

# Web project with eclipse, JBOSS application serv and the jboss IDE

This Tutorial explains the creation and deployment of web project to jboss. We use the free eclipse plugin „JBOSS IDE“.

## Generals

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<http://www.laliluna.de/tutorials.html> – Tutorials für Struts, EJB, Hibernate, xdoclet and eclipse.

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### Software:

Eclipse 3.0  
Jboss IDE 1.4  
Jboss Server 3.2.5

### PDF Version of the Tutorial

<http://www.laliluna.de/assets/tutorials/webprojects-eclipse-jbosside-en.pdf>

## Software

The following software packages must be downloaded.

- Eclipse SDK 3.0  
<http://www.eclipse.org/downloads/index.php>
- Jboss IDE 1.4.0  
<http://www.jboss.org/products/jbosside>
- Jboss Server 3.2.5  
<http://www.jboss.org>

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## Installation of eclipse

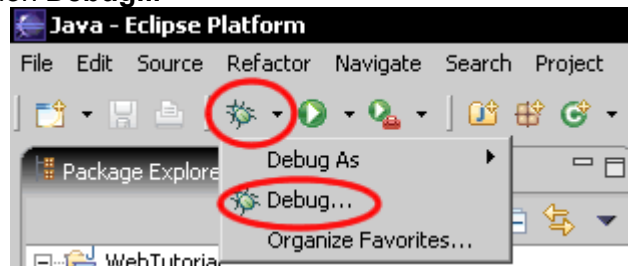
The installation of Eclipse is done with the unpacking of the archive file.  
(It is advisable to put a link of the **eclipse.exe** to your desktop or your startmenu)

## Installation of the jboss IDE

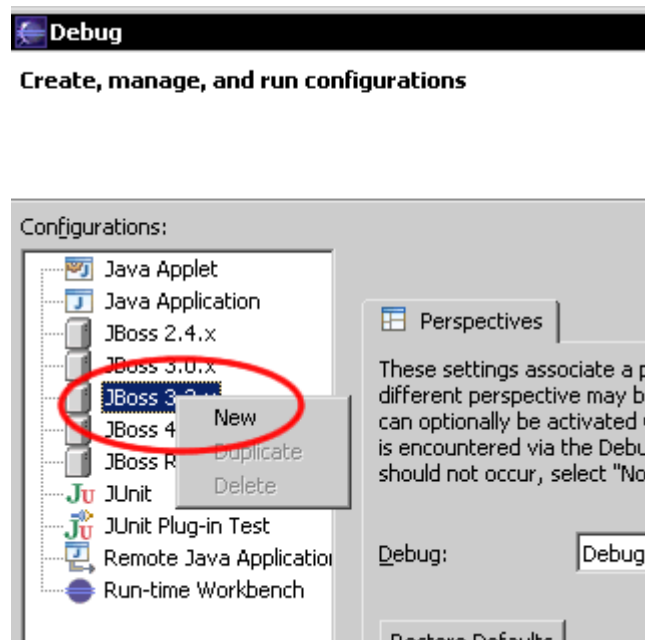
Extract the archiv file of the jboss IDE and copy the two included folders **features** and **plugins** in the folder of eclipse

## Configuration of jboss IDE

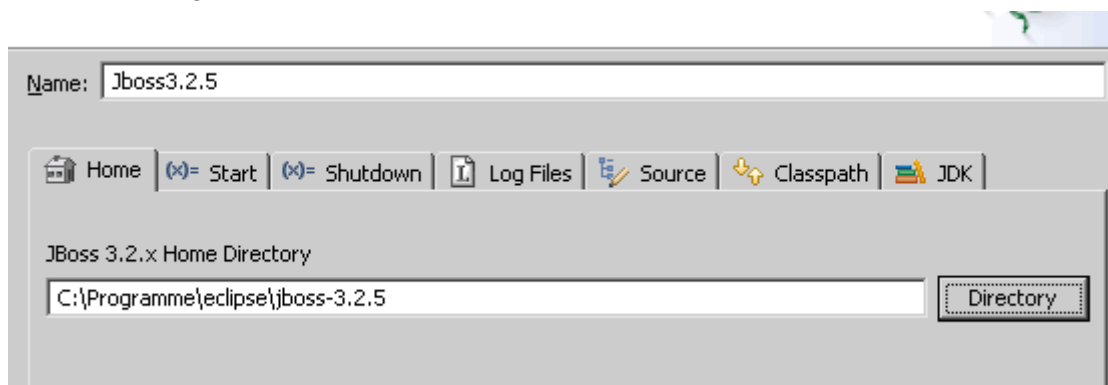
Restart / Start eclipse. You will find the following symbol in the menubar. Choose the menu option **Debug...**



In the configurations, click with the right mouse button on Jboss Server Version (Jboss 3.2.x) and choose **New**.

