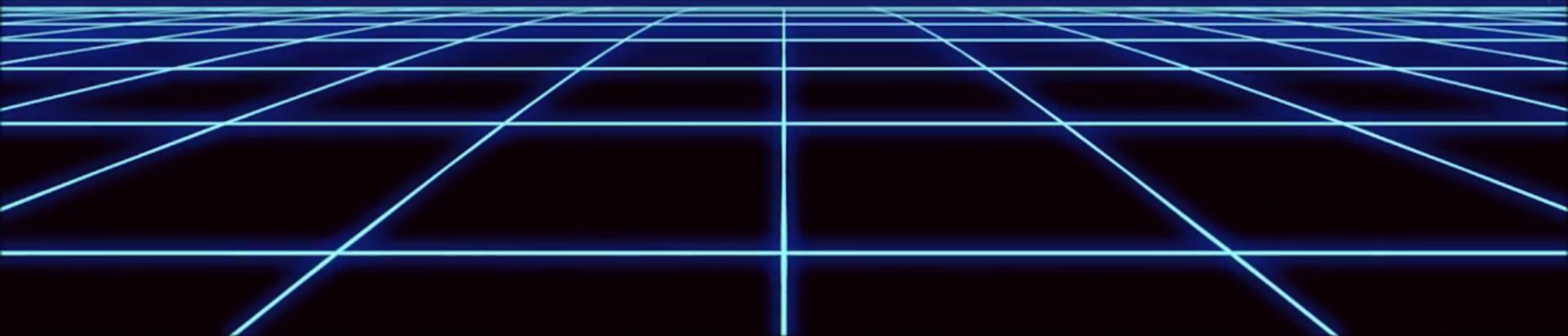


LOCALIZATION MOBILE IN FLUTTER

Un'alternativa a Google





federico-parezzan



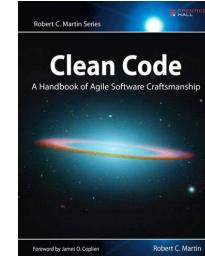
parez93

Federico Parezzan

➤ **Java backend developer**



Dialogflow



Homo sum, humani nihil a me alienum puto ~ Terenzio

Agenda

1. Intro
2. Location Kit
3. Environment preparations
4. Demo

INTRO

Why Huawei?

1. New market investment possibilities
2. New alternative app store
3. New OS (coming)
4. Alternative solution to Google

A little bit of history



More info: <https://www.xda-developers.com/google-revoke-huawei-android-ban-blacklist/>

A little bit of history



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A little bit of history



 **Android**  @Android · 20 mag 2019

For Huawei users' questions regarding our steps to comply w/ the recent US government actions: We assure you while we are complying with all US gov't requirements, services like Google Play & security from Google Play Protect will keep functioning on your existing Huawei device.

3.749 24.229 29.038

More info: <https://www.xda-developers.com/google-revoke-huawei-android-ban-blacklist/>

LOCATION KIT

What is Location Kit?

HUAWEI Location Kit assists developers in enabling their apps to get quick and accurate user locations and expand global positioning capabilities by using GPS, Wi-Fi, and base station locations.

<p>Fused location</p>  <p>GPS + Wi-Fi + Base Station</p>	<p>Geo-fencing</p>  <p>Enter, Exits, Linger</p>	<p>Activity Identification</p>  <p>Walking, Running, Cycling, Driving, Still</p>
--	--	--

Why choose Location Kit?



High success rate



Fast locating



Superb accuracy

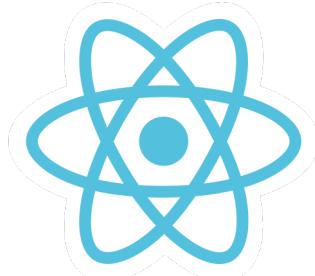


**Low power
consumption**

Version-dependent features

Platform-Dependent Feature (OS or Hardware)	Required EMUI Version (HUAWEI/HONOR Phones and Tablets)	Required Android Version (Non-Huawei Phones)
Fused locating	EMUI 5.0 or later	Android 7.0 or later
Geofence	EMUI 10.0 or later	Not supported
Activity identification	EMUI 9.1 or later	Not supported

