



I n t e r a   E s c h

# How to had a Google API KEY

INTERA-ESCH

University Of Luxembourg – Group 2 | Software Engineering Project | Years 2020/2021

To use the API's google, therefore Google's libraries, you must have an account. A Google Cloud Platform account.

First: Go to this link:

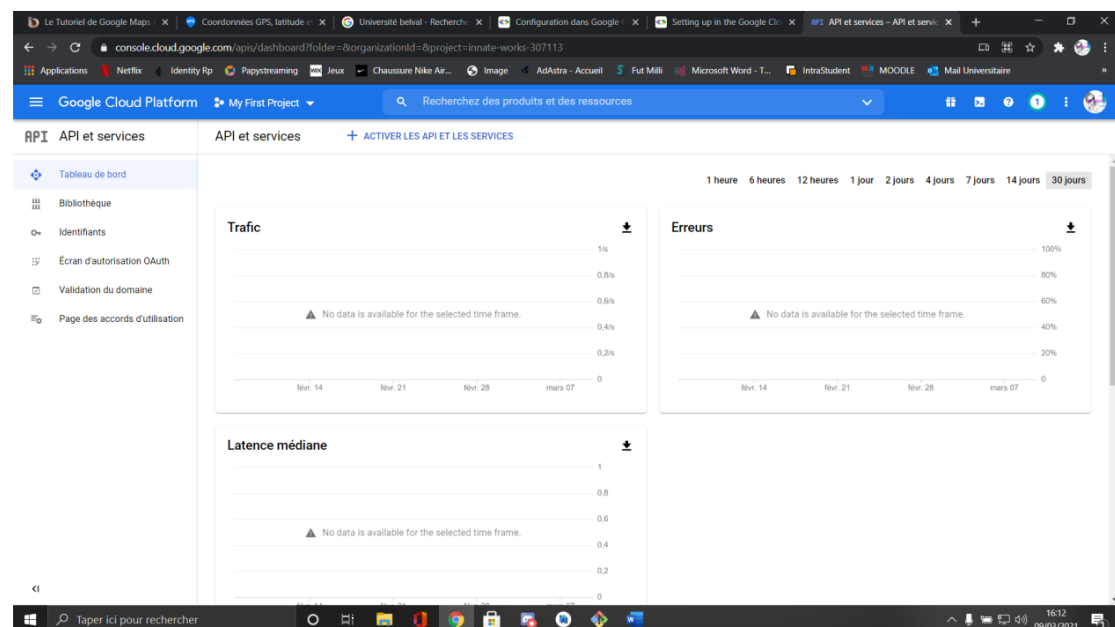
<https://console.cloud.google.com/projectcreate? ga=2.65203502.1287492888.1615215299-1355661963.1611506144>

This link will direct you to the very beginning, create a new project. Choose the name you wanted for your project. And create the.

Normally, if you have a Google account, it will be linked automatically.

<https://console.cloud.google.com/apis/dashboard?folder=&organizationId=&project=inmate-works-307113>

On this link you will be in a dashboard.



