# **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. 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 <code>java/Android</code> or <code>java-compat/Android</code> into Android Studio.