

Android Create Signed And Zipaligned APK File

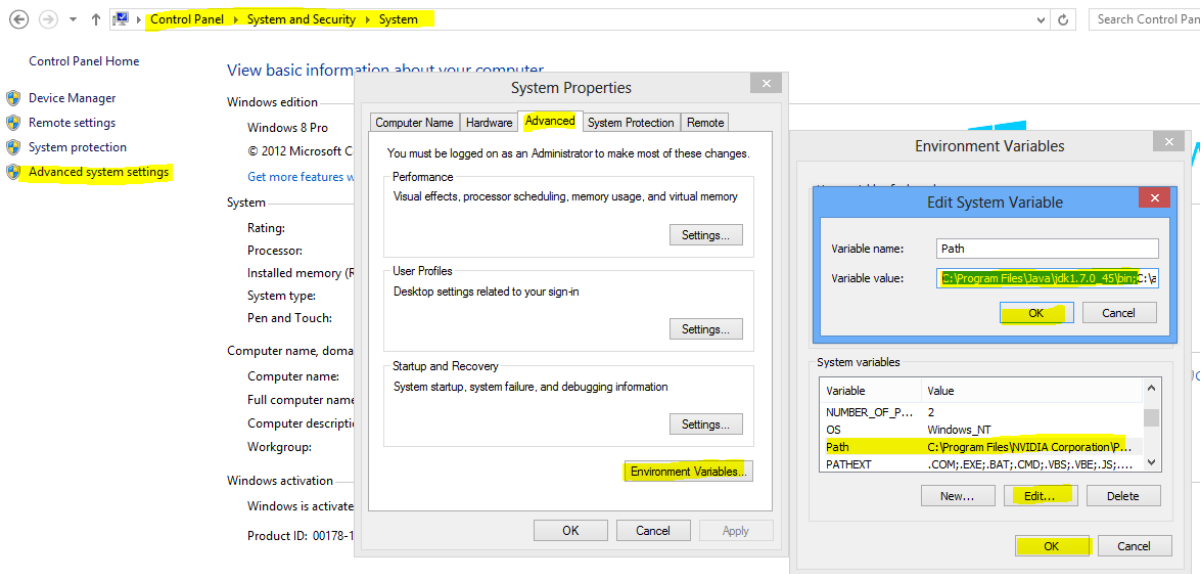
To create signed and zipaligned apk file with Maven, the necessary configurations are:

1. Firstly, you have to create a **.keystore** file:

```
1 keytool -genkey -v -keystore myCertificate.keystore -alias myKey -keyalg RSA -keysize 2048 -  
  validity 20000
```

Note: **myCertificate** is the name of your .keystore file; and **myKey** is your alies. You can change these names.

keytool is an **.exe** file in the Java JDK bin folder. To run the above commands in the Command Prompt directly, we have to add JDK bin folder into **Environment Settings**. You can do this as follows:



2. Lastly, you should add the following codes into **pom.xml** file:

```
1 <profiles>  
2   <profile>  
3     <id>android-release</id>  
4     <properties>  
5       <sign.keystore>Url of .keystore file</sign.keystore>  
6       <sign.alias>Your Alis Name</sign.alias>  
7       <sign.storepass>Your Store Password</sign.storepass>  
8       <sign.keypass>Your Key Password</sign.keypass>  
9     </properties>  
10  </profile>  
11 </profiles>  
  
1 <plugin>  
2   <groupId>org.apache.maven.plugins</groupId>  
3   <artifactId>maven-jarsigner-plugin</artifactId>  
4   <executions>  
5     <execution>  
6       <id>signing</id>  
7       <goals>  
8         <goal>sign</goal>  
9         <goal>verify</goal>  
10      </goals>  
11      <phase>package</phase>  
12      <inherited>>true</inherited>  
13      <configuration>
```

```

14         <removeExistingSignatures>true</removeExistingSignatures>
15         <archiveDirectory/>
16         <includes>
17             <include>${project.build.directory}/${project.artifactId}.apk</include>
18         </includes>
19         <keystore>${sign.keystore}</keystore>
20         <alias>${sign.alias}</alias>
21         <storepass>${sign.storepass}</storepass>
22         <keypass>${sign.keypass}</keypass>
23         <verbose>true</verbose>
24     </configuration>
25 </execution>
26 </executions>
27 </plugin>
28 <plugin>
29     <groupId>com.jayway.maven.plugins.android.generation2</groupId>
30     <artifactId>android-maven-plugin</artifactId>
31     <version>3.8.0</version>
32     <configuration>
33         <sign>
34             <debug>>false</debug>
35         </sign>
36         <zipalign>
37             <verbose>true</verbose>
38             <inputApk>${project.build.directory}/${project.artifactId}.apk</inputApk>
39             <outputApk>${project.build.directory}/${project.artifactId}-signed-aligned.apk
40             </outputApk>
41         </zipalign>
42         <device>usb</device>
43         <run>
44             <debug>true</debug>
45         </run>
46         <sdk>
47             <path>C:\adt-bundle-windows-x86-20140321\sdk</path>
48             <!--sdk dizini-->
49             <platform>13</platform>
50         </sdk>
51
52         <undeployBeforeDeploy>true</undeployBeforeDeploy>
53     </configuration>
54     <executions>
55         <execution>
56             <id>alignApk</id>
57             <phase>package</phase>
58             <goals>
59                 <goal>zipalign</goal>
60             </goals>
61         </execution>
62     </executions>
63 </plugin>

```