Supported platforms



ENVIRONMENT PREPARATION

Preparations

1. Creating an App in AppGallery ConnectCreate an Android Studio project

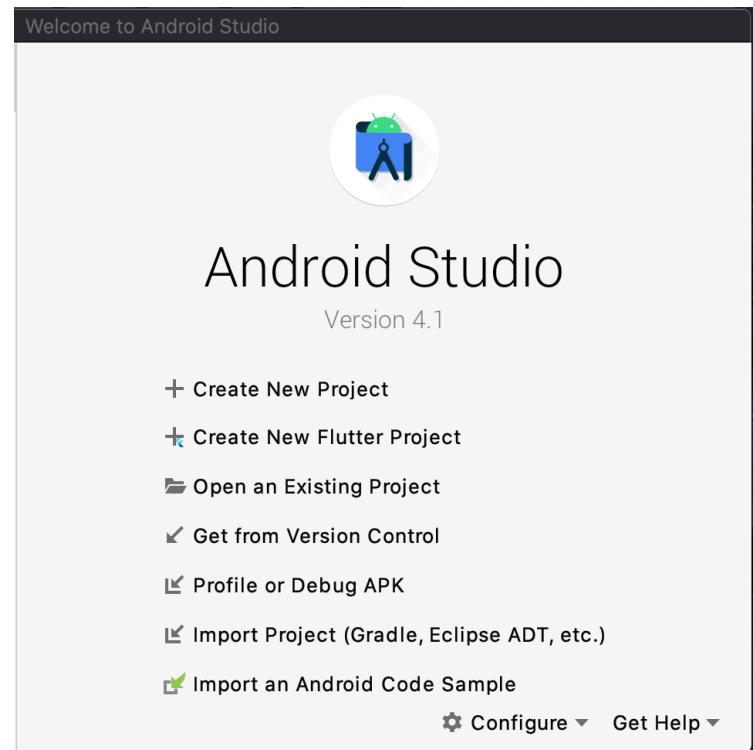


<https://developer.huawei.com/consumer>

The screenshot shows the 'Project Setting' section of the AppGallery Connect interface. On the left, there's a sidebar with categories like Earning, Growing, and Build. The main area has tabs for 'General information', 'Manage APIs', and 'My plan'. Under 'General information', it shows 'Developer information' with fields for Developer ID (redacted), Public key (redacted), and a file download link. It also shows 'Project' details with fields for Project name (HMS), Data storage location (Set), Client ID (redacted), and Client key (redacted). A red box highlights the 'App information' section at the bottom, which contains a download link for 'agconnect-services.json', package name (com.huawei.hmsdemo), App ID (redacted), API key (redacted), SHA-256 certificate fingerprint (redacted), and a 'Delete app' button.