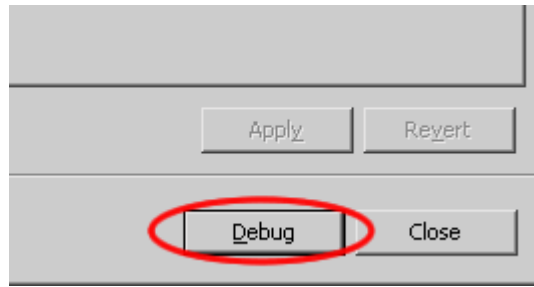


Set a name for this configuration and set the home directory of the jboss server. Press the **Apply** button to save the settings.

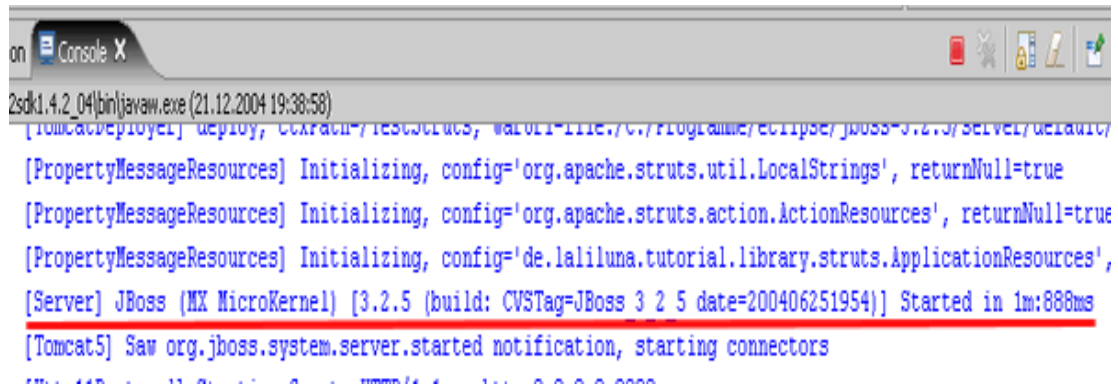


## Testing the settings

To be sure that the entered settings are correct, we will start the jboss in the debug mode. Click on the button **Debug** in the dialog window.



The console shows the following.



```
2sdk1.4.2_04(bin)javaw.exe (21.12.2004 19:38:58)
[TomcatDeployer] deploy, ctxPath=/resources, warUrl=file:/C:/Programme/eclipse/jboss-3.2.3/server/default/
[PropertyMessageResources] Initializing, config='org.apache.struts.util.LocalStrings', returnNull=true
[PropertyMessageResources] Initializing, config='org.apache.struts.action.ActionResources', returnNull=true
[PropertyMessageResources] Initializing, config='de.laliluna.tutorial.library.struts.ApplicationResources',
[Server] JBoss (MX MicroKernel) [3.2.5 (build: CVSTag=JBoss 3 2 5 date=200406251954)] Started in 1m:886ms
[Tomcat5] Saw org.jboss.system.server.started notification, starting connectors
```

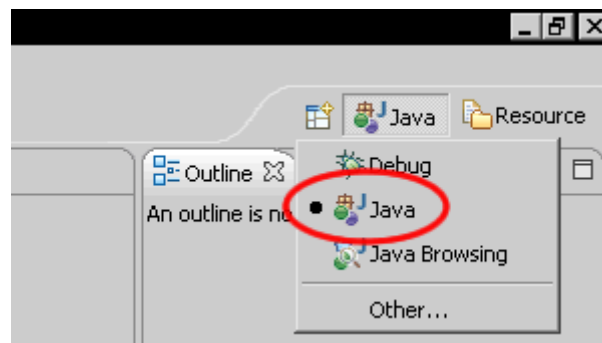
## Stop the jboss server

Right mouse button on the console and choose the option **Terminate** or click on the terminate symbol in the menu bar of the console.

