Chapter 3

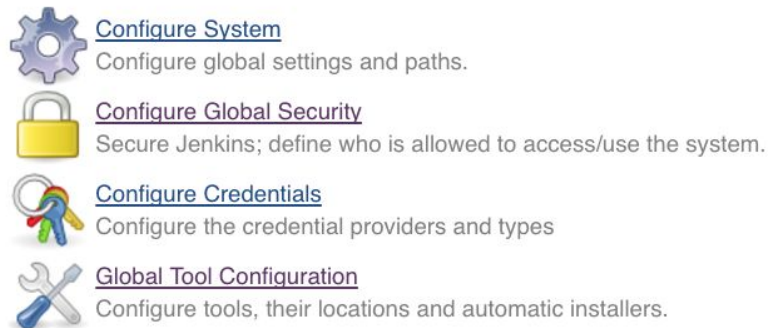**Lab 3.2 - Configure Jenkins**

1. Click on "Manage Jenkins".

2. Click on "Global Tool Configuration".

3. Under "JDK installations", click on "Add JDK".

4. Uncheck "Install automatically" and add Java's "`JAVA_HOME`".

JDK

JDK installations   JDK
                     Name   OpenJDK

                     JAVA_HOME   /usr/lib/jvm/java-8-openjdk-amd64
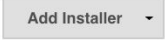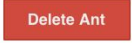
                     ☐ Install automatically

5. Install Ant and Maven by giving them a name and selecting the latest version.

Ant
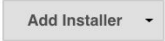
Ant installations   Ant
                     Name   Ant Install

                     ☑ Install automatically

                     Install from Apache
                     Version [1.9.7 ↕]

                                                              Delete Installer

                     Add Installer   ▾

                                                              Delete Ant

                     Add Ant
                     List of Ant installations on this system

Maven

Maven installations   Maven
                       Name   Maven Install

                       ☑ Install automatically

                       Install from Apache
                       Version [3.3.9 ↕]

                                                              Delete Installer

                       Add Installer   ▾

                                                              Delete Maven

                       Add Maven
                       List of Maven installations on this system

Save   Apply

6. Click on "Save".

Note: If the Maven dialog box does not show up as an option, you will need to install the Maven plugin according to the following instructions.

               THE LINUX FOUNDATION

Install the Maven Integration Plugin

In the next chapter, we will be configuring a Maven job. Jenkins does not come with a built-in Maven job template, but luckily it has a very rich community-driven library of plugins, including a Maven Integration plugin.

1. From the main dashboard, navigate to "Manage Jenkins" > "Manage Plugins".

2. On the "Available" tab, filter plugins for Maven Integration.

Filter: Maven Integration

Updates	**Available**	Installed	Advanced		
Install ↓		**Name**			**Version**
☑	Maven Integration plugin				2.15.1
	This plugin provides an advanced integration for Maven 2/3 projects.				
☐	Pipeline Maven Integration Plugin				0.5
	Provides maven integration with Pipeline Plugin by using the withMaven step, which configures a maven environment to use within a pipeline job by calling sh mvn or bat mvn.				

Install without restart   Download now and install after restart   Update information obtained: 9 min 12 sec ago   Check now

3. Check "Install" on the "Maven Integration plugin", **not** the "Pipeline Maven Integration Plugin" variant.

4. Select "Download now and install after restart" option.

5. A new page will appear with all of the plugins being installed (if there are any). On the bottom of that page select "Restart Jenkins when installation is complete and no jobs are running".

Maven Integration plugin   Installing

Go back to the top page
(you can start using the installed plugins right away)

☐ Restart Jenkins when installation is complete and no jobs are running

6. Verify Jenkins is restarting. If it does not restart manually, then you can restart it from the command line by running:

```
$ sudo service jenkins restart
```

Maven in Five Minutes

The Apache Maven project has a great 5-minutes tutorial on using Maven. Although, in this course, we only touch on the use of Maven with the sample PetClinic application, it is strongly recommended to review this tutorial to better understand Maven: Maven in 5 Minutes.