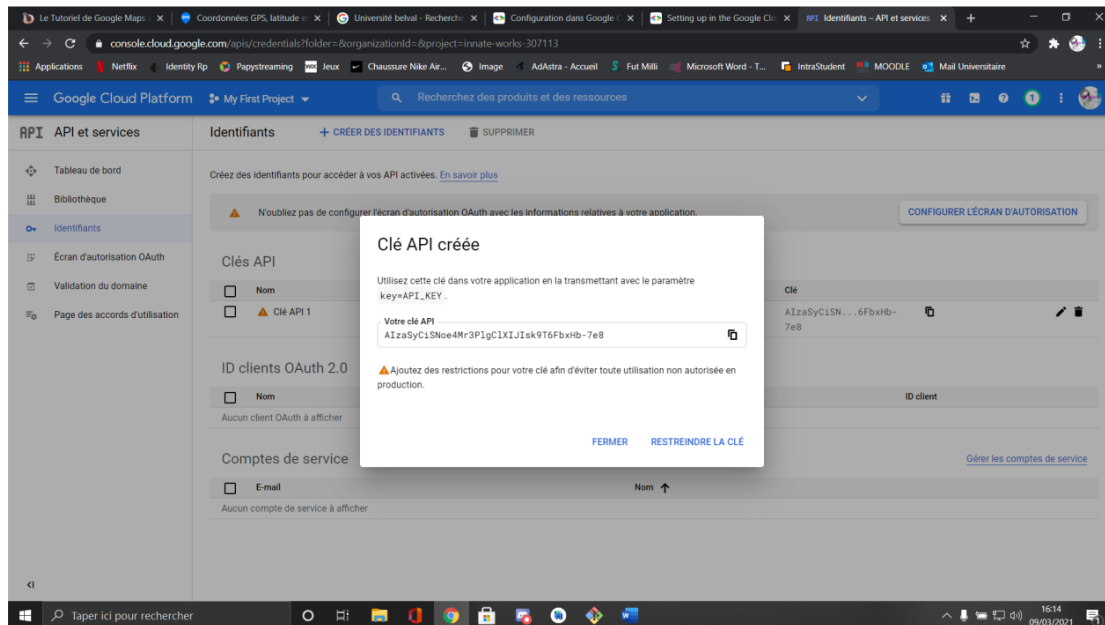
Here we'll be creating what they call an "API key".

An "API" key is a long key that looks like this: Apodeojd12sz2dz32de.

It allows us to link our Google Cloud Platform account to our Android project. With a line of code: API key = "Your key". And it will allow you to link your account to your application to give you the necessary rights (not everyone can use Google libraries without authorization!)

Once in this dashboard, click on "Identifiers" in the left menu.

Then click on "+ Create identifiers" Then on API key ...

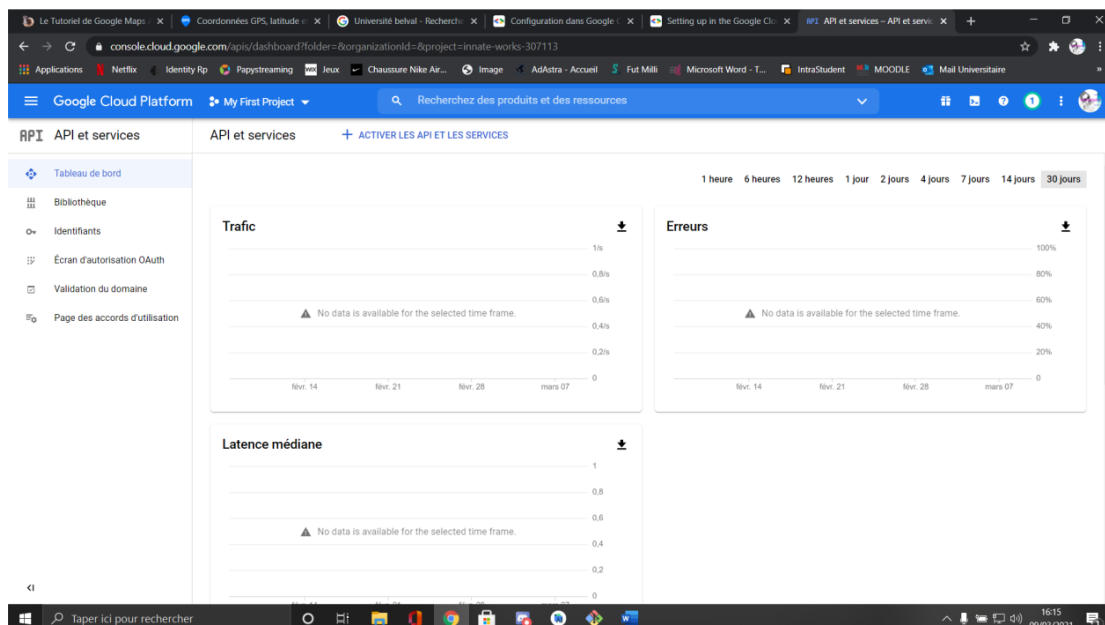


And here is the API key created.

