

Building A Continuity Reactor Application

Module Objectives

In this module, you will learn how to:

- Use the Continuity Reactor `maven` archetype
 - Build a Continuity Reactor Application
 - Deploy and run the application
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Using the Reactor Maven Archetype

This Maven archetype generates a Reactor application Java project with the proper dependencies and sample code as a base to start writing your own Big Data application

To generate a new project, execute the following command:

```
$ mvn archetype:generate \  
-DarchetypeCatalog=http://tinyurl.com/ndoa5I2 \  
-DarchetypeGroupId=com.continuuity \  
-DarchetypeArtifactId=reactor-app-archetype \  
-DarchetypeVersion=2.1.0
```

This can take a moment or two to start downloading...

Specifying the Maven Properties

- In the interactive shell that appears, specify basic properties for the new project
 - After entering the *groupId* and the *artifactId*, accept the defaults for the other properties
 - *groupId* could be `com.example`
 - *artifactId* (the project name) could be `BigDataApp`
 - Enter `y` or press `Enter` to accept the default or results
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Specifying the Maven Properties

Entering *groupId* as `com.example` and *artifactId* as `BigDataApp`:

```
Define value for property 'groupId': : com.example
Define value for property 'artifactId': : BigDataApp
Define value for property 'version': 1.0-SNAPSHOT: :
Define value for property 'package': com.example: :
Confirm properties configuration:
groupId: com.example
artifactId: BigDataApp
version: 1.0-SNAPSHOT
package: com.example
Y: : Y
```

Building the Project

- After you confirm the settings, the directory `BigDataApp` is created under the current directory
- To build the project:

```
$ cd BigDataApp  
$ mvn clean package
```

- Creates `BigDataApp-1.0-SNAPSHOT.jar` in the target directory
- This JAR file is a skeleton Reactor application that is ready to be edited
- When finished and compiled, deploy it by dragging and dropping it on the Reactor Dashboard

Now, what to put in that JAR file...

Opening in IntelliJ

- You can open the resulting project in IntelliJ
 - From within IntelliJ, `File > Open` and navigate to the `pom.xml` file within `BigDataApp` directory
 - IntelliJ will then open the maven project
 - The source code will be in `src > main > java > com.example > WordCountApp`
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Module Summary

You should now be able to:

- Use the Continuity Reactor `maven` archetype
 - Create a simple Continuity Reactor Application
 - Open it in an IDE
 - Deploy and run it in the Reactor
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Module Completed

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