

[Main.plugin-tutorial1-p7](#)

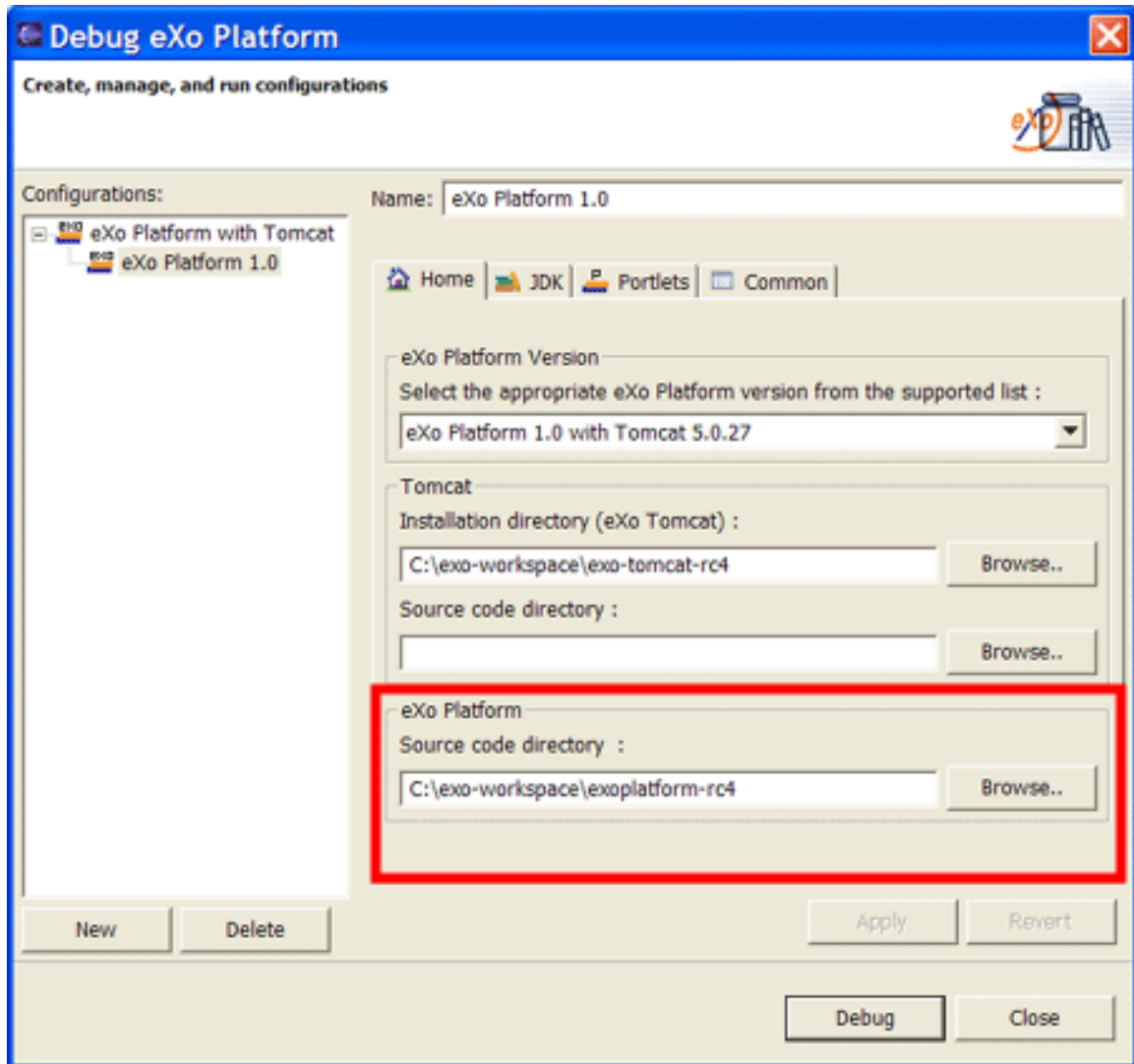
Tutorial: Create Your First Portlet Using eXo Platform Eclipse Plugin