You can copy it and put it in a notepad. Anyway, it will be available (we see in the photo behind, "API key 1", the image hides it from us, but it is indeed noted just after).

Now you have an API key! But that's not enough ...

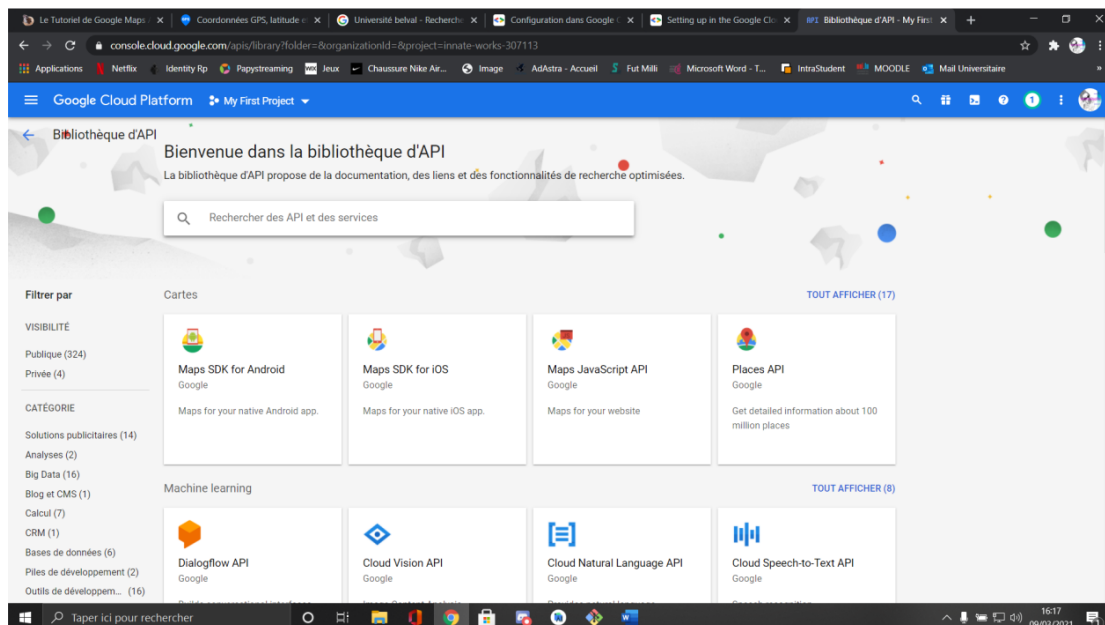
Return to the dashboard by clicking on the assign button for it on the left menu.



Once in this menu, click on + Activate API's and services.

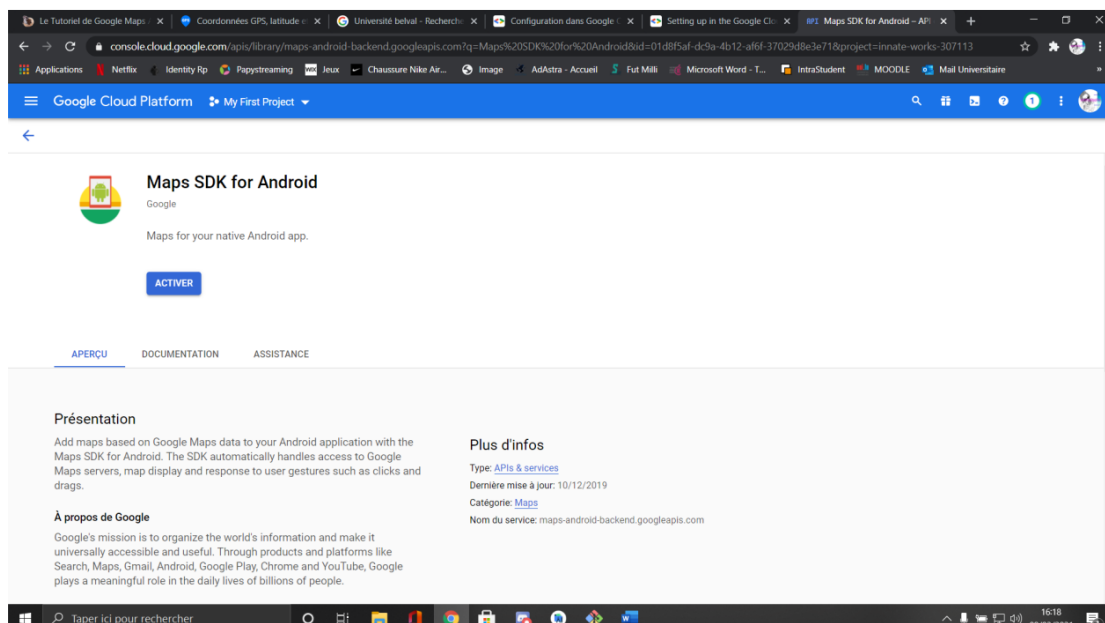
We end up in a huge API library.

