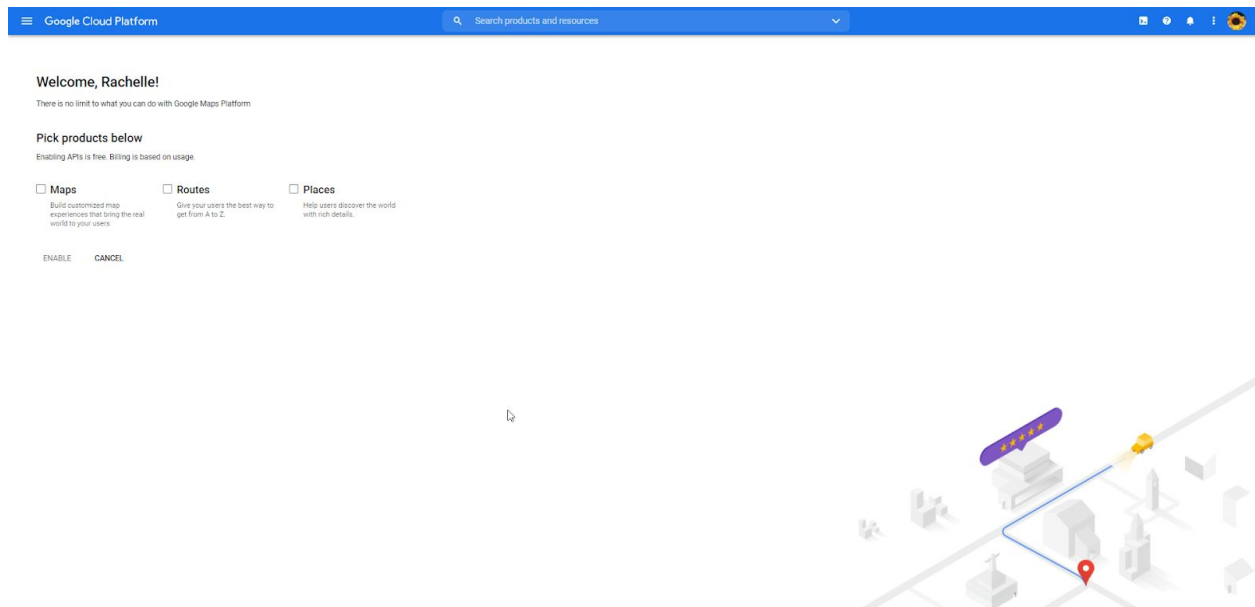
Step 5 - Get an API Key

In this step, we are going to make two API keys. API keys are used to link our website to the project that we made in step 2 that has all the APIs we enabled (step 4) to help us with all map related functionality.

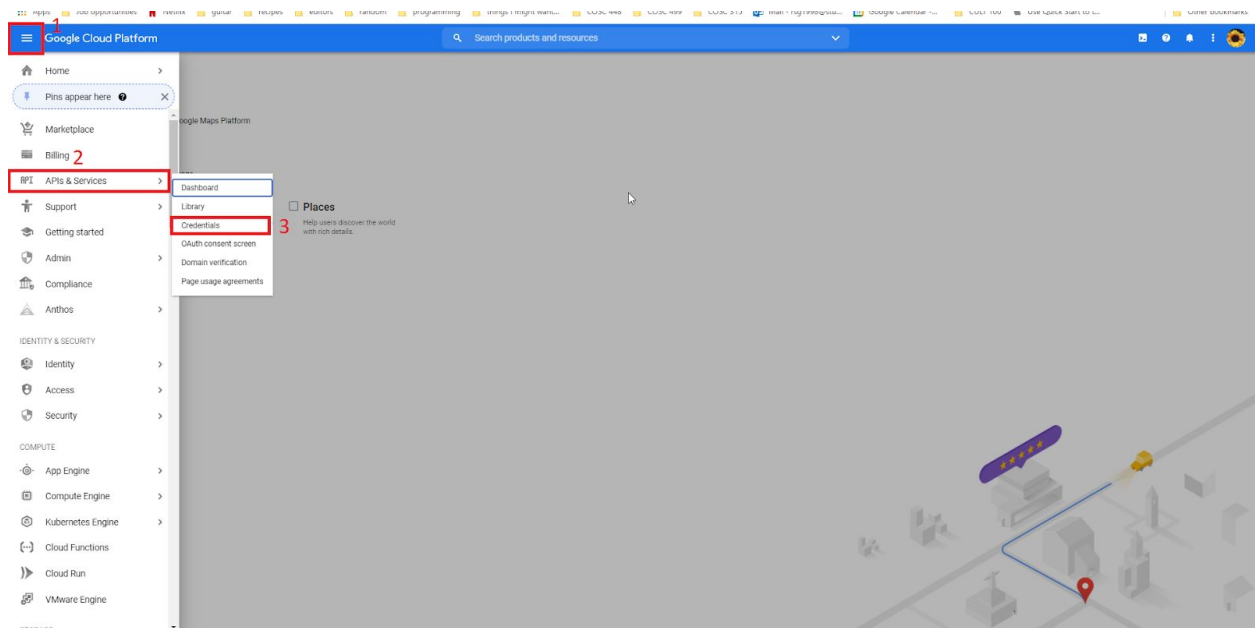
The first API key is going to be what we use for our local development (only on our computers). This key won't have any restrictions because it will never be publicly visible.

