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 devloper may also choose to create, develop, build and deploy all inside a supported IDE, such as Eclipse or IntelliJ. 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:

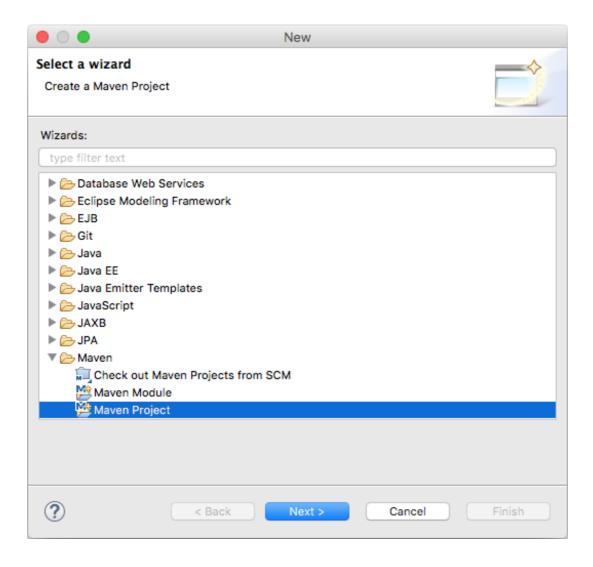
- Creating a new adapter Maven project
- Importing an existing adapter Maven project
- Building and deploying an adapter Maven project
- Further reading

Create or import a MobileFirst Adapter Maven project

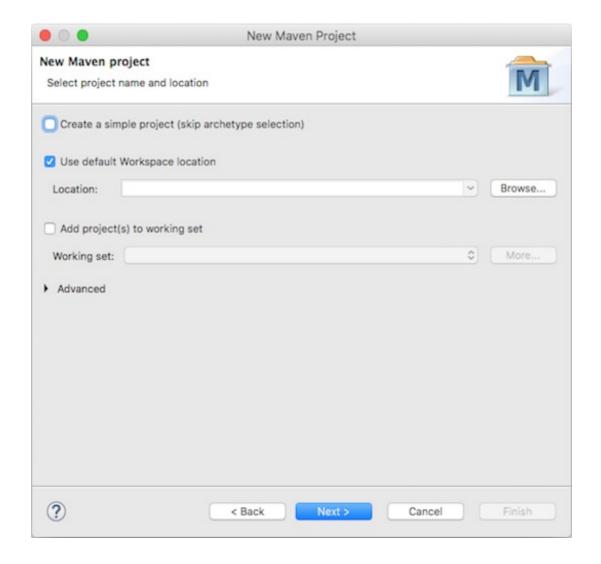
Follow the bellow instructions to either create a new adapter Maven project or import an existing one.

Creating a new adapter Maven project

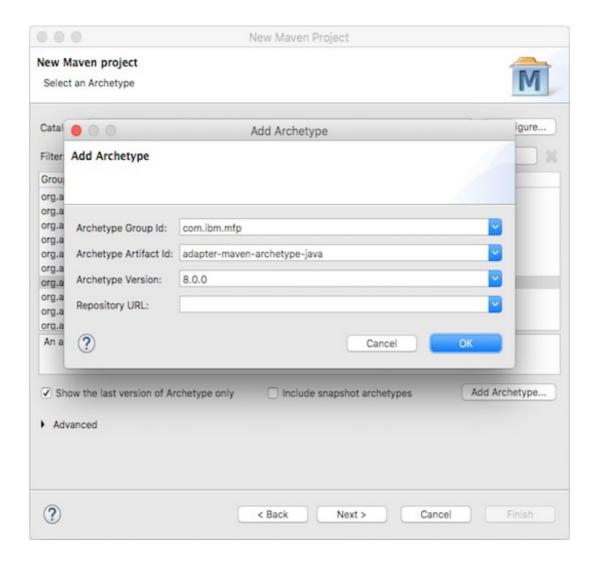
To create a new adapter Maven project, select: File → New → Other... → Maven → Maven Project and click Next.



