

How to Acquire a Google Maps API Key

Google are changing the terms of access to their Google Maps APIs. This effects the usage of Irricad's *Import From Google Earth* function. From **11th June 2018** access to the APIs will only be allowed if you have an API key **and** that key is associated with a billing account. Please find below instructions detailing how to acquire an API key and how to enable billing and budgeting for that key.

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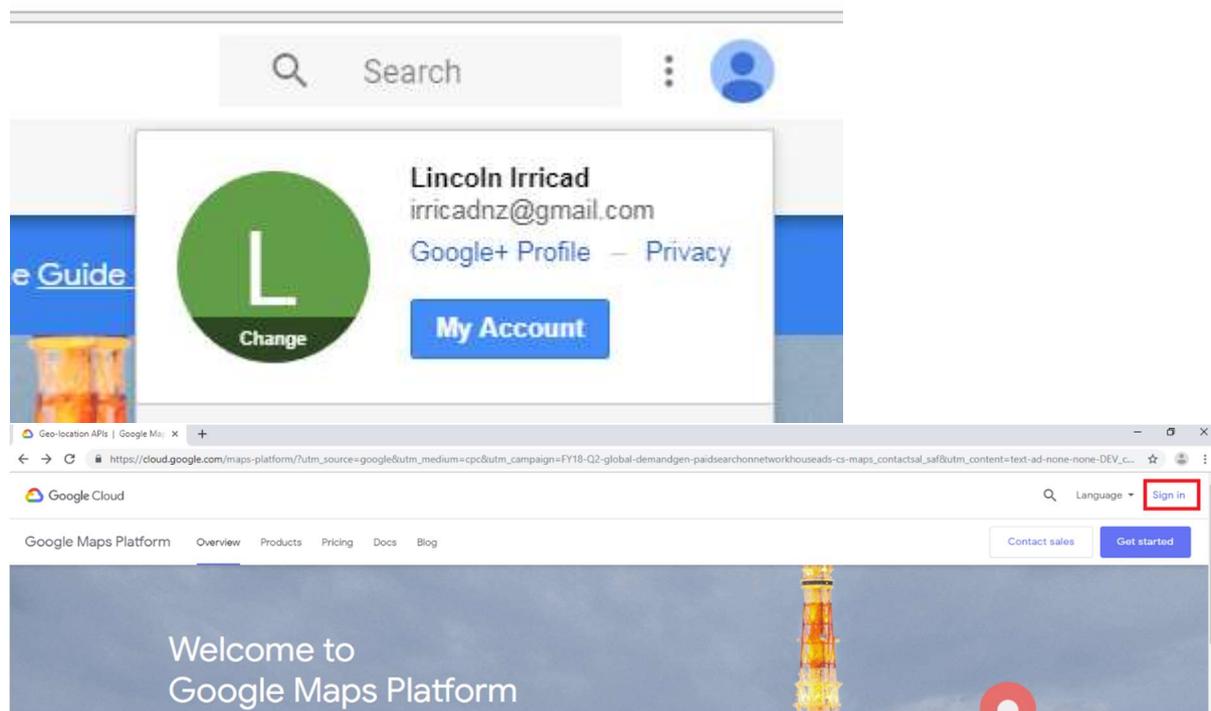
[Setting a Budget](#)

[Enable Billing For An Existing Key](#)

Getting an API Key

1). Visit [Google Maps Cloud Platform](#)

2). Ensure you are signed in to the correct account, by clicking the icon at the top-right or clicking "Sign In":



3). Click the "Get Started" button on the right-hand side.

4). You will then be redirected to the Google Cloud Console page, and prompted to enable billing. Note that in providing your credit card details you are automatically eligible for a \$200 per month credit. Keeping an API key in-house or only shared

between a few people should mean that you will not exceed this, however see further below for the instructions on setting a budget.

Click “Create Billing Account” and set up your billing profile, including your name, address and credit card details:

Enable billing for project “My First Project”

You are not an administrator of any billing accounts. To enable billing on this project, create a new billing account or contact your billing account administrator to enable billing for you. [Learn more](#)

CANCEL CREATE BILLING ACCOUNT



Then click “Start My Free Trial”.

5). An API key will now be generated for you.

Get Started on Google Maps Platform

You’re all set to develop! Here’s the API key you would need for your implementation. API key can be referenced in the Credentials section.