Part 7: Debugging the portlet

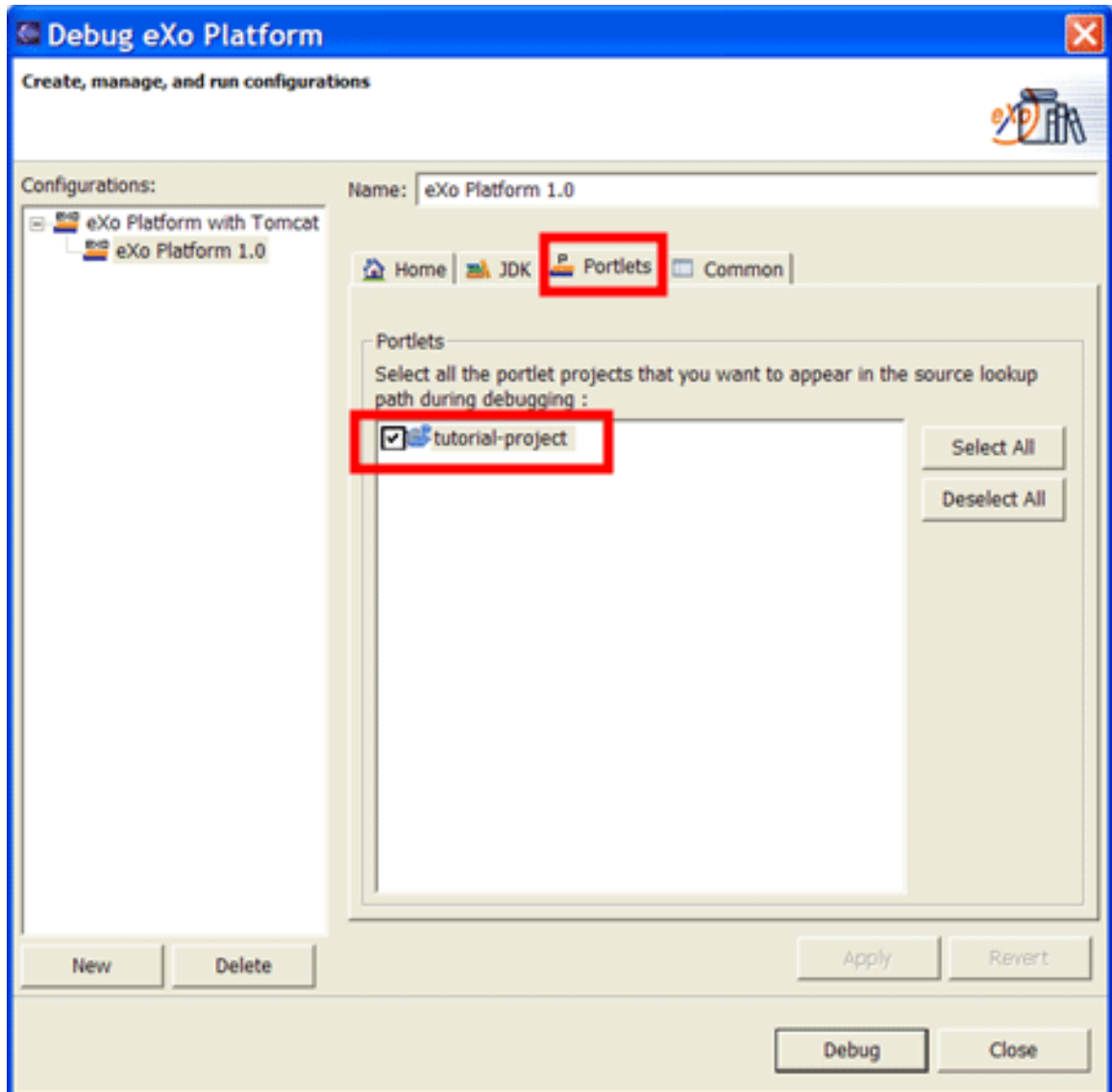
- Lets stop eXo Platform using Ctrl+Shift+F12 or by clicking on the 'Stop eXo Platform' button on the toolbar.



