

Importing Balana 1.0.0 into Eclipse

Step by step tutorial to create Balana's project for Eclipse IDE

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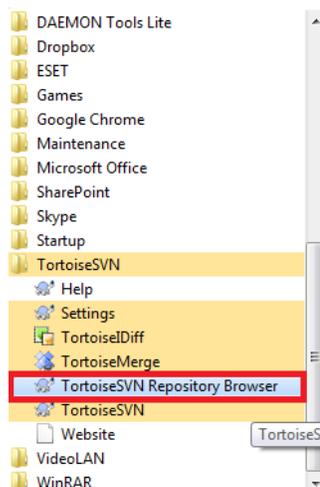
Introduction:

Balana is the open source implementation of XACML 3.0. It is managed by the WSO2, and build on the Sun's XACML 2.0 implementation. It is open source, licened under Apache's license. It can be downloaded and used by checking out the maven's project from WSO2's repository.

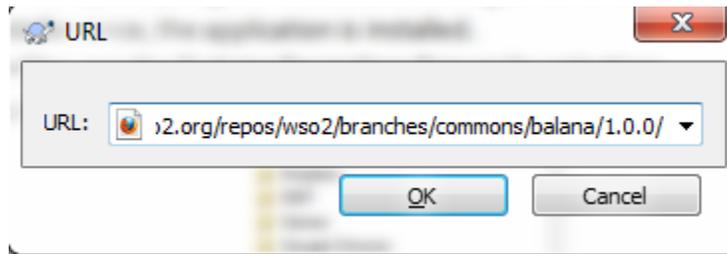
This manual includes the step by step procedure of downloading and importing the balana's project into eclipse IDE.

Checking out balana:

1. Complete source code of beta release of balana, balana version 1.0.0, is available on the online wso2 repository at:
<https://svn.wso2.org/repos/wso2/branches/commons/balana/1.0.0/>
2. It can be checked out using any of the svn software, but tortoise is one of the most widely recommended because of its simple interface, so it is advisable to use it.
3. Download Tortoise SVN from the following link:
<http://sourceforge.net/projects/tortoisesvn/?source=dlp>
4. Run the newly downloaded installer.
5. Install the software by accepting the license and leaving all other settings default.
6. "Finish" the installer, once the application is installed.
7. In the program files, run the Tortoise Repository Brower by selecting:
Program Files > Tortoise SVN > Tortoise Repository Browser

