**[how to sign arbitrary APK with platform key?](http://stackoverflow.com/questions/4247818/android-after-building-platform-source-how-to-sign-arbitrary-apk-with-platform)**

<http://stackoverflow.com/questions/4247818/android-after-building-platform-source-how-to-sign-arbitrary-apk-with-platform/4257367#4257367>

- create .pk8 + x509.pem files (Mr Matthew sent me , I don’t know how he made them)

- use command to make p12 file

openssl pkcs8 -inform DER -nocrypt -in **platform.pk8** | \ openssl pkcs12 -export -in **platform.x509.pem** -inkey /dev/stdin \ -name **platformkey** -password pass: -out *tmp.p12*

- make keystore file using command

keytool -importkeystore -deststorepass android -srckeystore *tmp.p12* \ -srcstoretype PKCS12 -srcstorepass '' -destkeystore **~/.android/debug.keystore**

can use password instead of empty string “”

- edit manifest file in android studio project

in <manifest> tag , add android:sharedUserId=”android.uid.system”

add permissions

<uses-permission android:name="android.permission.WRITE\_EXTERNAL\_STORAGE" />  
<uses-permission android:name="android.permission.READ\_EXTERNAL\_STORAGE"></uses-permission>  
<uses-permission android:name="android.permission.INTERNET"></uses-permission>  
<uses-permission android:name="android.permission.NFC"></uses-permission>  
<uses-permission android:name="android.permission.ACCESS\_WIFI\_STATE"></uses-permission>  
<uses-permission android:name="android.permission.CHANGE\_WIFI\_STATE"></uses-permission>  
<uses-permission android:name="android.permission.REBOOT" />  
<uses-permission android:name="android.permission.READ\_LOGS"/>  
<uses-permission android:name="android.permission.MOUNT\_UNMOUNT\_FILESYSTEMS" />  
<uses-permission android:name="android.permission.CHANGE\_COMPONENT\_ENABLED\_STATE" />  
<uses-permission android:name="android.permission.DELETE\_PACKAGES" />  
<uses-permission android:name="android.permission.INSTALL\_PACKAGES" />  
<uses-permission android:name="android.permission.REAL\_GET\_TASKS" />  
<uses-permission android:name="android.permission.KILL\_BACKGROUND\_PROCESSES" />  
<uses-permission android:name="android.permission.FORCE\_STOP\_PACKAGES" />

- make signed-apk using debug.keystore

android studio/build/generate signed\_apk