Your API Key

Your API Key 

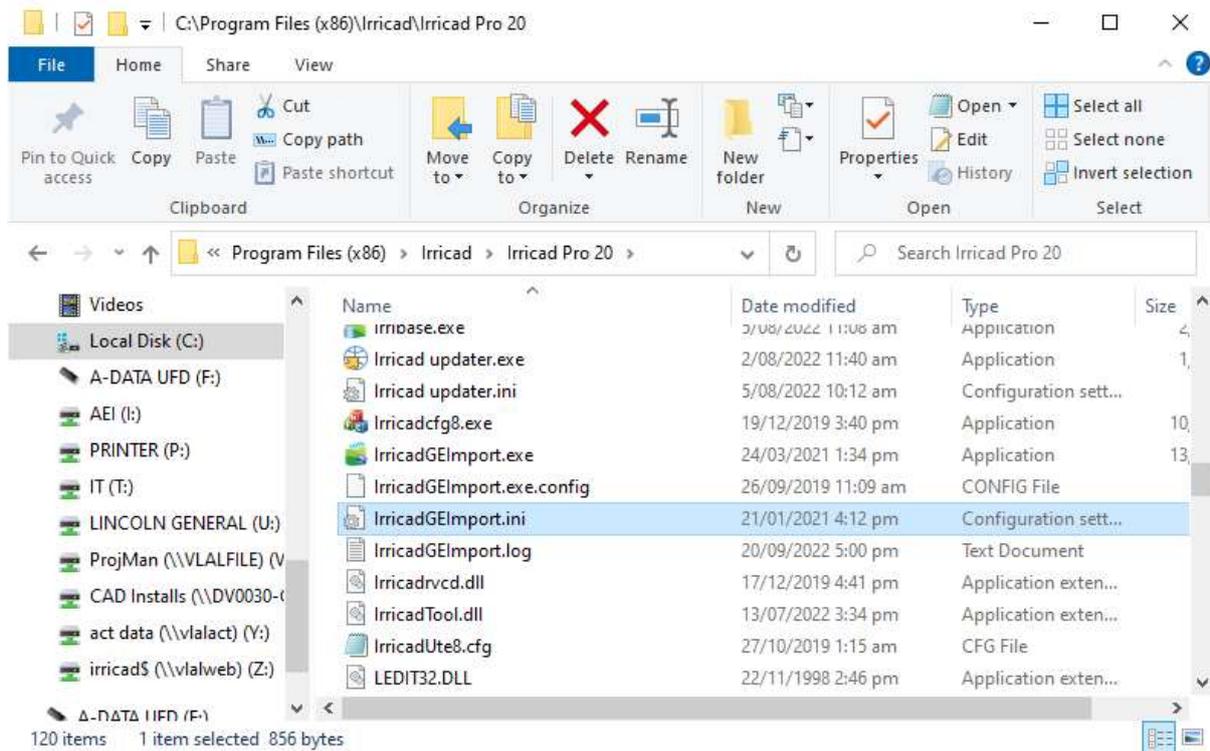
Enable all Google Maps APIs for this project 

Create budget alerts to help me stay on top of my spending and notify me when I am about to exceed the \$200 monthly Google Maps credit 

GO TO GOOGLE MAPS PLATFORM

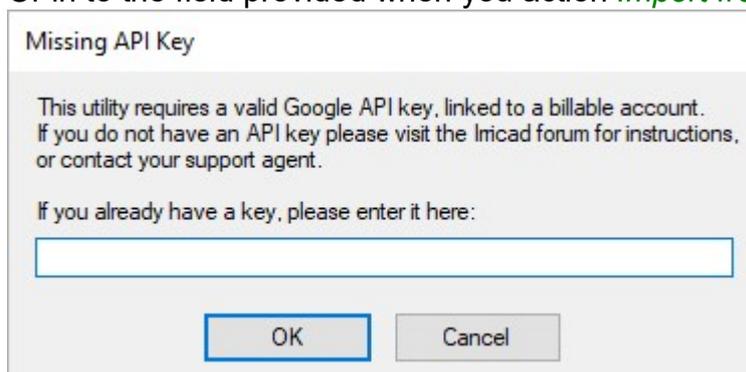
Make sure that the two options are enabled, for streamlining this process.