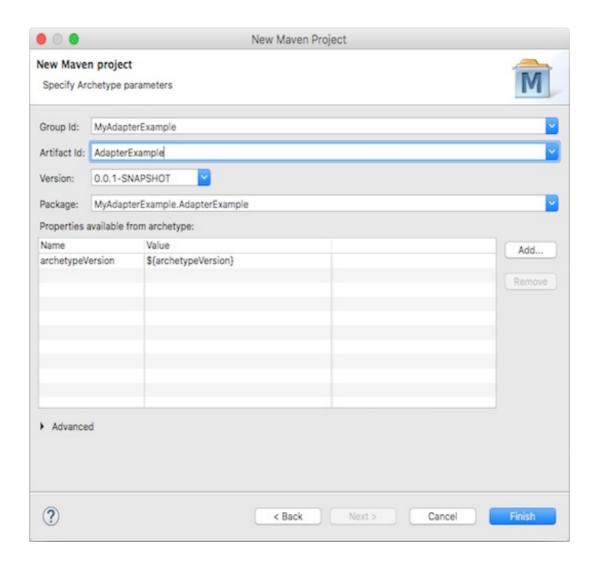
- 2. Provide project name and location.
 - Make sure the option to create a simple project is ticked off and click Next.



- 3. Add the MobileFirst adapter Archetype.
 - Click on **Add Archetype** and the 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

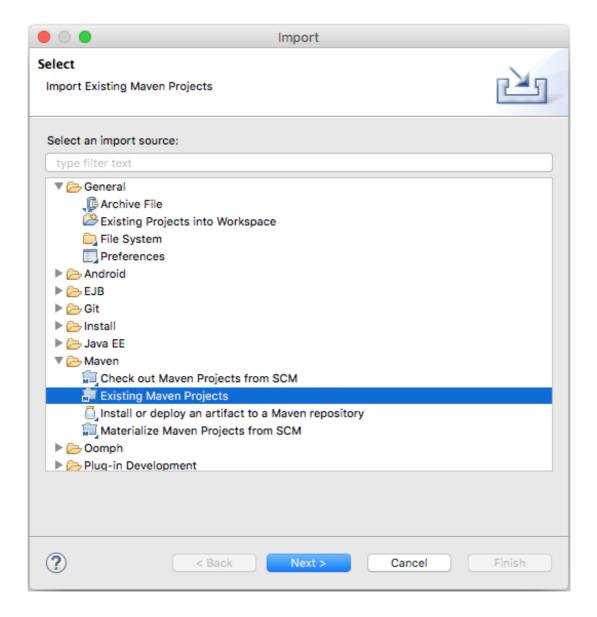


- 4. Specify Maven project parameters.
 - Specify required Group ID, Artifact ID, Version and package parameters, and click Finish.
 - Change \${archetypeVersion} to 8.0.0.



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

An adapter project and be built and deployed by using either Maven command-line commands, the MobileFirst Developer CLI or from Eclipse.

Learn how to build and deploy adapters (../creating-adapters/#build-and-deploy-adapters).

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

Building an adapter

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

Deploying an adapter

To deploy an adapter, first add the deploy Maven command:

- 1. Select Run → Run Configurations..., right-click on Maven Build and select New.
- 2. Provide a Name: "Maven deploy".
- 3. Set as a Goal: "adapter:deploy".
- 4. Click **Apply** followed by clicking on **Run** to have an initial deploy.

You can now right-click on the adapter folder and select Run As → Maven Deploy

Building and deploying an adapter

You can also combine the "build" and "deploy" Maven Goals to a single "build and deploy" Goal: "clean install adapter:deploy".

Further reading

Learn how to debug Java code in adapters in the Testing and debugging adaters (../testing-and-debugging-adapters) tutorial.