

# How to create a signed APK file using Cordova command line interface?

[stackoverflow.com/questions/26449512/how-to-create-a-signed-apk-file-using-cordova-command-line-interface](https://stackoverflow.com/questions/26449512/how-to-create-a-signed-apk-file-using-cordova-command-line-interface)



## Step 1:

```
D:\projects\Phonegap\Example> cordova plugin rm org.apache.cordova.console --save
```

add the `--save` so that it removes the plugin from the `config.xml` file.

## Step 2:

To generate a release build for Android, we first need to make a small change to the `AndroidManifest.xml` file found in `platforms/android`. Edit the file and change the line:

```
<application android:debuggable="true" android:hardwareAccelerated="true"
android:icon="@drawable/icon" android:label="@string/app_name">
```

and change `android:debuggable` to `false`:

```
<application android:debuggable="false" android:hardwareAccelerated="true"
android:icon="@drawable/icon" android:label="@string/app_name">
```

As of cordova 6.2.0 remove the `android:debuggable` tag completely. Here is the explanation from cordova:

Explanation for issues of type "HardcodedDebugMode": It's best to leave out the `android:debuggable` attribute from the manifest. If you do, then the tools will automatically insert `android:debuggable=true` when building an APK to debug on an emulator or device. And when you perform a release build, such as Exporting APK, it will automatically set it to false.

If on the other hand you specify a specific value in the manifest file, then the tools will always use it. This can lead to accidentally publishing your app with debug information.

## Step 3:

Now we can tell cordova to generate our release build:

```
D:\projects\Phonegap\Example> cordova build --release android
```

Then, we can find our unsigned APK file in `platforms/android/ant-build`. In our example, the file was `platforms/android/ant-build/Example-release-unsigned.apk`

## Step 4:

Note : We have our keystore `keystoreNAME-mobileapps.keystore` in this Git Repo, if you want to create another, please proceed with the following steps.

### Key Generation:

#### Syntax:

```
keytool -genkey -v -keystore <keystoreName>.keystore -alias <Keystore AliasName> -  
keyalg <Key algorithm> -keysize <Key size> -validity <Key Validity in Days>
```

#### Egs:

```
keytool -genkey -v -keystore NAME-mobileapps.keystore -alias NAMEmobileapps -keyalg  
RSA -keysize 2048 -validity 10000
```

```
keystore password? : xxxxxxxx  
what is your first and last name? : xxxxxx  
what is the name of your organizational unit? : xxxxxxxx  
what is the name of your organization? : xxxxxxxxxx  
what is the name of your City or Locality? : xxxxxxxx  
what is the name of your State or Province? : xxxxx  
what is the two-letter country code for this unit? : xxx
```

Then the Key store has been generated with name as `NAME-mobileapps.keystore`

## Step 5:

Place the generated keystore in

old version cordova

```
D:\projects\Phonegap\Example\platforms\android\ant-build
```

New version cordova

```
D:\projects\Phonegap\Example\platforms\android\build\outputs\apk
```

To sign the unsigned APK, run the jarsigner tool which is also included in the JDK:

#### Syntax:

```
jarsigner -verbose -sigalg SHA1withRSA -digestalg SHA1 -keystore <keystorename>  
<Unsigned APK file> <Keystore Alias name>
```

## Egs:

```
D:\projects\Phonégap\Example\platforms\android\ant-build> jarsigner -verbose -sigalg  
SHA1withRSA -digestalg SHA1 -keystore NAME-mobileapps.keystore Example-release-  
unsigned.apk xxxxxmobileapps
```

OR

```
D:\projects\Phonégap\Example\platforms\android\build\outputs\apk> jarsigner -verbose -  
sigalg SHA1withRSA -digestalg SHA1 -keystore NAME-mobileapps.keystore Example-release-  
unsigned.apk xxxxxmobileapps
```

Enter KeyPhrase as 'xxxxxxxxx'

This signs the apk in place.

## Step 6:

Finally, we need to run the zip align tool to optimize the APK:

```
D:\projects\Phonégap\Example\platforms\android\ant-build> zipalign -v 4 Example-  
release-unsigned.apk Example.apk
```

OR

```
D:\projects\Phonégap\Example\platforms\android\ant-build> C:\Phonégap\adt-bundle-  
windows-x86_64-20140624\sdk\build-tools\android-4.4w\zipalign -v 4 Example-release-  
unsigned.apk Example.apk
```

OR

```
D:\projects\Phonégap\Example\platforms\android\build\outputs\apk> C:\Phonégap\adt-  
bundle-windows-x86_64-20140624\sdk\build-tools\android-4.4w\zipalign -v 4 Example-  
release-unsigned.apk Example.apk
```

Now we have our final release binary called example.apk and we can release this on the Google Play Store.

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An update to @malcubierre for Cordova 4 (and later)-

Create a file called `release-signing.properties` and put in `APPFOLDER\platforms\android` folder

Contents of the file: edit after = for all except 2nd line

```
storeFile=C:/yourlocation/app.keystore  
storeType=jks  
keyAlias=aliasname  
keyPassword=aliaspass  
storePassword=password
```

Then this command should build a release version:

```
cordova build android --release
```

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