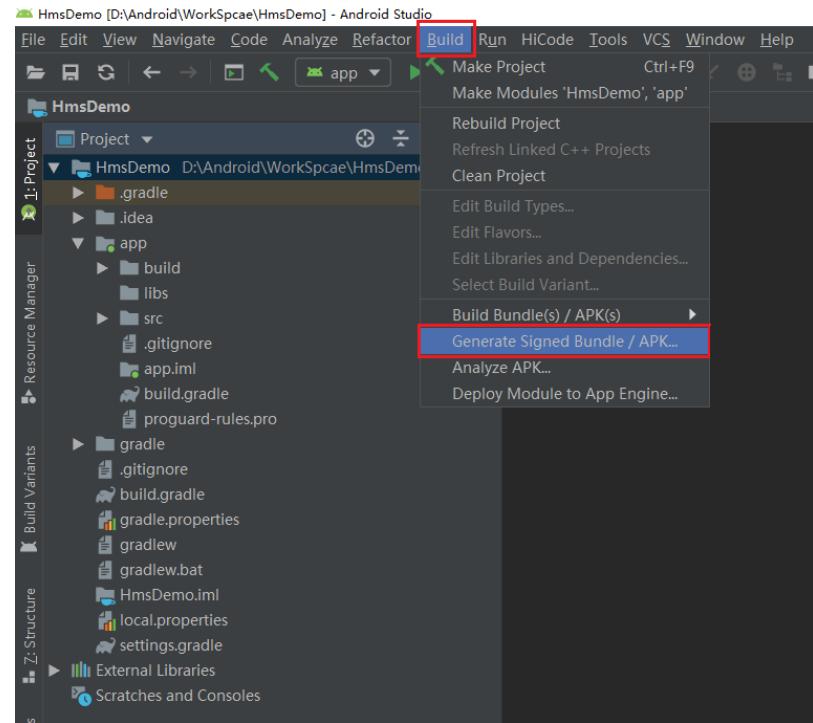
Preparations

2. Creating an Android Studio Project



Preparations

3. Generating a Signing Certificate



Preparations

4. Generating a Signing Certificate Fingerprint

```
C:\windows\system32\cmd.exe
D:\Android\Jdk\bin>keytool -list -v -keystore D:\Android\WorkSpace\HmsDemo\app\HmsDemo.jks
???????
?????: jks
???????: SUN
???????: 1 ???
?????: hmsdemo
?????: 2019-9-27
?????: PrivateKeyEntry
?????: 1
?????: CN=HUAWEI, OU=HUAWEI, O=HUAWEI, L=NanJing, ST=JiangSu, C=CN
?????: CN=HUAWEI, OU=HUAWEI, O=HUAWEI, L=NanJing, ST=JiangSu, C=CN
?????: 7048483b
?????: Fri Sep 27 14:40:08 CST 2019 ? Tue Sep 20 14:40:08 CST 2044
?????: MD5: B9:21:9A:3F:DB:5C:F2:F6:7F:77:F3:A8:6C:38:4F:D2
SHA1: 8D:D0:01:30:9B:B1:0E:54:A7:1C:3F:48:12:E7:81:8B:CD:57:24:22
SHA256: [REDACTED]
SHA256withRSA
?????: 2048 ? RSA ??
?: 3
??: 1
#1: ObjectId: 2.5.29.14 Criticality=false
SubjectKeyIdentifier [
KeyIdentifier [
0000: D0 F6 31 75 53 EA F6 89   90 CC 3F BF 5D 3B 51 3A   ..iu$.....?..1;Q:
0010: 0A H4 26 F4               ..&.
]
]

*****
*****Warning:*****
JKS ?????????????? "keytool -importkeystore -srckeystore D:\Android\WorkSpace\HmsDemo\app\HmsDemo.jks -destkeystore
D:\Android\WorkSpace\HmsDemo\app\HmsDemo.jks -deststoretype pkcs12" ???????? PKCS12?
```

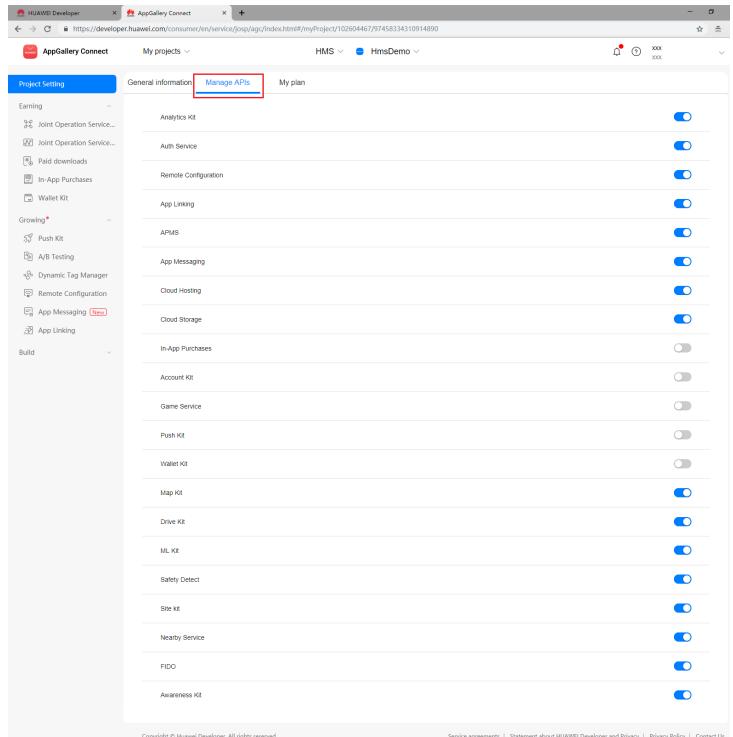
Preparations

5. Add fingerprint certificate to AppGallery Connect

The screenshot shows the 'Project Setting' page in the AppGallery Connect interface. On the left, there's a sidebar with categories like 'Earning', 'Growing', and 'Push Kit'. The main area is titled 'App information' and contains fields for 'Client ID', 'Client key', 'Package name', 'App ID', 'API key', and 'App key'. A prominent red box highlights the 'SHA-256 certificate fingerprint' field, which contains a long string of hex digits: `00:0F:40:E9:21:6A:CE:EB:0F:02:40:00:00:10:7E:10:BF:01:F0:E0:00:AF:00:07:FF:00:00:70:04:79:B0`. Below this field is a 'Delete app' button.