The second API key is going to be what we use for the live version of the site that we have hosted on a server in order to make remote testing easier. We will add restrictions to this key so that no one can use the key other than through our website.

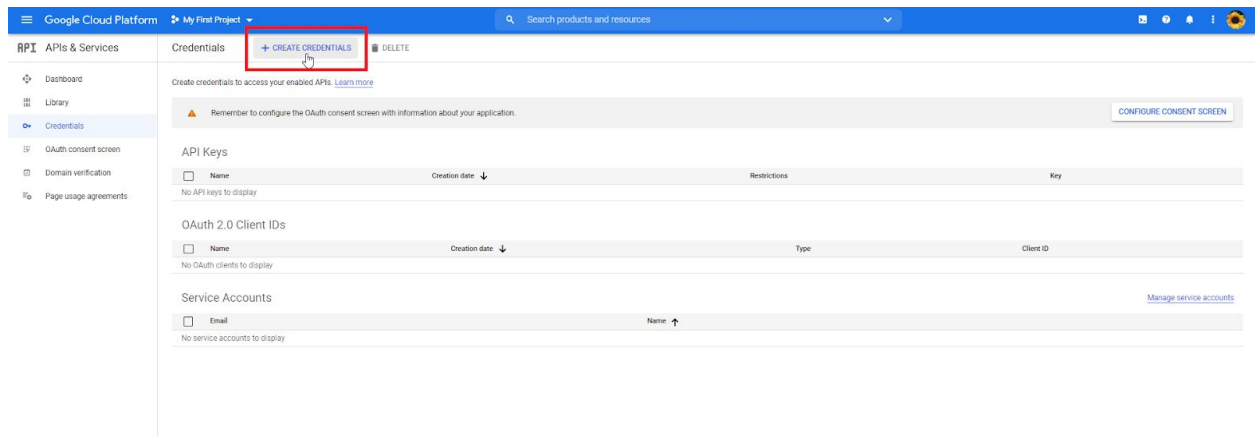
Firstly, go back to the tab with the following page.



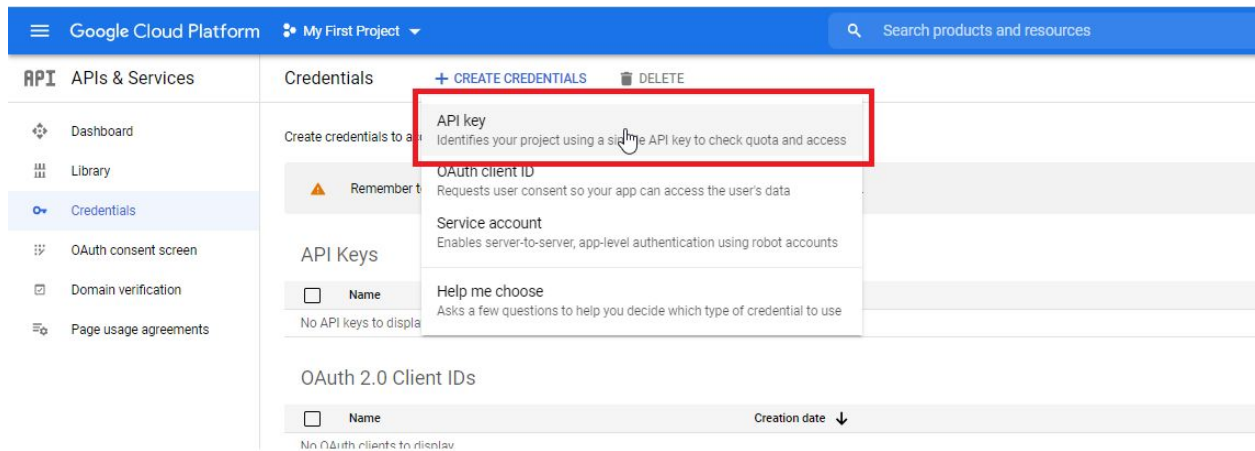
From here, click on the icon to the right of “Google Cloud Platform” to open the menu. From here click on “APIs & Services” then “Credentials”.