Save this API Key either into your IrricadGelImport.ini file where it asks for the “GMApiKey”.



```
File Edit Format View Help
[Options]
ExportImage=1
RectifyImage=1
ExportElevations=1
NumElevations=10
GridSizes=Auto;10;25;50;100
ShowHelpOnStartup=0
LockSelectionRatio=0
AutoZoom=1
AutoZoomScaleFactor=1050.0
MaxElevations=10000
MaxElevationsPerRequest=512
ElevationStep=10
ElevationDelay=1200
FailedElevationDelay=2000
MaxElevationRetries=5
ElevationWarning=1
ImageLoadDelay=1000
ReportRes=0
BaseAddress=
GMApiKey=AIz
DpiScale=
ProxyServer=
ProxyPort=0
ProxyUser=
ProxyPass=
Language=
Debug=0
NoProxySearch=0
ImageSize=0
0ImageWidth=1
0ImageHeight=1
```

Or in to the field provided when you action *Import from Google Earth*:-



It is a good idea to keep a backup of your API key. One way to do this is to copy the modified ini file into another place, such as the parent Irricad folder for example.

6.) Now go back to the Google Cloud and click on the “Go to Google Maps Platform” button.

A message will pop up to protect the key

Protect your API key

In order to protect your account from unwanted malicious usage, we recommend restricting your Google Maps Platform API key.

Select restriction type 

MAYBE LATER **RESTRICT KEY**

Protect your API key

In order to protect your account from unwanted malicious usage, we recommend restricting your Google Maps Platform API key.

Select restriction type
API restriction 

Limit usage to one or more Maps APIs

Filter Type to filter

- Geolocation API
- Maps JavaScript API
- Roads API
- Maps SDK for iOS
- Time Zone API
- Places API
- Maps Static API 
- Street View Static API

Click OK and then click “Restrict Key”

Protect your API key

In order to protect your account from unwanted malicious usage, we recommend restricting your Google Maps Platform API key.

Select restriction type
API restriction

Limit usage to one or more Maps APIs
4 APIs

MAYBE LATER

RESTRICT KEY

7). Now click on Credentials on the left-hand-side menu. You should see a green check-mark against your API key.

The screenshot shows the Google Cloud console interface for the 'Credentials' page. The left-hand-side menu is visible, with 'Credentials' selected. The main content area shows a table of API Keys. The first row, 'Maps API Key', has a green checkmark in the 'API key restricted' column. Below the table, there are sections for 'OAuth 2.0 Client IDs' and 'Service Accounts', both showing 'No ... to display'.

API key restricted	Creation date	Restrictions	Actions
<input checked="" type="checkbox"/>	Sep 19, 2022	4 APIs	SHOW KEY

Name	Creation date	Type	Client ID	Actions
No OAuth clients to display				

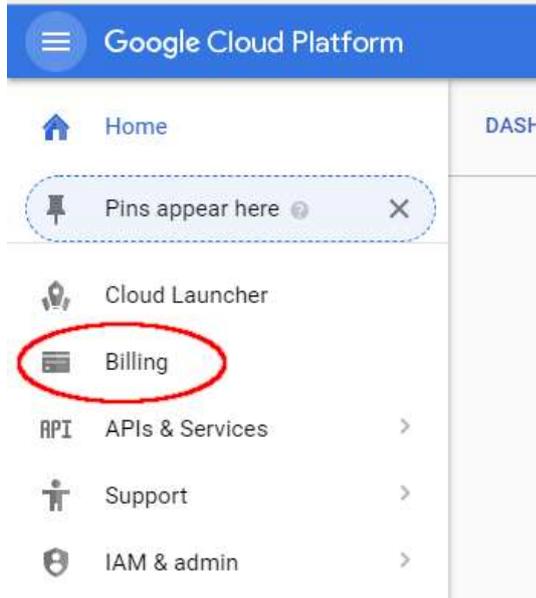
Email	Name	Actions
No service accounts to display		

8). Now *Import From Google Earth* is ready to use.