Preparations

6. Enabling the API Service on the AppGallery Connect

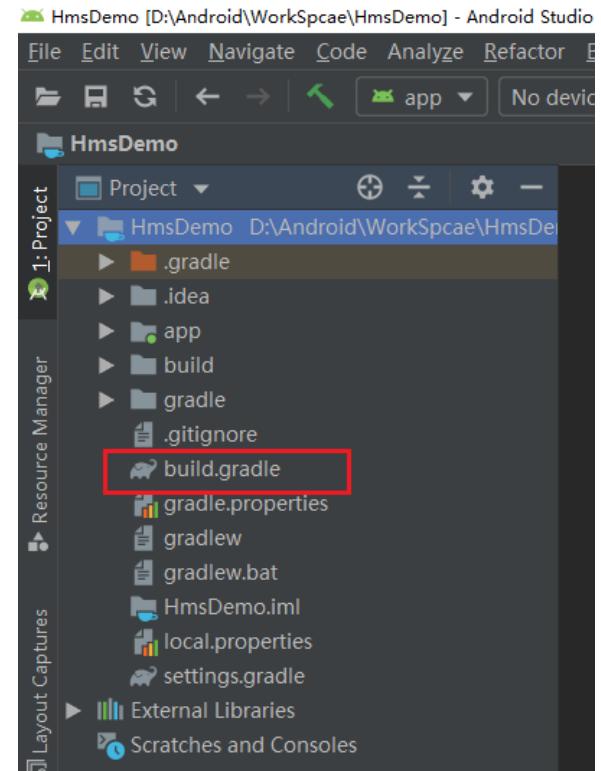


Preparations

7. Add Configuration

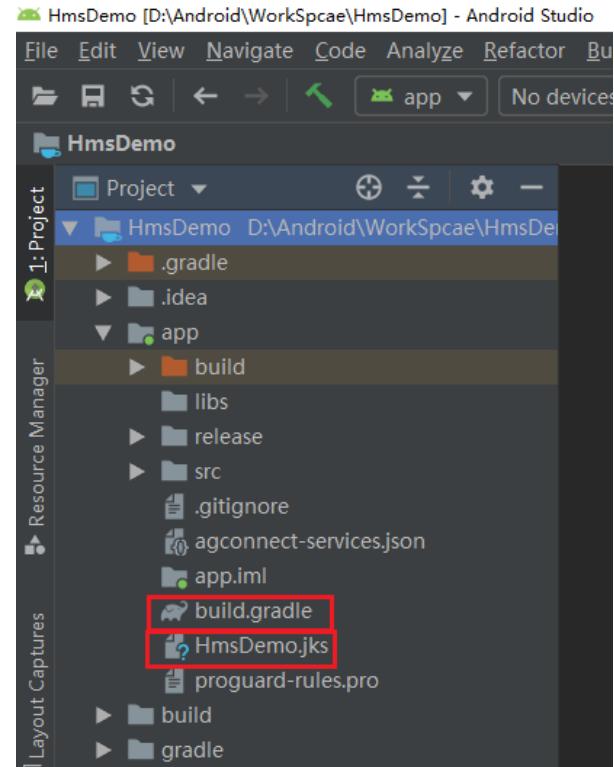
The screenshot shows the 'Project Setting' section of the HUAWEI Developer AppGallery Connect interface. The 'General information' tab is selected. Key details shown include:

- Developer information:** Developer ID (redacted), Public key (redacted).
- Project:** Project name: HMS, Data storage location: Set, Client ID (redacted), Client key (redacted).
- App information:** App connect-services.json (highlighted with a red box).



Preparations

8. Configure project signature



MORE INFO:

<https://developer.huawei.com/consumer/en/codelab/HMSPreparation/index.html#0>

DEMO

GRAZIE PER L'ATTENZIONE

LASCIAMI UN FEEDBACK!

bit.ly/2HDQdj7



SCAN ME

QUALCUNO HA DETTO

LOCHESCION?