

# Developing Adapters in IDEs

## Overview

As taught in previous Adapters tutorials (../), MobileFirst Adapters are Maven projects that are created by using either Maven directly or via the MobileFirst Developer CLI. The adapter code can then be edited in any IDE, and later built and deployed using either Maven or the MobileFirst Developer CLI. A developer may also choose to create, develop, build and deploy all inside a supported IDE.

In this tutorial a MobileFirst adapter is created and built from the Eclipse IDE.

### Prerequisite:

- Get familiarized with MobileFirsts adapters by reading the Adapters tutorials (../) first.
- Maven integration in Eclipse. Starting Eclipse Kepler (v4.3), Maven support is built-in in Eclipse. If your Eclipse instance does not support Maven, follow the m2e instructions (<http://www.eclipse.org/m2e/>) to add Maven support.

### Jump to:

- Creating a new adapter Maven project
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- Building and deploying an adapter Maven project
- Further reading

## Create or import a MobileFirst Adapter Maven project

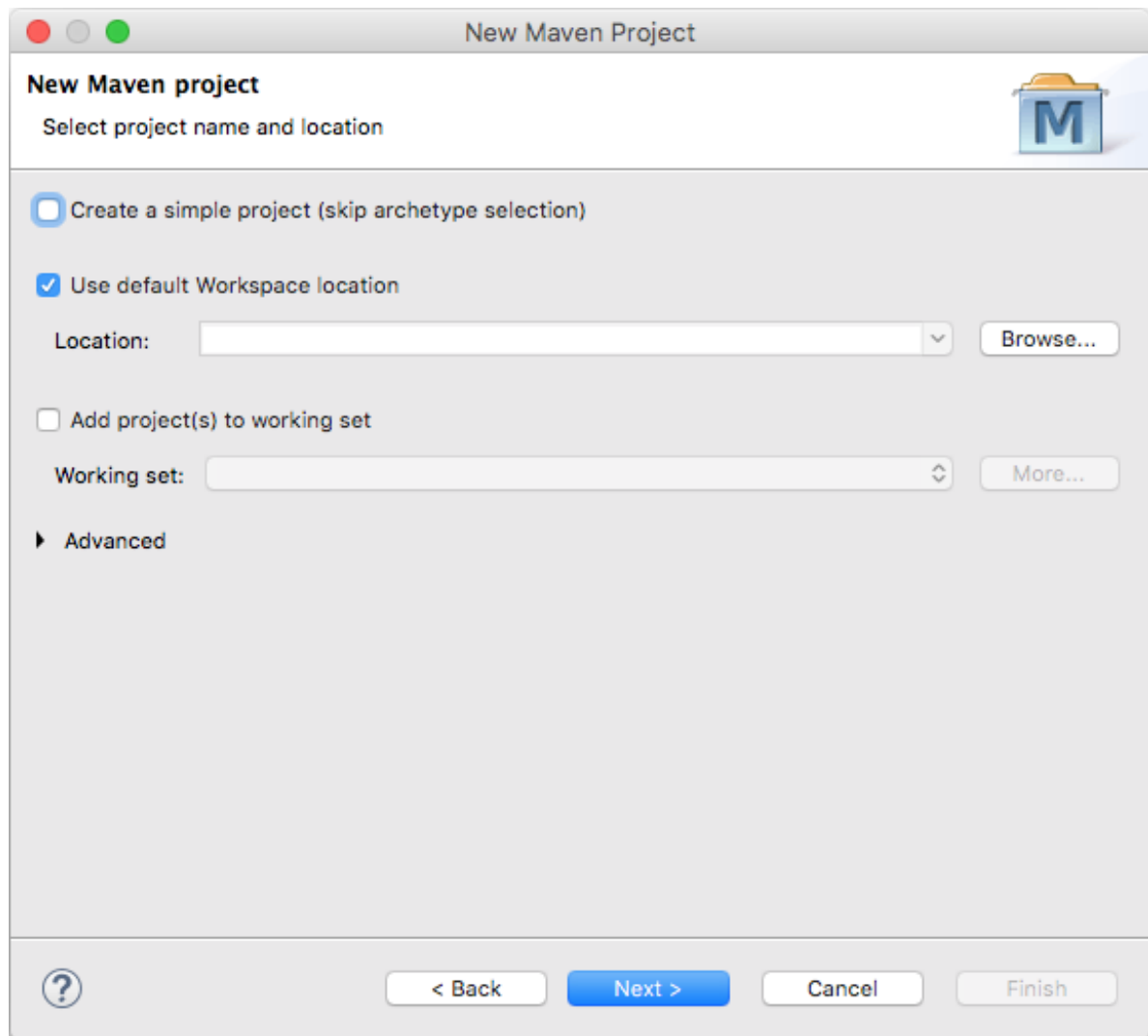
To create a new project or importing an existing one, follow the bellow instructions.