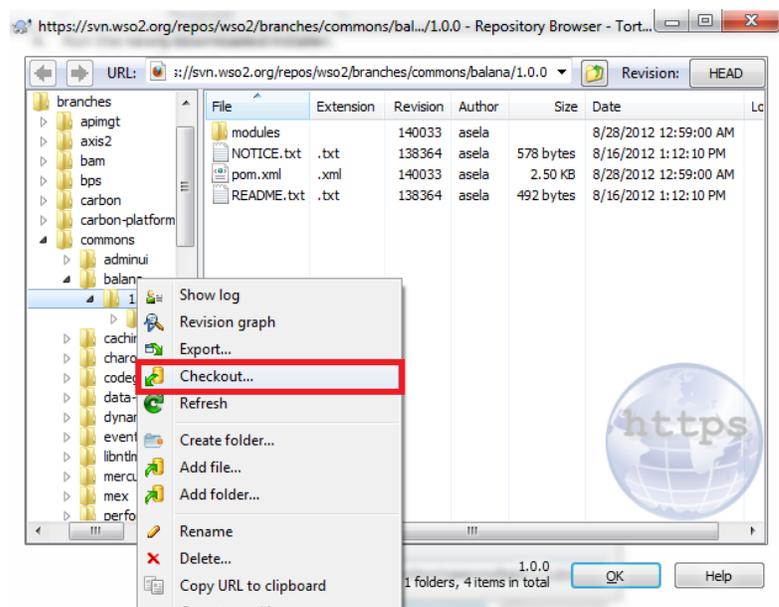


8. Paste the balana's repository browser in the provide space and press OK.

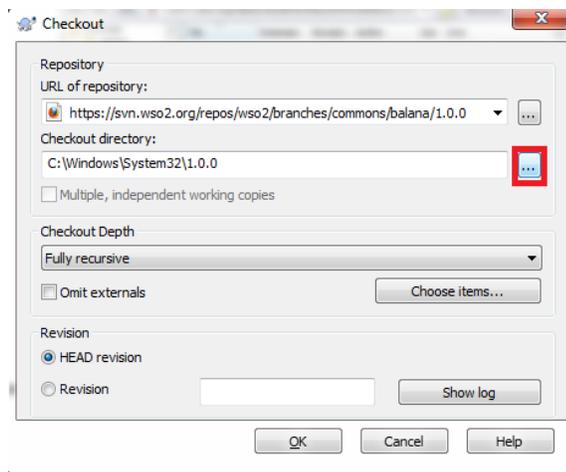


9. It should take around a minute before displaying the complete contents of the repository.

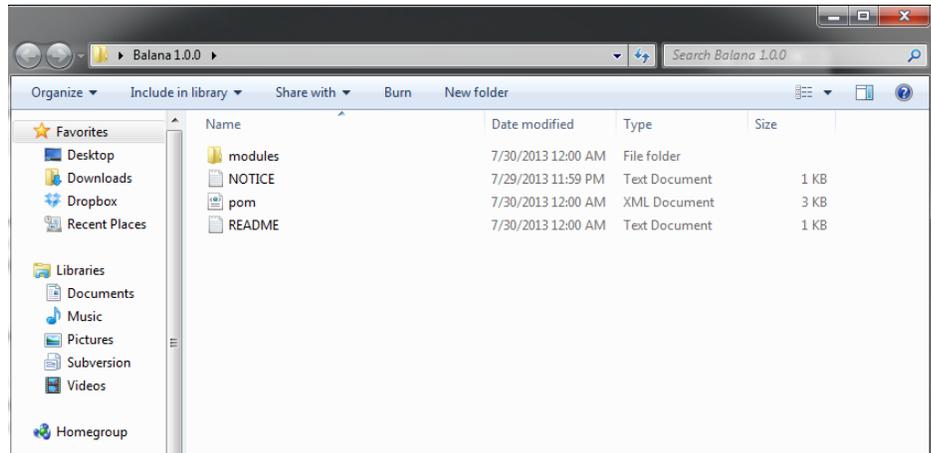
10. Right click the folder 1.0.0 in the explorer and select "Check Out" from the drop down menu:



11. Browse to the folder where you want to keep the balana folder, by clicking on the browse icon:



12. For the tutorial we will use “Balana 1.0.0” on Desktop, press OK keeping all other options default.
13. Once the transfer is complete close the Tortoise SVN Repository browser.
14. The newly created balana folder should look like:



Configuring Apache Maven:

Balana 1.0.0 uses Maven’s repository for making the built process simpler. For creating eclipse project, we need to have maven configured on our machine.

