

CS 305 Integrating the Maven Dependency-Check Plug-In Tutorial

This course uses Maven, which is a package manager. You can run the dependency check as a standalone application or as part of a Maven project. This tutorial shows you how to run a dependency check as a Maven project. Follow these steps to integrate the dependency-check plug-in.

Note: You should run a Hello World program successfully before modifying your pom.xml file.

1. Go to the OWASP Dependency-Check Maven webpage linked in the Module Three and Seven Resources sections. Refer to the example provided on the webpage and as shown below.

Example 1:

Create the dependency-check-report.html in the target directory.

2. Identify the Dependency-Check version number. You will need this information for step 3.

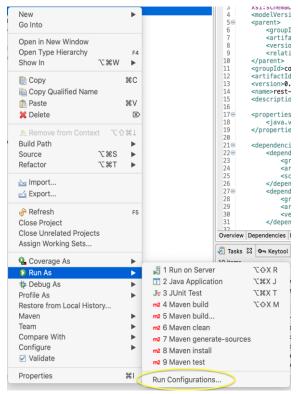




- 3. Next, upload the Maven project you would like to complete a static test for in Eclipse.
 - A. Open the pom.xml file to add the dependency-check plug-in.
 - B. Copy the following lines of code and paste the code into the pom.xml file. Be certain you're using the latest version based on your findings in step 2.

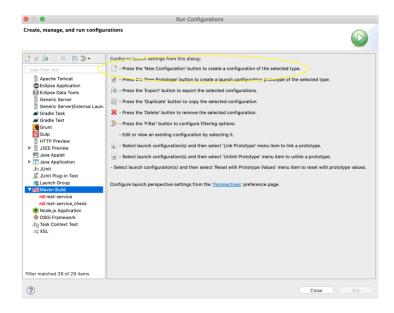
Note: You will need to complete these steps for **each** code base or software application to use the dependency-check plug-in.

- 4. Eclipse will run the Maven plug-in when you compile your code. Run the pom.xml file to make certain that the plug-in is running effectively.
 - A. On the menu bar, click Run, Run As, and Run Configurations.

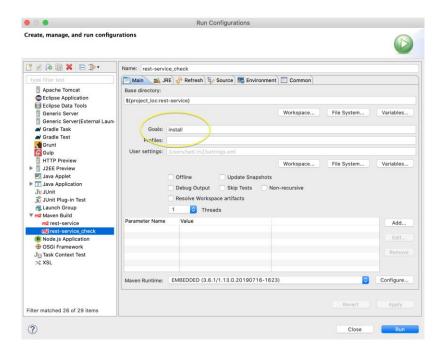


B. Double-click **Maven Build** in the Run Configurations window in Eclipse.



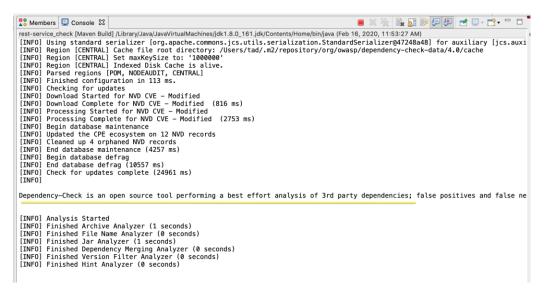


- i. Choose the Base directory if it is not already present by clicking **Workspace**. Then select the appropriate directory.
- C. Enter "install" in the Goals field. Then click Run.





D. Be certain to observe the **Console** for dependency-check execution. The first time you do this, it will require more time to download the Common Vulnerabilities and Exposures (CVE) from the National Vulnerabilities Database (NVD).



- E. When the Run action is complete, check under the **Target director** of the project to see the **dependency-check-report.html** report.
 - i. A sample report is available at <u>Project: DependencyCheck</u>. The output report should look like the example below.

Project: DependencyCheck