In fact, that's why we have to "add" them to our 1 by 1 count. If they were all added at once, it could saturate some computers.

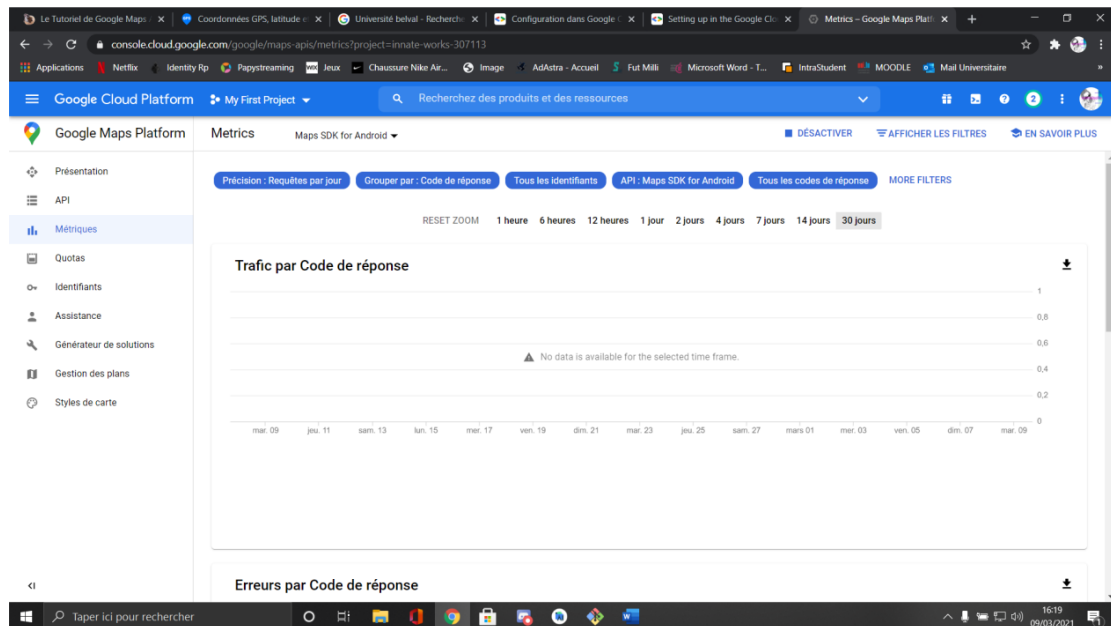


In the search bar, type (or copy / paste): "Maps SDK for Android"

Then click on Maps SDK For Android, and you will normally arrive on this page:



Click on Activate ... It will take a little while, and redirect us to this page:



To verify that the API on your account is indeed activated, click on API in the left menu. And at the top, you see directly: APIs activated: Maps SDK For Android.