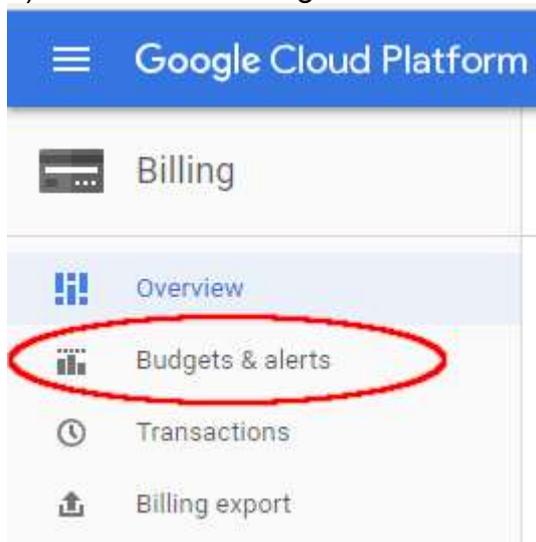
Setting a Budget

You may wish to limit the amount of money that can be automatically billed against your API key, and to set e-mail reminders when you are approaching that limit.

1). From the Google Cloud Console homepage, select “Billing” from the menu:-



2). Then select “Budgets & alerts”:



3). Create a budget that fits your requirements. Below the budget amount has been set to Google’s \$200 ‘free’ monthly usage allowance:

Maps API console x Budgets & alerts - Billing - Iricad x Google Cloud Platform x +

Free trial status: \$448.88 credit and 365 days remaining - with a full account, you'll get unlimited access to all of Google Cloud Platform. DISMISS ACTIVATE

Google Cloud Platform

Billing Budgets & alerts My Billing Account CREATE BUDGET DELETE

Overview Reports Cost breakdown Commitments **Budgets & alerts** Billing export Transactions Payment settings Payment method

Billing

Budgets & alerts

Avoid surprises on your bill by creating budgets to monitor all your Google Cloud charges in one place. After you've set a budget, you can create budget alerts to email billing admins and users when charges exceed a certain amount.

CREATE BUDGET

Maps API console x Create Budget - Billing - Iricad x Home - Iricad GE Import U... x +

Free trial status: \$448.88 credit and 365 days remaining - with a full account, you'll get unlimited access to all of Google Cloud Platform. DISMISS ACTIVATE

Google Cloud Platform

← Create Budget

1 Scope — 2 Amount — 3 Actions

A budget enables you to track your actual spend against your planned spend.

Name*

A budget can be scoped to focus on a specific set of resources.

Projects

NEXT CANCEL

Maps API console x Create Budget - Billing - Iricad x Home - Iricad GE Import U... - C x | +

https://console.cloud.google.com/billing/01378f-5d57e6-4b85c2/budgets/create?project=irricad-ge-impor-1562294967189

Free trial status: \$448.88 credit and 365 days remaining - with a full account, you'll get unlimited access to all of Google Cloud Platform. DISMISS ACTIVATE

Google Cloud Platform

Billing

- Overview
- Reports
- Cost breakdown
- Commitments
- Budgets & alerts**
- Billing export
- Transactions
- Payment settings
- Payment method

Create Budget

1 Scope — 2 Amount — 3 Actions

Set a monthly budget amount. Budgets begin on the first of the month, and reset at the beginning of each month.

Budget type: Specified amount

A fixed amount that your spend will be compared against.

Target amount: \$ 200

Include credits in cost

Include credits in cost is the total cost minus any applicable credit. Credit may include usage discounts, promotions, or grants to use Google Cloud Platform.

NEXT CANCEL

Maps API console x Create Budget - Billing - Iricad x Home - Iricad GE Import U... - C x | +

https://console.cloud.google.com/billing/01378f-5d57e6-4b85c2/budgets/create?project=irricad-ge-impor-1562294967189

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Google Cloud Platform

Billing

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Create Budget

1 Scope — 2 Amount — 3 Actions

Set alert threshold rules

Send email alert notifications to billing admins and users after the actual or forecasted spend exceeds a percent of the budget or a specified amount. [Learn more](#)

Percent of budget	Amount	Trigger on
50 %	\$ 100	Actual
90 %	\$ 180	Actual
100 %	\$ 200	Actual

+ ADD THRESHOLD

Manage notifications

Use Pub/Sub notifications to programmatically receive spend updates about this budget.

Connect a Pub/Sub topic to this budget

Select a project and Pub/Sub topic. Anyone who can view this budget will also be able to view the project ID and the topic name.

FINISH CANCEL