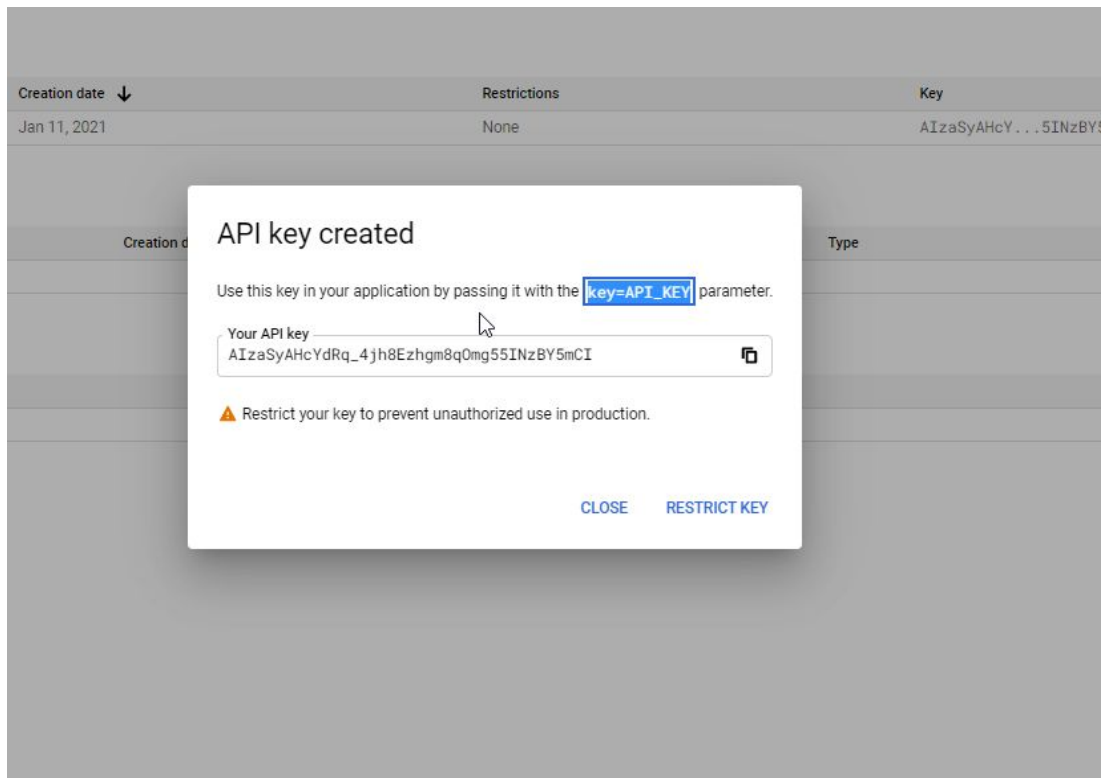
You will be brought to the following page. To make the first API key, click on “Create Credentials”



