

Generating a Signed Release APK Using a Wizard

To deploy and run an Android application on a physical device, you need to [sign the application digitally](#). With IntelliJ IDEA, you can have your Android Application Package (.apk file) signed with an existing release key during the package extraction. IntelliJ IDEA also incorporates a release key generation tool that can be invoked during packaging. Generated keys are saved in a keystore binary file.


You can have as many keystore files and keys as you need and use either previously created keys, or create new ones in existing keystores, or even create new keystores.

If you use the [Generate Signed APK Wizard](#), IntelliJ IDEA signs the package during extraction.



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Extracting and signing an Android application package using a wizard

1. On the main menu, choose **Build | Generate Signed APK**. The [Generate Signed APK Wizard](#) starts.
2. On the [first page](#), specify the release key to use and the keystore file that contains it. Do one of the following:
 - To have the package signed with a key from a previously generated keystore file:
 1. Specify the file location in the **Keystore path** text box. Type the path manually or click the **Choose existing** button and choose the file in the [dialog that opens](#). In the **Password** text box, type your password to access the selected keystore.
 2. Specify the key alias and the password to access the key.
 - To have a new key generated in an existing keystore:
 1. Specify the keystore location and password in the **Keystore path** and the **Password** text boxes respectively.
 2. Click the **Create new** button and [configure the release key to be generated](#) by filling in the data in the [New Key Store](#) dialog box that opens.
 - To have a new keystore file with a new key generated:
 1. Click the **Create new** button. In the [New Key Store](#) dialog box that opens, specify the location of the file to be generated in the **Key store path** text box. Type the path manually or click the **Browse** button , then select the parent folder and specify the name of the file.
 2. Specify and confirm the password to access the keystore.
 3. Configure the release key to be generated by filling in the data in the **Key** area. The procedure is identical no matter whether you are using a wizard or an artifact definition, see [Generating a Signed Release APK Using a Wizard: Generating a new release key](#) for details.
 4. Click **OK** when ready. IntelliJ IDEA brings you back to the first page of the wizard, where the keystore location, the key alias and passwords to access them are filled in in the corresponding fields.

Click **Next**. IntelliJ IDEA brings you to the [last page](#) of the wizard.

3. In the **Destination APK path** text box, specify the folder to store the package .apk file in. Type the path manually or click the **Browse** button  and select the package output folder in the **Choose destination APK file** dialog box that opens.
4. To have IntelliJ IDEA [obfuscate the application](#), during packaging, select the **Run ProGuard** check box and specify the location of the `proguard.txt` configuration file. The file is generated during project creation and is stored in the project root. IntelliJ IDEA suggests this default location in the **Config file path** text box. Accept the suggestion or specify a custom configuration file by clicking the **Browse** button  and selecting the required file in the [dialog that opens](#).
5. Click **Finish** to have the package generated and signed. When the package is generated, IntelliJ IDEA informs you about it in an information message.
 - To open the folder where the generated .apk file is stored, click the **Open File Location** button.
 - To leave the wizard, click **Close**.

Generating a new release key

1. Open the [New Key Store](#) dialog box by doing one of the following:
 - On the [first page](#) of the **Generate Signed APK** wizard, click the **Create new** button.
 - During creation of an **Android Application** artifact definition, click the **Create new** button in the [Android](#) tab.
2. Specify the keystore location and password in the **Keystore path** and the **Password** text boxes respectively.

If you are going to add a new key to an already existing keystore and have already chosen it in the wizard or in the **Artifact** tab, these fields are already filled in.

3. Assign an alias to the new key in the **Alias** text box. The key will be referred to using this alias.
4. Specify the password for the key in the **Password** and **Confirm** text boxes.
5. Specify the validity period for the key in accordance with the [expected lifespan of your application](#).
6. Provide the following personal information:
 - **First and Last Name**
 - **Organizational Unit**
 - **Organization**
 - **City or Locality**
 - **State or Province**
 - **Country Code**
7. Click **Next**. Depending on your workflow, IntelliJ IDEA brings you to the [last page](#) of the Wizard or to the [Android](#) tab.

See Also

Procedures:

- [Generating a Signed Release APK Through an Artifact](#)
- [Generating Signed and Unsigned Android Application Packages](#)
- [Generating an Unsigned Release APK](#)
- [Generating an APK in the Debug Mode](#)
- [Android](#)

Reference:

- [Generate Signed APK Wizard](#)
- [Android Reference](#)

External Links:

- <http://developer.android.com/guide/publishing/app-signing.html>

Web Resources:

- [Developer Community](#)