1. The Redhat JBoss Developer Suite of tools will be used for this class. The Redhat JBoss Developer Suite consists of a single download and installer to install the JBoss Developer Studio IDE, OpenJDK, and JBoss EAP. We will also be using GIT BitBucket for this class. Use the following steps to install each of the tools.
   1. JBoss Developer Studio IDE and JBoss EAP Application Server:
      1. Download and install the OpenJDK, JBoss Developer Studio, and JBoss EAP as a single download for you platform:
2. Go to https://developers.redhat.com/products/devsuite/
3. Click on the Download link on right hand side of the page.
4. Download (note you may be asked to setup a Redhat Developer account):
   * Windows: Click on the Install Windows link
   * Mac: Click on the Install macOS link
   * Run the installer. Install the Red Hat Developer Studio IDE and OpenJDK components.
     1. Install JBoss EAP server:
        1. Start the JBoss Developer Studio IDE and create a default workspace as prompted.
        2. Click the Servers tab and the create a new server link. Select the Red Hat JBoss Enterprise Platform 7.x server type. See figure 1. Click Next. Click the Download and install runtime link at the top of the dialog and follow the install instructions. Wait until the download and installation of the JBoss EAP server is complete.
        3. Once complete there should be a JBoss EAP server listed in your Servers tab.
     2. Validate environment and tools
5. Start the JBoss Developer Studio IDE and create a default workspace as prompted.
6. In the Red Hat Central page enter helloworld in the search box and select the helloworld CDI Servlet 3 demo application. See figure 2. Click Finish to complete the project and code generation. A project jboss-helloworld should be listed as a project your workspace.
7. Highlight the 'jboss-helloworld' project and right click to select the Run As menu. Select Run on Server option, chose the JBoss EAP server, click the Finish button. See figure 3.
8. Once the JBoss EAP server has started and code deployed a simple page showing Hello World! should will be displayed in the IDE’s internal browser.
9. NOTE: by default the project can be manually built and deployed using the provided Maven script (pom.xml) OR the project will automatically be built using the IDE (and the ‘Build Automatically’ setting located in the Project directory). It order to get auto-deployment to work properly with the IDE automatic build requires you to update the JBoss EAP configuration file. This can be done as follows:

* Go the Servers tab within your Project Workspace.
* Expand the JBoss EAP Server display the Filesets tree.
* Expand the Configuration File tree, right click on the standalone.xml file, and select the Edit File menu option. Select the Source tab in the editor.
* Locate the ‘jboss:domain:deployment-scanner subsystem.
* Add the option auto-deploy-zipped=”false” as an XML attribute to the deployment-scanner setting.
* Add the option auto-deploy-exploded=”true” as an XML attribute to the deployment scanner setting. NOTE: be careful cutting and pasting text from a Word document into code or XML. You should paste into a plain text editor and validate no strange characters are being pasted into the code or XML. See figure 4 and figure 5.
* Save changes and close the configuration file.
* Restart the JBoss EAP server.
* To validate this is working properly, start the JBoss EAP server. Make a change and save the change to one of the Java files in the project. You should see that the war file was redeployed by monitoring the Console tab.
  1. Install GIT Client:
     + The SourceTree GIT Client will be used for this class. Download and install from https://www.sourcetreeapp.com/.









