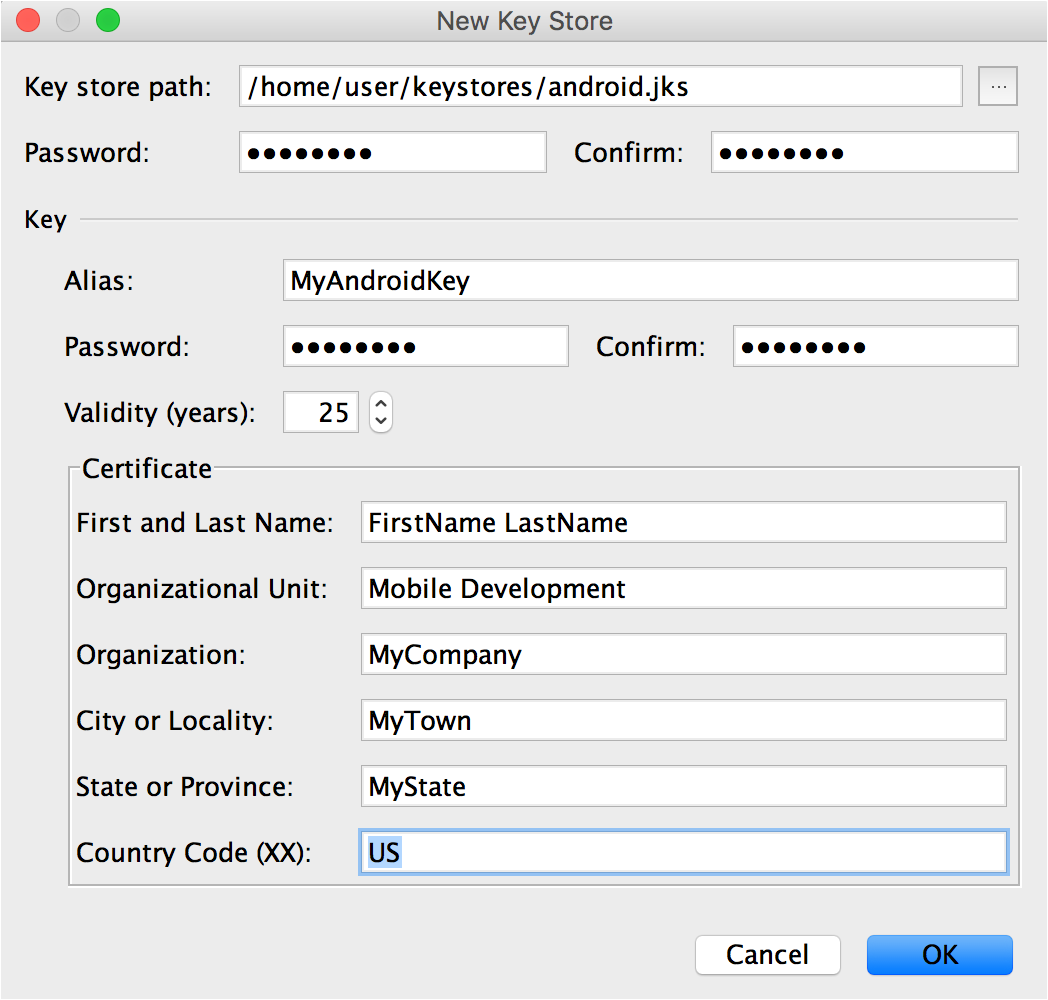
How to build a signed APK

You can generate an app signing or upload key using Android Studio, using the following steps:

1. In the menu bar, click **Build** > **Generate Signed APK**.
2. Select a module from the drop down, and click **Next**.
3. Click **Create new** to create a new key and keystore.
4. On the **New Key Store** window, provide the following information for your keystore and key, as shown in figure 3.



**Figure 3**. Create a new keystore in Android Studio.

**Keystore**

* + **Key store path:** Select the location where your keystore should be created.
  + **Password:** Create and confirm a secure password for your keystore.