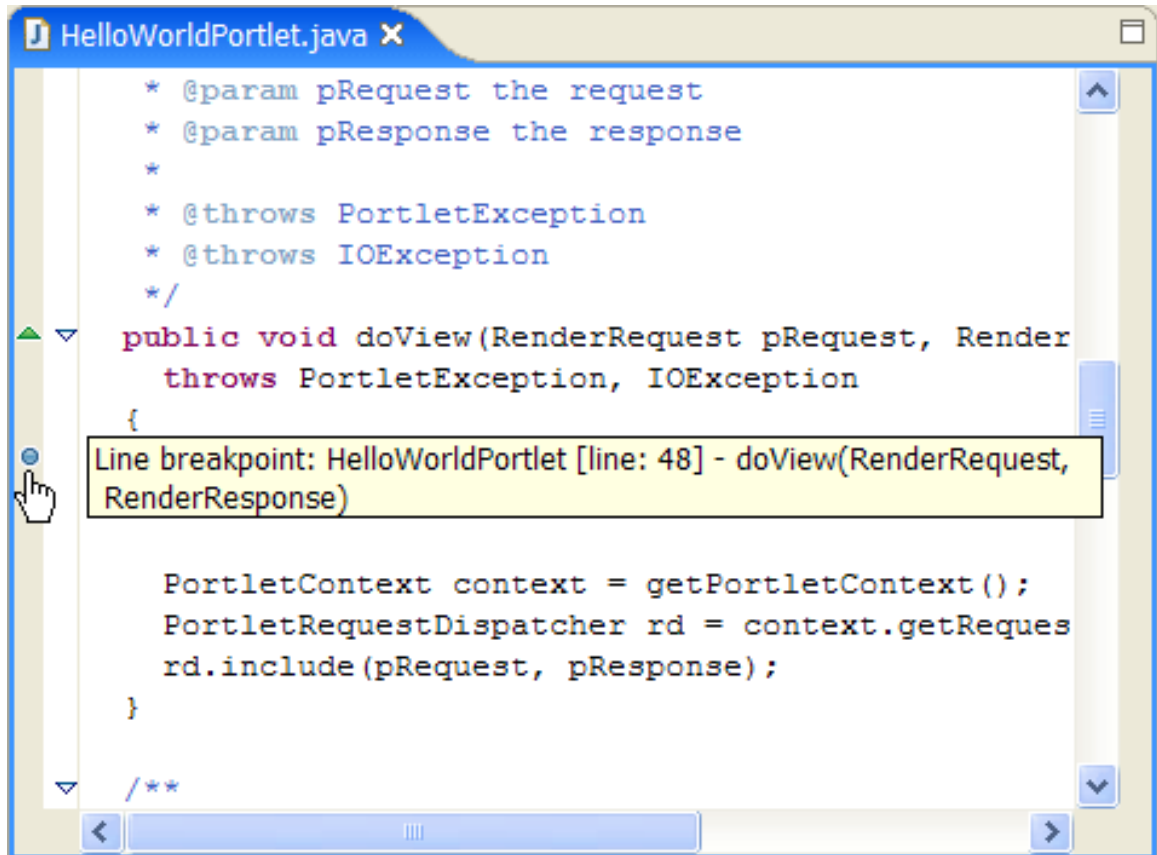
- Now that we can start/stop eXo Platform via Eclipse, we are on our way to debug the portlet. If you want to be able to view the source code of eXo Platform while debugging, then you need to [download](#) the source code, but you don't have to compile it. For release 1.0 RC4, the source code file is named exoplatform-src-1.0-RC4.zip.
- Once you are done downloading and unzipping the eXo Platform source code. Go to the eXo Platform launch configuration, and fill the 'eXo Platform Source code directory' field.