### Creating a new adapter Maven project

1. To create a new adapter Maven project, select: **File → New → Other... → Maven → Maven Project** and click **Next**.

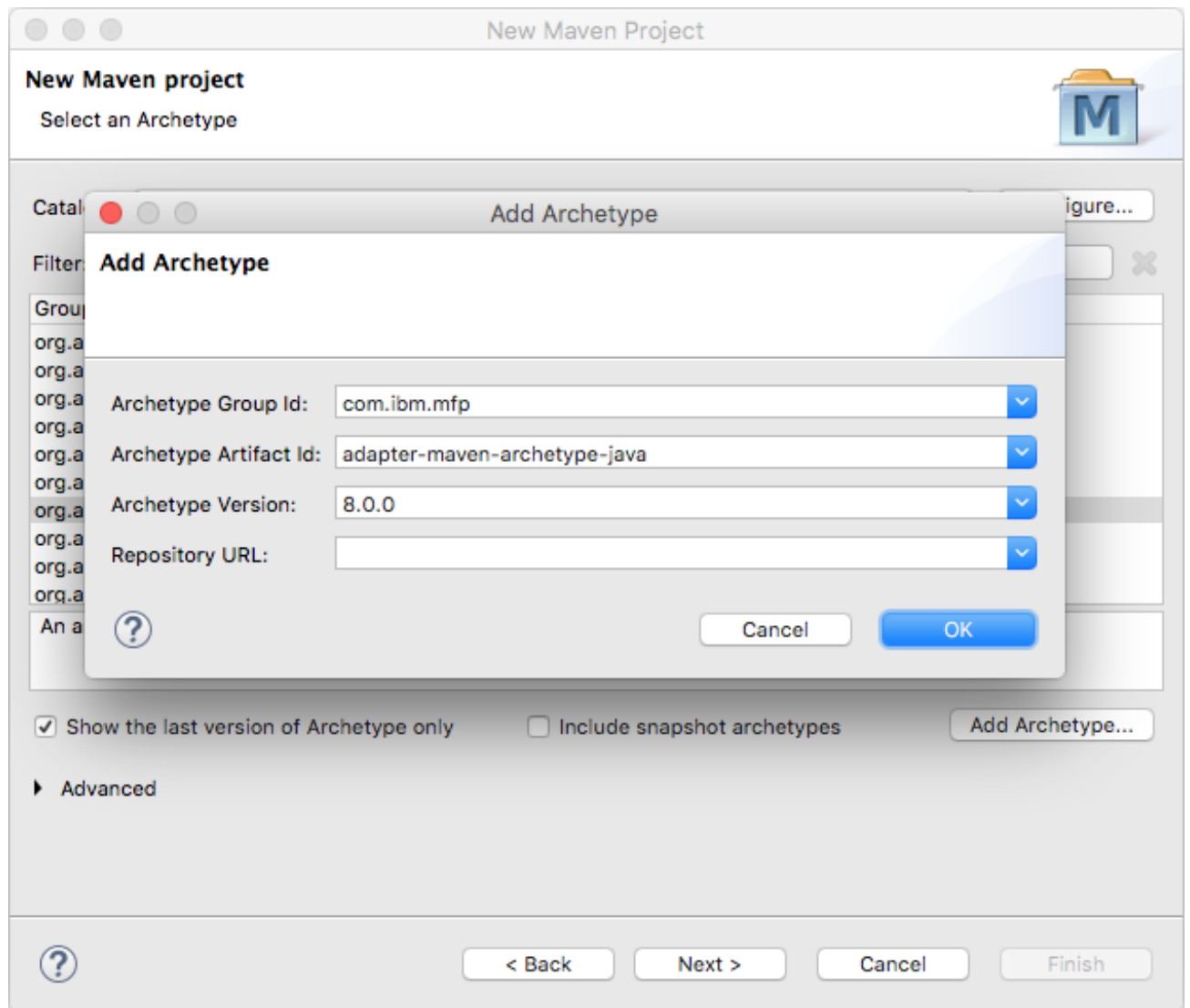


2. Provide project name and location.
  - Make sure the option to create a simple project is ticked **off** and click **Next**.



3. Add the MobileFirst adapter Archetype.

- Click on **Add Archetype** and provide the following details:
  - **Archetype Group ID:** `com.ibm.mfp`
  - **Archetype Artifact Id:** either `adapter-maven-archetype-java`, `adapter-maven-archetype-http` or `adapter-maven-archetype-sql`
  - **Archetype Version:** `8.0.0`



4. Specify Maven project parameters.

- Specify required **Group ID**, **Artifact ID**, **Version** and **package** parameters, and click **Finish**.
- Change `${archetypeVersion}` to `8.0.0`.

New Maven Project

**New Maven project**  
Specify Archetype parameters

Group Id: MyAdapterExample

Artifact Id: AdapterExample

Version: 0.0.1-SNAPSHOT

Package: MyAdapterExample.AdapterExample

Properties available from archetype:

Name	Value
archetypeVersion	\${archetypeVersion}

Advanced

< Back Next > Cancel Finish

## Importing an existing adapter Maven project

To import the adapter Maven project, select **File → Import... → Maven → Existing Maven Projects**.



## Building and deploying an adapter Maven project

By building an adapter Maven project, the resulting **.adapter** artifact will be generated in the Maven project's **target** folder.

### Building an adapter Maven project

To build an adapter, right-click on the adapter folder and select **Run As → Maven install**.

### Deploying an adapter Maven project

The generated **.adapter** artifact can be deployed either to the local MobileFirst Server or to a remote one by using either Maven, the MobileFirst Developer CLI or the MobileFirst Operations Console.

Learn how to deploy an adapter in the Deploy section ([../creating-adapters/#build-and-deploy-adapters](#)) of the Creating Java and JavaScript Adapters tutorial.

**Tip:** Eclipse can also be enhanced to ease the deployment step by integrating a **Command-line** window using a plug-in, creating a consistent development environment. From this window Maven or MobileFirst Developer CLI commands can be run.

## Further reading

Learn how to debug Java code in the [Testing and debugging adapters \(../testing-and-debugging-adapters\)](#) tutorial.