The screenshot shows the Google Cloud Platform console with the 'API' page selected. The left sidebar contains a menu with options: Présentation, API (selected), Métriques, Quotas, Identifiants, Assistance, Générateur de solutions, Gestion des plans, and Styles de carte. The main content area displays the 'API activées' (Activated APIs) section, which shows a table of activated APIs. The table has columns for 'API', 'Demandes' (Requests), 'Erreurs' (Errors), and 'Latence moyenne (ms)' (Average latency). The only API listed is 'Maps SDK for Android' with 0 requests and 0 errors. Below this, there is a section for 'API supplémentaires' (Supplementary APIs) which lists various APIs available for activation, including Directions API, Distance Matrix API, Maps Elevation API, Maps Embed API, Geocoding API, Geolocation API, Maps JavaScript API, Roads API, Maps SDK for iOS, and Time Zone API.

API	Demandes	Erreurs	Latence moyenne (ms)
Maps SDK for Android	0	0	-

Small important precion:

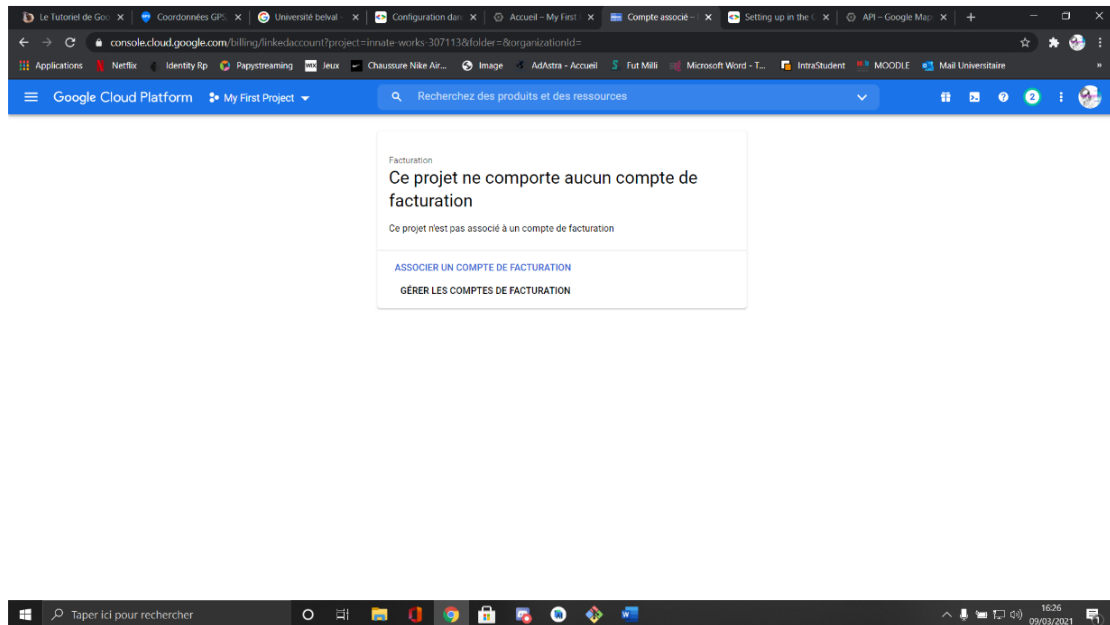
At the time of writing this tutorial, Google has put restrictions on these libraries. Seeing certain companies using these libraries for commercial purposes (eg Google Maps for a real estate agency and these buildings), Google decided to set up a system which made all X visitors to the application / site ... A sum would be taxed. Fortunately for us, we are only students and we will probably not reach the number of visitors required to be deducted (especially since we will not receive any profit!)

However, it still required us to insert bank details in case of Google.

