

# Setting up the Android development environment

fork and edit tutorial (<https://github.ibm.com/MFPSamples/DevCenter/tree/master/tutorials/en/foundation/7.1/setting-up-your-development-environment/setting-up-the-android-development-environment.html>) | report issue (<https://github.ibm.com/MFPSamples/DevCenter/issues/new>)

## Overview

**Prerequisite:** If you intend to use IBM MobileFirst Platform Studio or CLI to develop your application, first read the Setting up the MobileFirst development environment ([../setting-up-your-development-environment/setting-up-the-mobilefirst-development-environment/](#)) tutorial.

Before you can develop, deploy, and test your Android applications, you must follow several steps to set up the Android development environment. These steps include installing the Android SDK and ADT plug-in (if you are using Eclipse) or installing the Android Studio.

This tutorial covers the following topics:

- Android SDK
- Android Studio
- ADT Eclipse plug-in
- SDK platform and virtual devices
- Devices and developments

## Android SDK

The Android SDK provides the tools and APIs that you need to develop applications on the Android platform by using the Java programming language.

To install the SDK, visit the Android Developer Tools page (<http://developer.android.com/sdk/index.html>) and scroll to **Other Download Options → SDK Tools Only** to download the SDK installer.

**Note:** To use the Android SDK, use Oracle Java Runtime Environment (JRE).

## Android Studio

You can download Android Studio from <https://developer.android.com/sdk/index.html> (<https://developer.android.com/sdk/index.html>)

If you choose to work with Android Studio, you do not need to install the ADT Eclipse plug-in.

After installing Android Studio, you must configure MobileFirst Studio to use it.

In Eclipse, select **File > Preferences > MobileFirst** and provide the root location for the Android Studio folder.

**Note:** Gradle is currently not supported in hybrid applications that are generated either in MobileFirst Studio or via the command-line interface (CLI).

## ADT Eclipse plug-in

The Android Development Tools (ADT) plug-in for Eclipse is an integrated environment in which you can build rich Android apps. If you are using Android Studio, you can skip this step.

To install ADT, in Eclipse:

1. Click **Help > Install New Software**.

