

From time to time Google changes the way it does things, and old tutorials may not apply to some new procedures.

This is another tutorial which, in about 6 months, will probably be irrelevant.

But until then...

Login to your Google Developer Console

You need to know how to get at least this far.

Login to your Google Developer Console

Create a project, or select a project to obtain an API





Select 'API Manager' for your project

Click on 'Google Maps Android API'





Enable the API

Press the 'Enable' button

	Console.developers.google.com/apis/api/maps_android_backend/overview? C				
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API	API Manager	Overview			
•	Overview	Finable Press Button			
04	Credentials	Google Maps Android API			
		Add maps based on Google Maps data to your Android application with the Google Maps Android API. The API automatically handles access to Google Maps servers, map display and response to user gestures such as clicks and drags. Learn more			
		Using credentials with this API			
		Using an API key To use this API you need an API key. An API key identifies your project to check quotas and access. Go to the Credentials page to get an API key. You'll need a key for each platform, such as Web, Android, and iOS. Learn more			• ••
			Your application API key		Google service
48					



Enabled, but...

		Console.developers.google.com/apis/api/maps_android_backend/overviews/apis/apis/apis/maps_android_backend/overviews/apis/apis/apis/apis/apis/apis/apis/api	iew? C	0 1
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API	API Manager	Overview		
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0+	Credentials	Google Maps Android API This API is enabled, but you can't use it in your project until you create credentials. Click "Go to Credentials" to do this now (strongly recommended). Overview Usage Quotas Add maps based on Google Maps data to you Google Maps Android API. The API automatic We need to setup our credent	iials for the App	Go to Credentials
4 <u>11</u>		Maps servers, map display and response to us drags. Learn more Using credentials with this API Using an API key To use this API you need an API key. An API key identifies your project to check quotas and access. Go to the Credentials page to get an API key. You'll need a key for each platform, such as Web. Android. and IOS. Learn more		



Select your API Parameters

Select the type of API so that correct credentials can be determined

Press "What Credentials Do I Need" when complete.





Create Credentials - Ensure correct package name

Before we go too much further, I'd like to mention that if you don't like your package/app name, now is the time to change it. If you create credentials, and then try to change your app name, you'll have to come back, and do all of this over again. It's better to go ahead and change the name first.





Create a App 'Key' in your release keystore

The easiest way to do this, since I can't seem to find a keytool plugin for Android Studio, Is to create a signed release apk. It doesn't matter if it's your finished product or not; the key won't change, and that's where we need the information from.

ୟା Make Project Make Module 'guamflights-guamflights	Жг9 5′
Clean Project Rebuild Project	
Edit Build Types Edit Flavors Edit Libraries and Dependencies Select Build Variant	
Build APK	
Generate Signed APK	_
Deploy Module to App Engine	



Make sure you're in the right place

It sounds silly, but make sure you're creating the key for the right module. Depending on how complex your app is, sometimes it can come into question.





Create New Key

If you haven't created a key for the app, this is where you start. Press the 'Create New' button.

	Generate Signed APK	1
<u>K</u> ey store path:	;ers/SmugWimp/Dro	pbox/debug.keystore
	<u>C</u> reate new	C <u>h</u> oose existing
Key store <u>p</u> assword:		
K <u>e</u> y alias:	com.guamflights	
Key pass <u>w</u> ord:	•••••	
<mark>⊠ R</mark> ememb r passwo	ords	
Help Cancel		<u>P</u> revious <u>N</u> ext



Fill in the information

SmugWimp Tutorials

- Select the keystore. This is my debug keystore, although I said release earlier. You probably
 want to navigate and select your release keystore. When you select the proper keystore, enter
 and confirm the 'keystore' password. This is not the app key password. This is the 'master
 access' password for the keystore. By default, the debug keystore password is 'android'. "You"
 create your release keystore, so only you know what it is. And it should stay that way.
- 2. The details about your app key and alias. The alias can be anything, but keeping it pertinent is always wise. You need to create a password for the app key, and confirm it. Don't ever lose these passwords, or these keystores. Never ever ever. Set the validity to something outrageous.
- 3. Somewhat personal information for the certificate that needs to be created.
- 4. Once all that is done, press 'OK'.

New Key Store				1	
<u>K</u> ey store path:	/Users/S	mugWimp/Dro	pbox/debug.k	ceystore	
<u>P</u> assword:			Co <u>n</u> firm:	•••••	
Key					
<u>A</u> lias: com		yourappname			
Pa <u>s</u> sword: ••••		•••	<u>C</u> onfirm:	•••••	2
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Certificate—	Certificate				
<u>F</u> irst and Las	t Name:	Smug Wimp			
<u>O</u> rganization	<u>O</u> rganizational Unit:		pment		
Organization:		SmugWimp En	terprises LTD		3
City or <u>L</u> ocality:		Tamuning			
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Country Code (<u>X</u> X):		US			
				Cancel	ок (4)



A Quick Note about Keys and Signing...

Open up terminal, and navigate to the same directory as your keystore. From there, type the following command, substituting your correct values:

keytool -list -v -keystore your.release.keystore -alias com.yourAppName

Press 'enter' or 'return' or whatever. It should spout out some information about that particular key. Included in that information, is the 'SHA-1 fingerprint' which is what we want.





Add your SHA-1 Fingerprint, and press 'create api key'.

Your key will appear in the next section. Copy and paste this into the appropriate places in your app.

=	Google APIs				
API	Credentials				
¢	Add credentials to your project				
 Find out what kind of credentials you need Calling Google Maps Android API from Android Create an API key Created API key 'GuamAirportGuide' Get your credentials 					
	AIzaS (/8mb20wI Done Cancel				



Your API is finished

Now that you're done creating your API key, it's time to put it into your BT App.

API	Credentials				
¢	Credentials OAuth consent screen Domain verification				
0+	Create credentials - Delete				
	Create credentials to access your enabled APIs. Refer to the API documentation for details.				
	API keys				
	Name	Creation date ~	Туре	Кеу	
	GuamAirportGuide	Apr 29, 2016	Android	AlzaSyAWPmHYeo	



1) AndroidManifest

Add the key into your Android Manifest file





Make sure you're referencing the Google Play Services

Make sure that you're referencing the latest Google Play Services in both your Build.Gradle and your AndroidManifest





Add your Google API Key in your Android Manifest

Copy the Google Maps API key provided in your Google Developer Console. Paste in the appropriate location in your AndroidManifest file.

<pre><!-- Google Maps v2 API Key Replace "GOOGLE_MAPS_FOR_ANDROID_V2_API_KEY_GOES_HERE" on the next line with the Google Map See: https://developers.google.com/maps/documentation/android/start#installing_the_google_m</th--><th>s for Android API Key provid aps_android_v2_api</th></pre>	s for Android API Key provid aps_android_v2_api
<pre><meta-data <="" android:name="com.google.android.maps.v2.API_KEY" android:value="AIza" pre=""></meta-data></pre>	e#8" />



Remove the debug declaration. It gets annoying.

Remove the line:

android:debuggable="false"

Remember to keep the definition capped ">"





And that is the name of that game.

Provided good omens are upon us, Google Maps should appear in the whatever plugin. If it does not, CHECK THE LOGCAT. That is where the errors will tell you what didn't work, and possibly why. This is important information for troubleshooting, so don't forget.





Good Luck. Happy Appy.

Cheers. If you have questions, don't message me. Post it in the forums, so that all may benefit from your question or problem.