**Key**

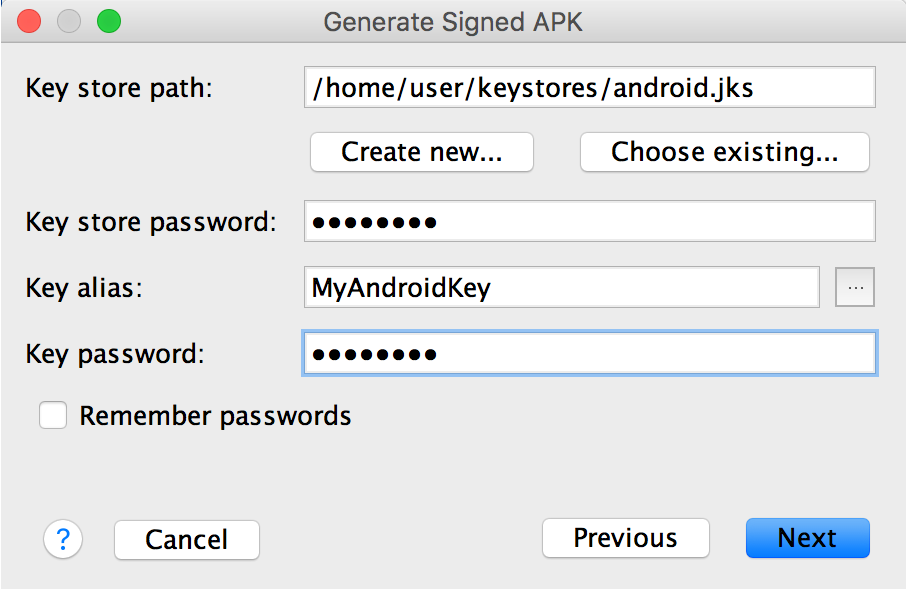
* + **Alias:** Enter an identifying name for your key.
  + **Password:** Create and confirm a secure password for your key. This should be different from the password you chose for your keystore
  + **Validity (years):** Set the length of time in years that your key will be valid. Your key should be valid for at least 25 years, so you can sign app updates with the same key through the lifespan of your app.
  + **Certificate:** Enter some information about yourself for your certificate. This information is not displayed in your app, but is included in your certificate as part of the APK.

Once you complete the form, click **OK**.

To manually sign your APK for release in Android Studio, follow these steps:

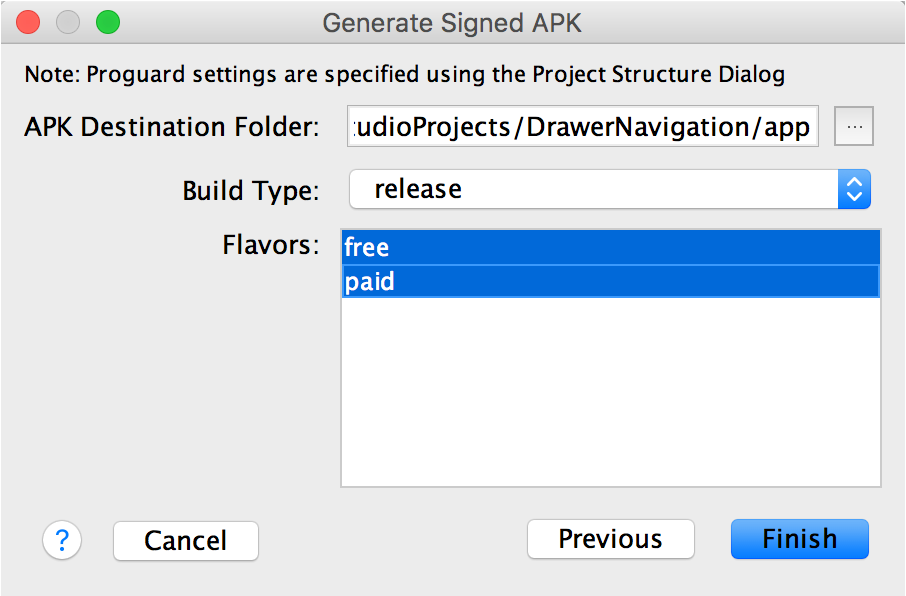
1. Click **Build > Generate Signed APK** to open the **Generate Signed APK** window. (If you just [generated a key and keystore](https://developer.android.com/studio/publish/app-signing.html#generate-key) as described above, this window will already be open.)
2. On the **Generate Signed APK Wizard** window, select a keystore, a private key, and enter the passwords for both. (If you just created your keystore in the previous section, these fields are already populated for you.) Then click **Next**.

**Note:** If you are using Google Play App Signing, you should specify your upload key here. If you are managing your own app signing key and keystore instead, you should specify your app signing key. For more information, see [Manage your key](https://developer.android.com/studio/publish/app-signing.html#manage-key) above.

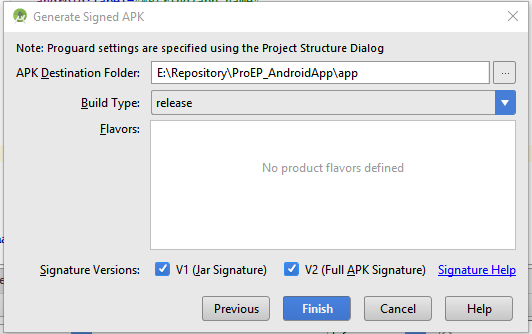


**Figure 4**. Select a private key in Android Studio.

1. On the next window, select a destination for the signed APK(s), select the build type, (if applicable) choose the product flavor(s), and click **Finish**.



**Figure 5**. Generate signed APKs for the selected product flavors.

**Note:** If your project uses product flavors, you can select multiple product flavors while holding down the **Control** key on Windows/Linux, or the **Command** key on Mac OSX. Android Studio will generate a separate APK for each selected product flavor. 

**Note:** Select both signature versions.

When the process completes, you will find your signed APK in the destination folder you selected above. You may now distribute your signed APK through an app marketplace like the Google Play Store, or using the mechanism of your choice.