**Setting Up Arquillian: An integration testing framework for Containers**

The Java Platform, Enterprise Edition (Java EE) is the industry standard for developing portable, robust, scalable and secure server-side Java applications. This means when you write your Java code you don’t need to worry about writing portable, robust, scalable and secure server-side code. The JEE platform will manage that for you, but this also means testing of Java EE, testing enterprise applications is more difficult. Testing business components, in particular, can be very challenging. Often, a simple unit test isn't sufficient for validating such a component's behaviour. The reason is that components in an enterprise application rarely perform operations which are strictly self-contained. Instead, they interact with or provide services for the greater system. They also have declarative functionality which gets applied at runtime.

Arquillian is a testing framework developed at JBoss.org, empowers the developer to write integration tests for business objects that are executed inside a container or that interact with the container as a client. The container may be an embedded or remote Servlet container, Java EE application server, Java SE CDI environment or any other container implementation provided. Arquillian strives to make integration testing no more complicated than basic unit testing.

To set up Arquillian do the following:

1. **Download Eclipse JEE**

<http://www.eclipse.org/downloads/packages/eclipse-ide-java-ee-developers/keplersr2>

Select the appropriate download link, for example [**Windows 64-bit**](http://www.eclipse.org/downloads/download.php?file=/technology/epp/downloads/release/kepler/SR2/eclipse-jee-kepler-SR2-win32-x86_64.zip)

Select Ireland – HEAnet

Maven is included in JEE so there’s no need to download Maven if you install JEE

1. **Open Eclipse JEE**

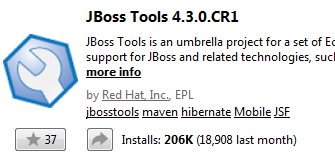
Click on Eclipse JEE to open Eclipse JEE:

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1. **From the Eclipse JEE menu bar select Help->Eclipse marketplace**
2. **In the FIND box type - JBoss**

Arquillian is a JBoss tool so you need to install JBoss

You should see a range of JBoss products. I chose this one:



1. **Install JBoss Tools 4.3.0 CR1**
2. **Follow the instructions in chapter 3.4. “Setting up and running the test in Eclipse” from here:**

**http://docs.jboss.org/arquillian/reference/1.0.0.Alpha5/en-US/html\_single/#d0e574**