

# Generating Signed and Unsigned Android Application Packages

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IntelliJ IDEA provides facilities and interface for extracting Android application packages ([.apk files](#)). IntelliJ IDEA supports integration with the *Android Asset Packaging Tool (aapt)* which compiles the application resources. For more details, see <http://developer.android.com/tools/building/index.html>.

By default, *aapt* compresses resources during packaging. To have resources of a certain type included in the .apk file uncompressed, type `-0 <file extension for this type of resources>` in the **Additional command line parameters:** text box on the **Compiler** tab of the **Android Facet** dialog box. As a result, all the files with the specified extension will be excluded from compression.

With IntelliJ IDEA, you can extract both *signed* and *unsigned* .apk files:

- Extract *signed packages* to deploy and run them on physical devices. Based on this signature (certificate), the Android system identifies the author of a deployed application. You do not need to apply for a personal signature to any authority, a self-generated signature is quite sufficient. With IntelliJ IDEA, you can extract a *signed package* in two ways:
  - Use the [Extract a Signed Android Application Package Wizard](#). The package will be signed during extraction.
  - Configure the .apk file as an [artifact](#) by creating an [artifact definition](#) of the type *Android application* with the **Release signed** package mode. When IntelliJ IDEA builds the package in accordance with this definition, the package is signed it automatically.
- Extract *unsigned packages* to test them on emulators. Unsigned packages can be extracted only through artifact definitions with the **Release unsigned** package mode specified.
- Extract and sign *debug* packages. This signature is sufficient for testing and debugging applications but does not allow publishing them. Signing packages in the debug mode is available only through an artifact with the **Debug** package mode specified.

You can also have the application obfuscated during packaging through integration with the [ProGuard](#) built-in tool.

In this part:

- [Generating a Signed Release APK Using a Wizard](#)
- [Generating a Signed Release APK Through an Artifact](#)
- [Generating an Unsigned Release APK](#)
- [Generating an APK in the Debug Mode](#)
- [Suppressing Compression of Resources](#)

## See Also

Concepts:

- [Artifact](#)

Procedures:

- [Generating a Signed Release APK Using a Wizard](#)
- [Configuring Artifacts](#)
- [Android](#)

Reference:

- [Android Tab](#)
- [Artifacts](#)

#### External Links:

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

#### Web Resources:

- [Developer Community](#) 