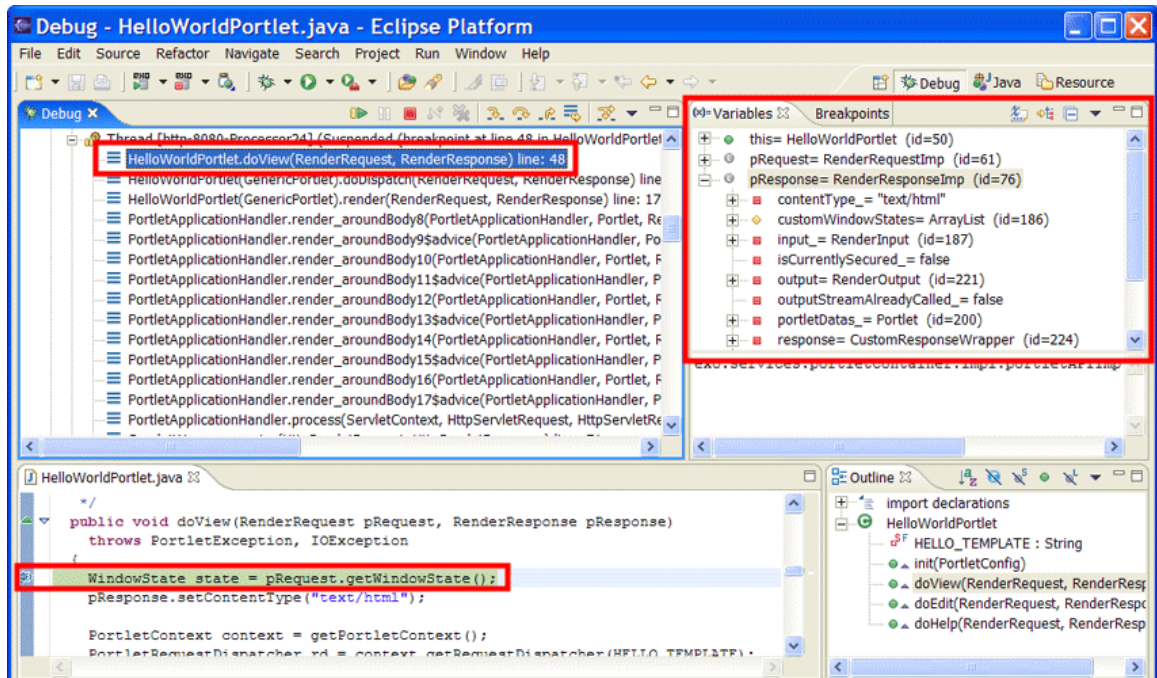
- Click on the 'Portlets' tab, and select the portlets project that we previously created (named 'tutorial-project'). Once done, you can go ahead and click on the Debug button to start eXo Platform again.



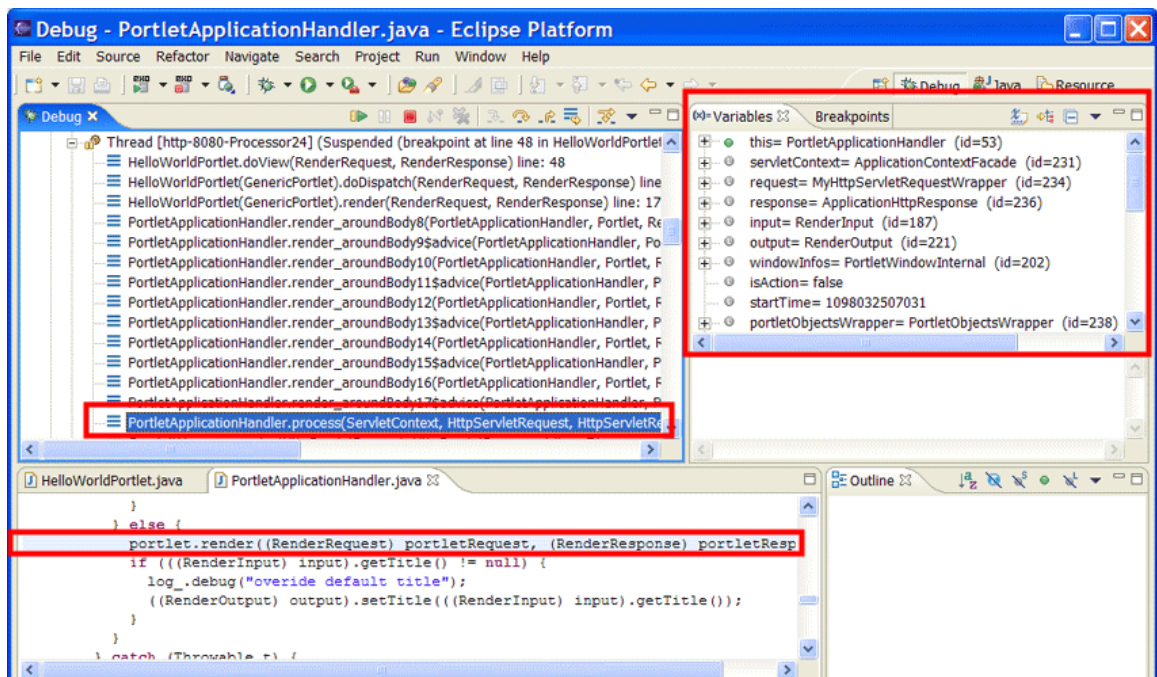
- Next, we will create a breakpoint at the *doView()* method. Open *HelloWorldPortlet.java* using the java editor, and double click on the left margin next to the *doView()* method, a small blue circle appears.