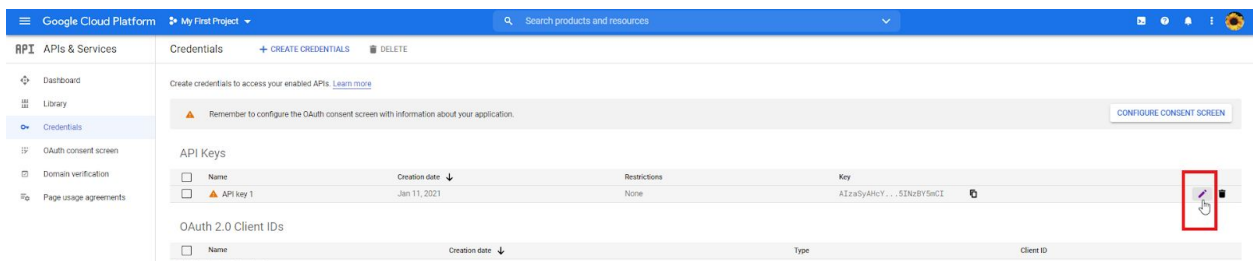
After clicking on “Create Credentials” select the “API key” option.



The following screen will popup, click “Close”.



Now that the key is created, we are going to rename it so we can keep track of which key is used for development and which one is for the live website. You can do this by clicking on the pencil icon on the key you just created.



You can name this key “Development” then click “Save”.

Google Cloud Platform My First Project Search products and resources

API APIs & Services

Dashboard Library Credentials OAuth consent screen Domain verification Page usage agreements

Restrict and rename API key REGENERATE KEY DELETE

Name *
Development

API Key
AIzaSyAHCydrQ_4jh8Ezhgm8q0mg55INzBY5mCI

Use this key in your application by passing it with `key=API_KEY` parameter.

Creation date January 11, 2021 at 7:04:12 PM GMT-8
Created by rachel.gelden@gmail.com (you)

Key restrictions

This key is unrestricted. Restrictions help prevent unauthorized use and quota theft. [Learn more](#)

Application restrictions

An application restriction controls which websites, IP addresses, or applications can use your API key. You can set one application restriction per key.

☒ None
☐ HTTP referers (web sites)
☐ IP addresses (web servers, cron jobs, etc.)
☐ Android apps
☐ iOS apps

API restrictions

API restrictions specify the enabled APIs that this key can call

☒ Don't restrict key
This key can call any API
☐ Restrict key

Note: It may take up to 5 minutes for settings to take effect

SAVE CANCEL

Now, create another API key by repeating the steps above, but this time, click on “Restrict Key”

Creation date ↓ Restrictions Key

Jan 11, 2021	None	AIzaSyAHCydrQ_4jh8Ezhgm8q0mg55INzBY5mCI
Jan 11, 2021	None	AIzaSyDN10otiVNXGavJZirZVDjuvIHmjeXJfxo

API key created

Use this key in your application by passing it with the `key=API_KEY` parameter.

Your API key
AIzaSyDN10otiVNXGavJZirZVDjuvIHmjeXJfxo

⚠ Restrict your key to prevent unauthorized use in production.

CLOSE RESTRICT KEY

You will be brought to the following screen. Name the key “Production” and under Application restrictions select “HTTP referrers (web sites)”.

APIs & Services

Dashboard

Library

Credentials

OAuth consent screen

Domain verification

Page usage agreements

Restrict and rename API key

REGENERATE KEY

DELETE

Name *

Production

Key restrictions

This key is unrestricted. Restrictions help prevent unauthorized use and quota theft. [Learn more](#)

Application restrictions

An application restriction controls which websites, IP addresses, or applications can use your API key. You can set one application restriction per key.

None

HTTP referrers (web sites)

IP addresses (web servers, cron jobs, etc.)

Android apps

iOS apps

Website restrictions

Restrict key usage requests to the specified websites.

If left blank, your API key will accept requests from any website.

ADD AN ITEM

API Key

AIzaSyDN18ot1VNXGavJZ1rZVDjuvIHmjeXJfxo

Use this key in your application by passing it with `key=API_KEY` parameter.

Creation date

January 11, 2021 at 7:22:20 PM GMT-8

Created by

rachelle.gelden@gmail.com (you)

How do I restrict my API key to specific websites?

Use an HTTP referrer to restrict the URLs that can use an API key. [Learn more](#)

Here are some examples of URLs that you can allow to set up a referrer:

- A specific URL with an exact path: `www.example.com/path`
- Any URL in a single domain with no subdomains, using a wildcard asterisk (*): `example.com/*`
- Any URL in a single subdomain, using a wildcard asterisk (*): `sub.example.com/*`
- Any subdomain or path URLs in a single domain, using wildcard asterisks (*): `*.example.com/*`
- A URL with a non-standard port: `www.example.com:8000/*`

Note: query parameters and fragments are not currently supported; they will be ignored if you include them in an HTTP referrer.