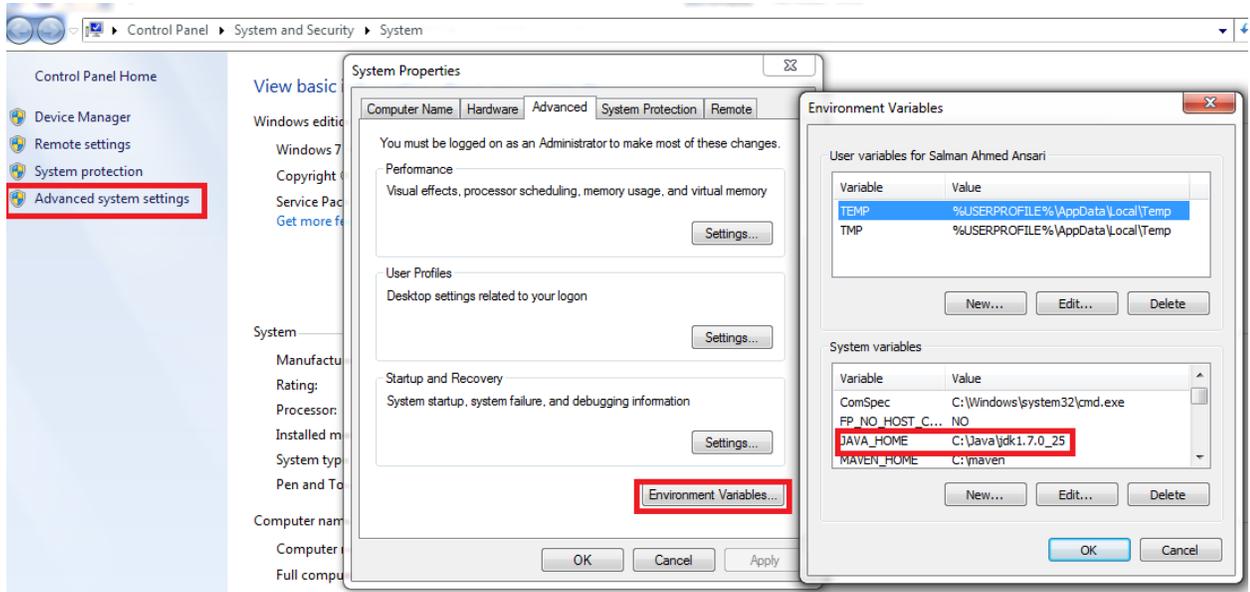
1. For maven to work, jdk version 1.6 or higher must be installed on the system.
2. Check the jdk version by writing “java -version” in cmd.

```
C:\Windows\system32\cmd.exe
Microsoft Windows [Version 6.1.7601]
Copyright (c) 2009 Microsoft Corporation. All rights reserved.

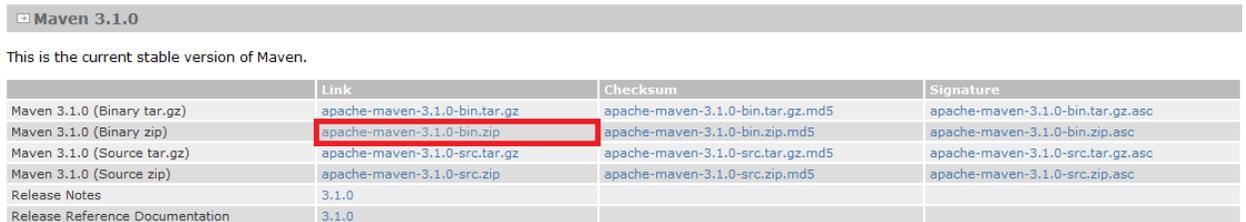
C:\Users\Salman Ahmed Ansari> java -version
java version "1.7.0_25"
Java(TM) SE runtime environment (build 1.7.0_25-b17)
Java HotSpot(TM) 64-Bit Server VM (build 23.25-b01, mixed mode)

C:\Users\Salman Ahmed Ansari>
```

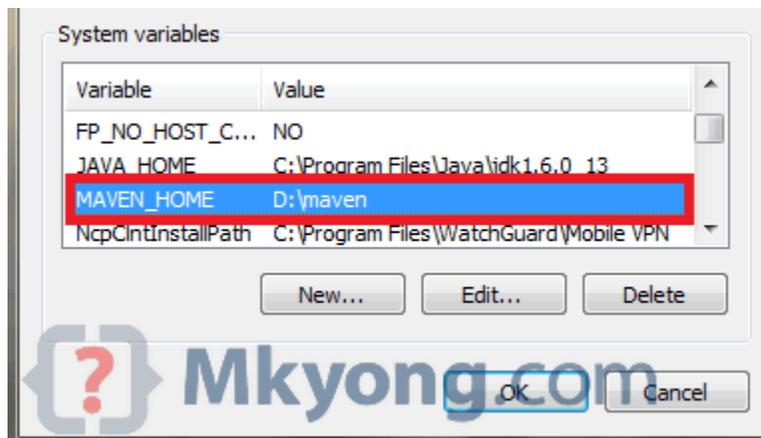
- Right click on the “My Computer” and open the properties, select “Advanced System Settings” and then “Environment Variables” to make sure JAVA_HOME is added in the variables and it is pointing to the location where java is installed in the system