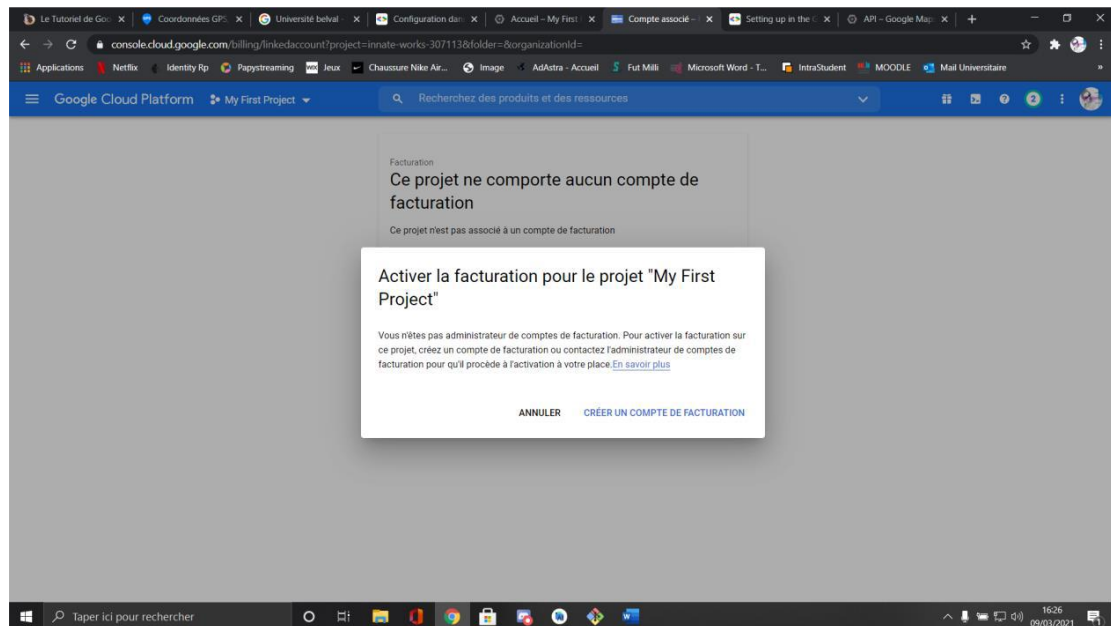
If you are interested go to this link:

<https://console.cloud.google.com/projectselector2/billing>

Choose your project:



Click on Associate a billing account.



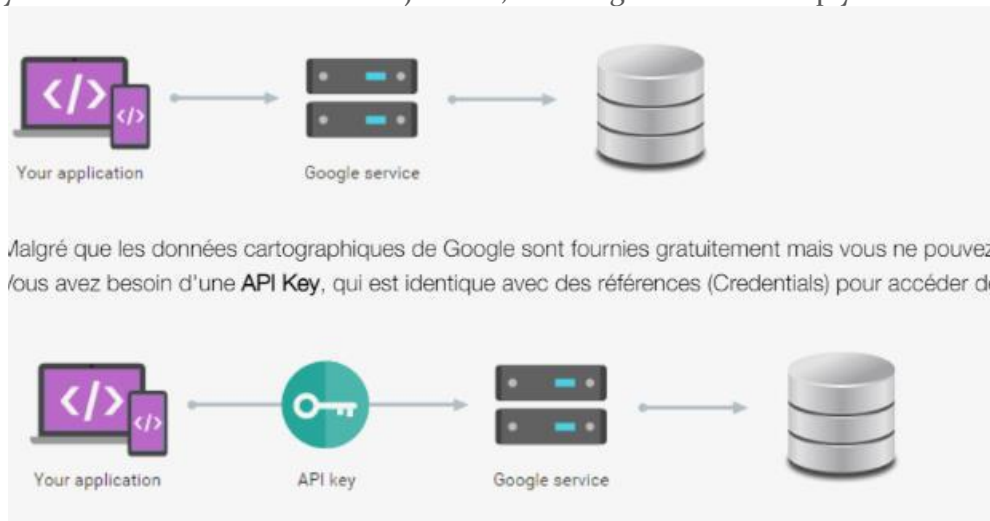
Click on "create a billing account" then follow the instructions that click on "Start free trial" :

Les informations personnelles que vous fournissez sur cette page seront ajoutées à votre profil de paiement. Elles seront également stockées de manière sécurisée et traitées conformément aux [Règles de confidentialité Google](#).

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If you didn't understand what we just did, this diagram should help you understand:



**Thanks for following this tutorial!**