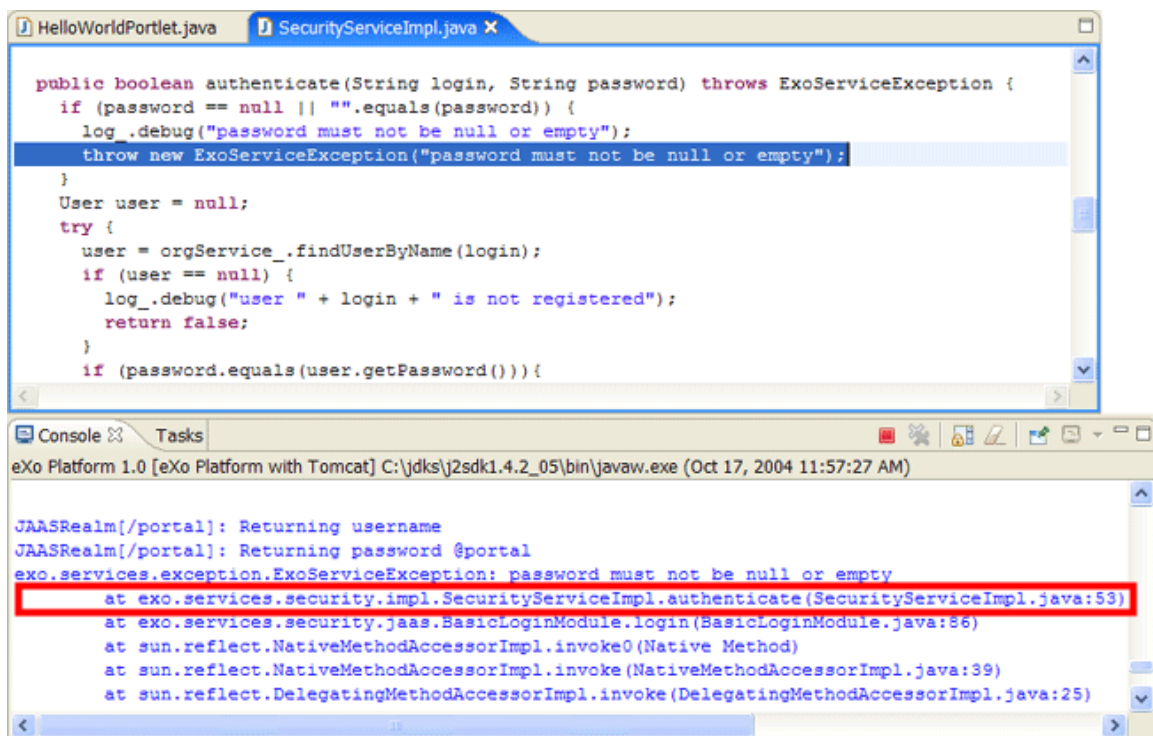
- Go to <http://localhost:8080/portal/>
- The portal will try to render your portlet, but Eclipse will suspend the thread execution, because we have a breakpoint there. Go back to Eclipse, and you will see the highlighted first statement of the `doView()` method. In the 'Variables' view, you will see the local and instance variables coming from the current execution stack.



- Since you added the eXo Platform source code to the eXo Platform launch configuration, you can now see the code while debugging. For example, if you click on the 'PortletApplicationHandler.process(...)' in the 'Debug' view, the java editor will open the PortletApplicationHandler.java file for you and highlight the statement. In the 'Variables' view, you will see the local and instance variables coming from this execution stack.



- As the case with any debugging session in Eclipse. Use F8 to resume execution, or use F6 to step over, or use F5 to step into.
- So for now lets resume exceution using F8.
- Another feature that you might find useful is the fact that you can click on an exception stack in the 'Console' view, and the corresponding file will open in the java editor. Here is an example:
 - If you still have the browser showing the eXo Platform portal, logout and close the browser.
 - Go to <http://localhost:8080/portal/faces/private/anonymous>
 - Because you are trying to view a private area without a password, an exception is generated and you can see it the 'Console' view.
 - In the 'Console' view, find the line that says *'exo.services.exception.ExoServiceException: password must not be null or empty'*, and click on the *'at exo.services.security.impl.SecurityServiceImpl.authenticate(...)'* line. This will open the SecurityServiceImpl.java class for you.



- Congratulations!! You have completed the tutorial. We hope that you found it

to be useful. If you want you can go back to the [main page](#) for this tutorial.

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