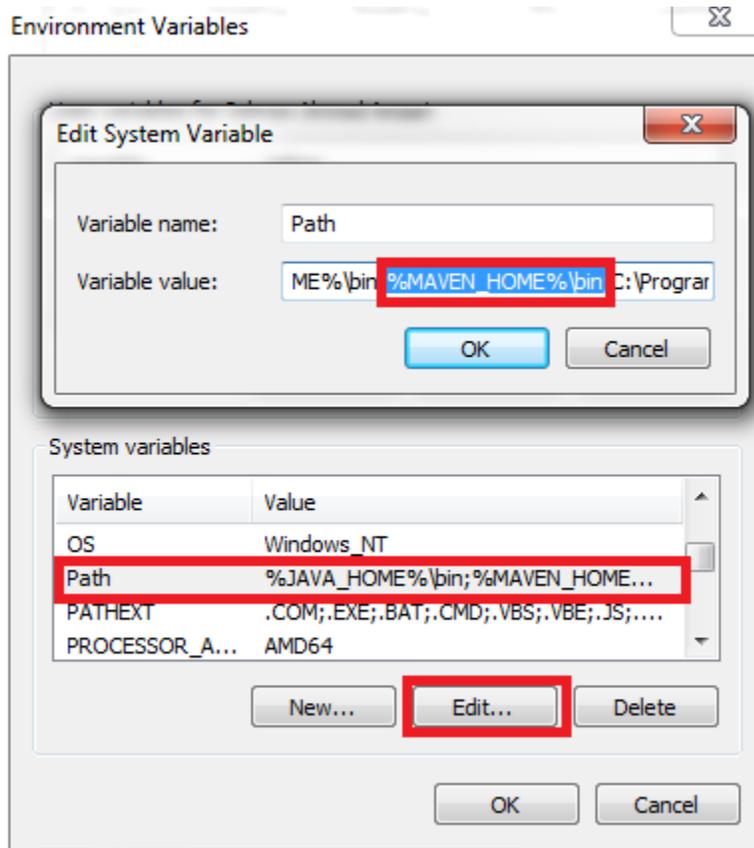
- Go to the official site of apache Maven and download the zip file:



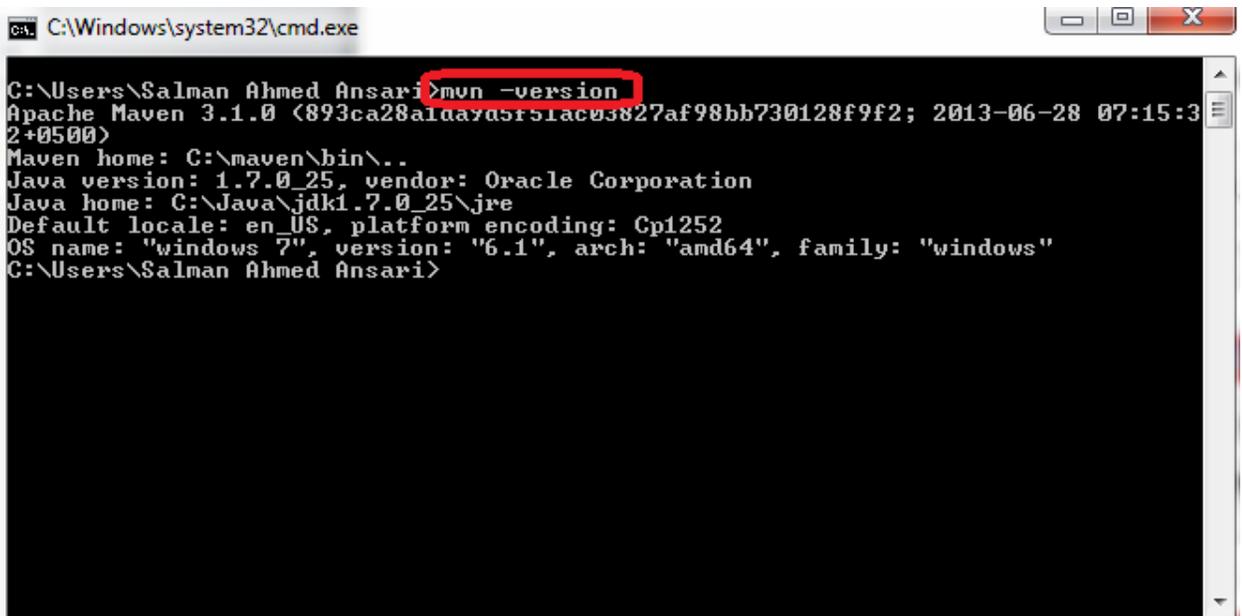
- Extract this file anywhere on the disk, for the tutorial we will extract it in D drive and rename the folder, D:/Maven.
- Add the new MAVEN_HOME in the environment variable and point it to the Maven folder:



- Update the Path variable in System variables by adding, %MAVEN_HOME%\bin in it:

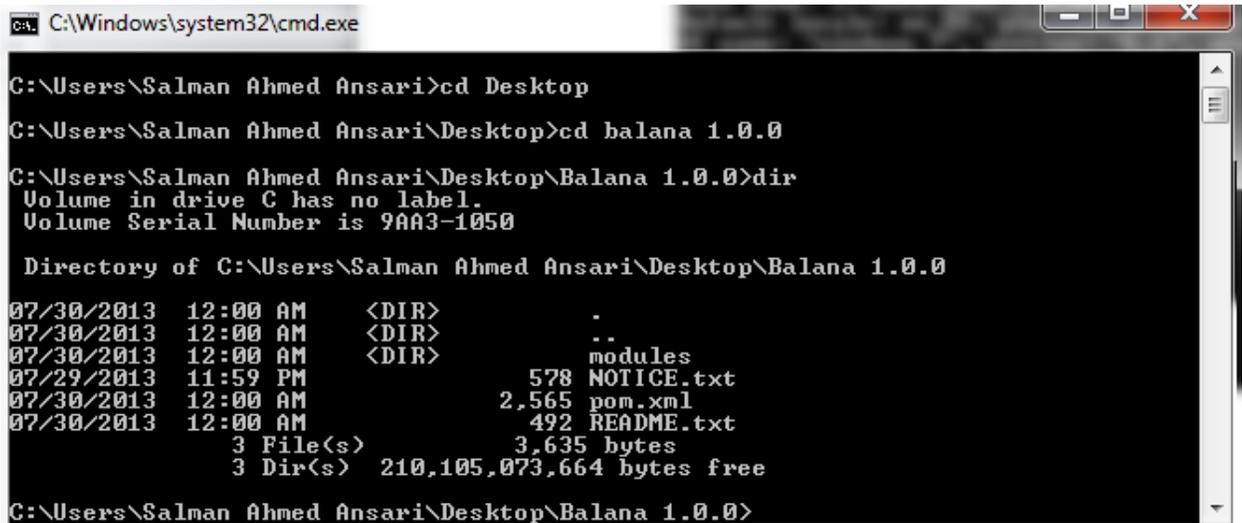


- Maven is configured in the system, to verify write `mvn -version` in cmd, it should return the version of maven:



Creating eclipse project from maven project:

1. Run cmd and Navigate to the Balana's folder, for the tutorial it was Desktop>Balana 1.0.0:



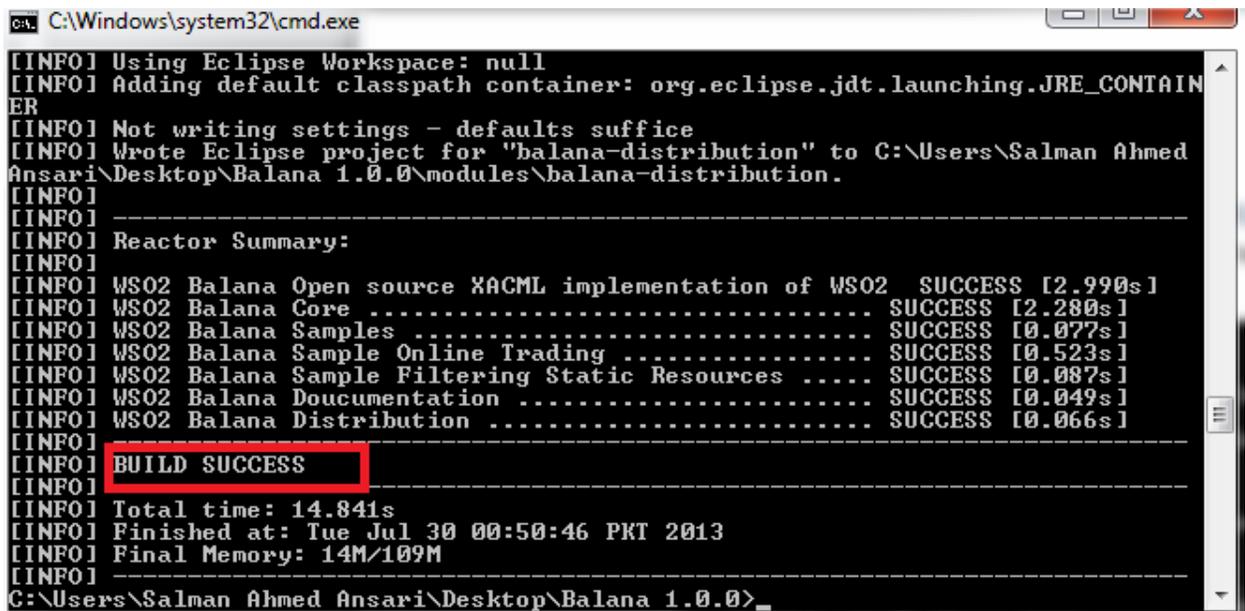
```
C:\Windows\system32\cmd.exe

C:\Users\Salman Ahmed Ansari>cd Desktop
C:\Users\Salman Ahmed Ansari\Desktop>cd balana 1.0.0
C:\Users\Salman Ahmed Ansari\Desktop\Balana 1.0.0>dir
Volume in drive C has no label.
Volume Serial Number is 9AA3-1050

Directory of C:\Users\Salman Ahmed Ansari\Desktop\Balana 1.0.0
07/30/2013  12:00 AM    <DIR>          .
07/30/2013  12:00 AM    <DIR>          ..
07/30/2013  12:00 AM    <DIR>          modules
07/29/2013  11:59 PM             578 NOTICE.txt
07/30/2013  12:00 AM          2,565 pom.xml
07/30/2013  12:00 AM          492 README.txt
               3 File(s)              3,635 bytes
               3 Dir(s)  210,105,073,664 bytes free

C:\Users\Salman Ahmed Ansari\Desktop\Balana 1.0.0>
```

2. Write "mvn eclipse:eclipse", command to generate required files needed to import this project in eclipse.
3. It will connect to the maven repository and built the project, after completion it should show, built successful:

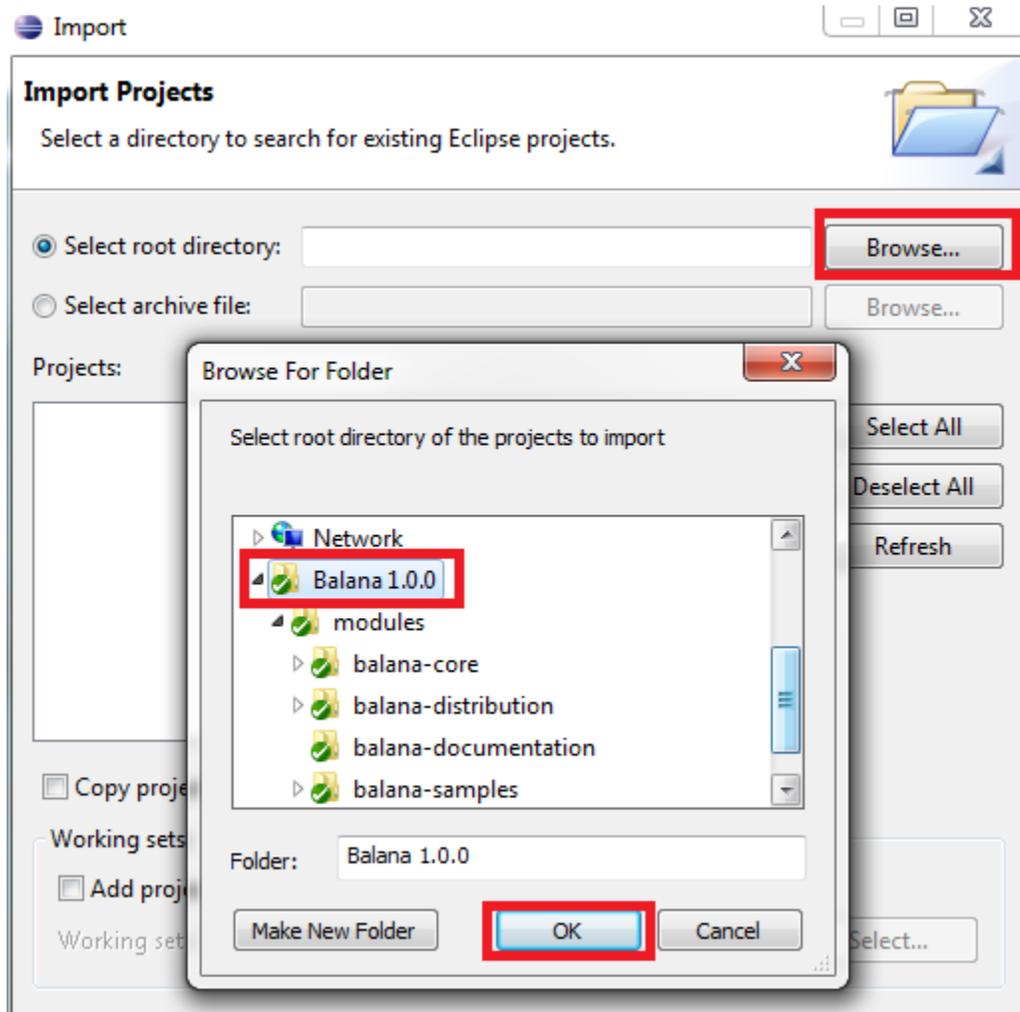


```
C:\Windows\system32\cmd.exe

[INFO] Using Eclipse Workspace: null
[INFO] Adding default classpath container: org.eclipse.jdt.launching.JRE_CONTAINER
[INFO] Not writing settings - defaults suffice
[INFO] Wrote Eclipse project for "balana-distribution" to C:\Users\Salman Ahmed
Ansari\Desktop\Balana 1.0.0\modules\balana-distribution.
[INFO]
[INFO] -----
[INFO] Reactor Summary:
[INFO]
[INFO] WS02 Balana Open source XACML implementation of WS02 SUCCESS [2.990s]
[INFO] WS02 Balana Core ..... SUCCESS [2.280s]
[INFO] WS02 Balana Samples ..... SUCCESS [0.077s]
[INFO] WS02 Balana Sample Online Trading ..... SUCCESS [0.523s]
[INFO] WS02 Balana Sample Filtering Static Resources ..... SUCCESS [0.087s]
[INFO] WS02 Balana Documentation ..... SUCCESS [0.049s]
[INFO] WS02 Balana Distribution ..... SUCCESS [0.066s]
[INFO]
[INFO] BUILD SUCCESS
[INFO]
[INFO] -----
[INFO] Total time: 14.841s
[INFO] Finished at: Tue Jul 30 00:50:46 PKT 2013
[INFO] Final Memory: 14M/109M
[INFO]
C:\Users\Salman Ahmed Ansari\Desktop\Balana 1.0.0>
```

Importing Project into Eclipse:

1. Run the eclipse.
2. Click file>import and from the pop up window, select General>Existing Project into Workspace and click Next.
3. Browse to the balana directory, and click OK:



4. The projects will be imported into the workspace.