

Using Ice on Android

This page provides important information for users of the Ice for Java distribution.

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Overview of Ice on Android

Ice is available for Android through the Ice for Java distribution. To develop an Ice application for Android you will need the following components:

- Binary distribution of Ice for your development platform (Linux, macOS, Windows)
- [Android Studio](#)
- [Ice Builder for Gradle](#)



You can use either the Java or the Java Compat mapping in your Android project. Note however that the Java mapping uses Java 8 language features and currently requires the Java 8 toolchain provided in Android Studio 3 Preview.



Configuring an Android Studio project

Android Studio uses a [Gradle](#)-based build system. Using Ice requires modifying your project's `build.gradle` settings file(s) to include the Ice JAR files. For convenience we recommend using the [Ice Builder for Gradle](#) plug-in to help automate the compilation of your Slice files.

The following snippets give an example of configuring the Ice and Ice Builder for Gradle sections for an Android project.

Ice build.gradle configuration

```
buildscript {
    repositories {
        mavenCentral()
        maven {
            url "https://plugins.gradle.org/m2/"
        }
    }
    dependencies {
        classpath "gradle.plugin.com.zeroc.gradle.ice-builder:slice:1.4.1"
    }
}
apply plugin: 'java'
apply plugin: 'slice'
slice {
    java {
        srcDir = '.'
    }
}
dependencies {
    compile 'com.zeroc:ice:3.7.0'
}
```

Using the Sample Programs

Sample programs are available at the [ice-demos GitHub repository](https://github.com/zeroc-ice/ice-demos). You can browse this repository to see build and usage instructions for all supported programming languages. Simply clone this repository:

```
git clone -b 3.7 https://github.com/zeroc-ice/ice-demos.git
cd ice-demos
```

You can then import the directory `java/Android` or `java-compat/Android` into Android Studio.