15

Next, in the textbox under “New Item” add the following URL - home-together-canada.herokuapp.com/* then click “Done”

- ☐ None
- ☒ HTTP referrers (web sites)
- ☐ IP addresses (web servers, cron jobs, etc.)
- ☐ Android apps
- ☐ iOS apps

Website restrictions

Restrict key usage requests to the specified websites.

 If left blank, your API key will accept requests from any website.

New item

Referrer *

home-together-canada.herokuapp.com/*

CANCEL

DONE

ADD AN ITEM

1

2

API restrictions

API restrictions specify the enabled APIs that this key can call

- ☒ Don't restrict key
This key can call any API
- ☐ Restrict key

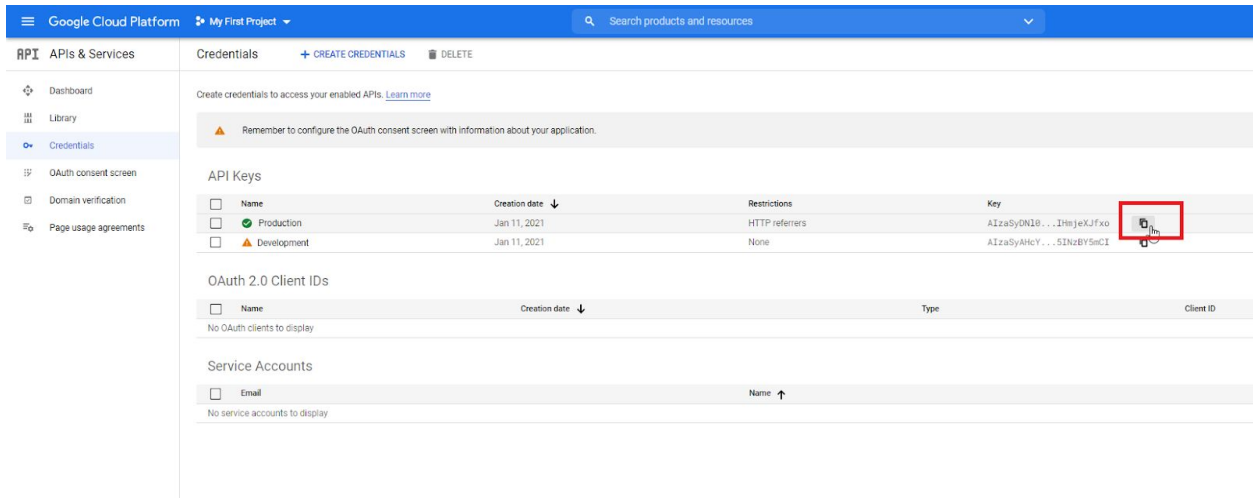
Note: It may take up to 5 minutes for settings to take effect

SAVE CANCEL



Lastly, click “Save” to save all the changes for the key.

Step 6 - Send us the API keys

Lastly, please send us the API keys and let us know which one is Development and which one is Production. You can copy the API keys using the following button.



The screenshot shows the Google Cloud Platform 'Credentials' page. The left sidebar contains navigation links: Dashboard, Library, Credentials (selected), OAuth consent screen, Domain verification, and Page usage agreements. The main content area is titled 'Credentials' and includes a '+ CREATE CREDENTIALS' button and a 'DELETE' button. Below this, there is a message: 'Create credentials to access your enabled APIs. [Learn more](#)'. A warning icon and text state: 'Remember to configure the OAuth consent screen with information about your application.' The 'API Keys' section displays a table with two keys:

<input type="checkbox"/>	Name	Creation date ↓	Restrictions	Key	
<input type="checkbox"/>	Production	Jan 11, 2021	HTTP referrers	AIzaSyDN18...1HhjeXJfxu	
<input type="checkbox"/>	Development	Jan 11, 2021	None	AIzaSyAHcY...5INzBY5mCI	

Below the 'API Keys' section is the 'OAuth 2.0 Client IDs' section, which shows 'No OAuth clients to display'. The 'Service Accounts' section shows 'No service accounts to display'.