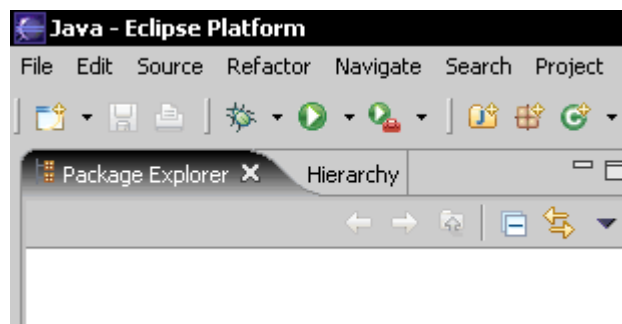


## Create a web project

First choose the **Java** perspective.

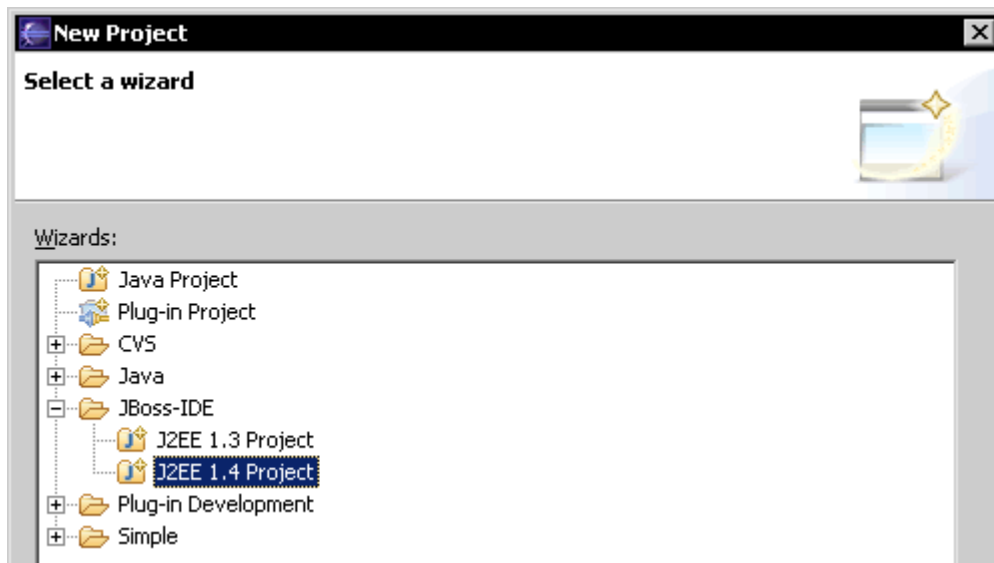


Now the package explorer should be on the left site of eclipse.

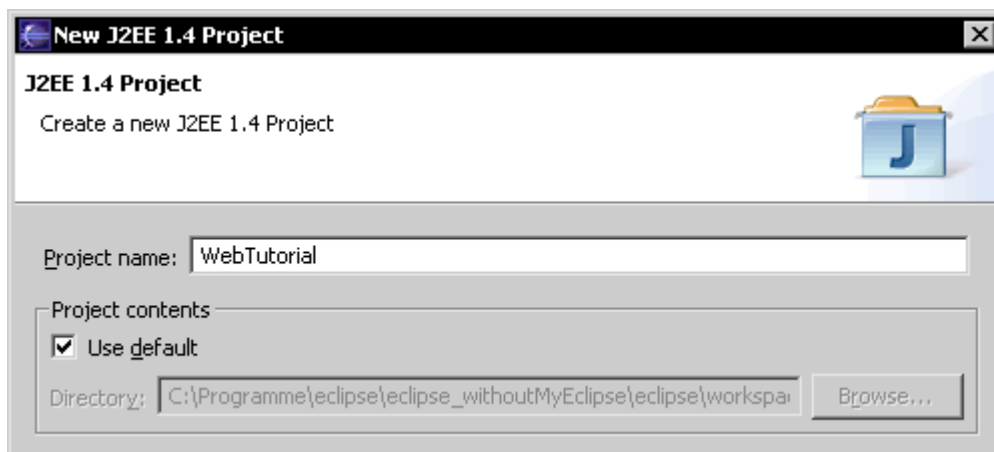


Create a new project > **File > New > Project** or in the package explorer right mouse button > **New > Project**.

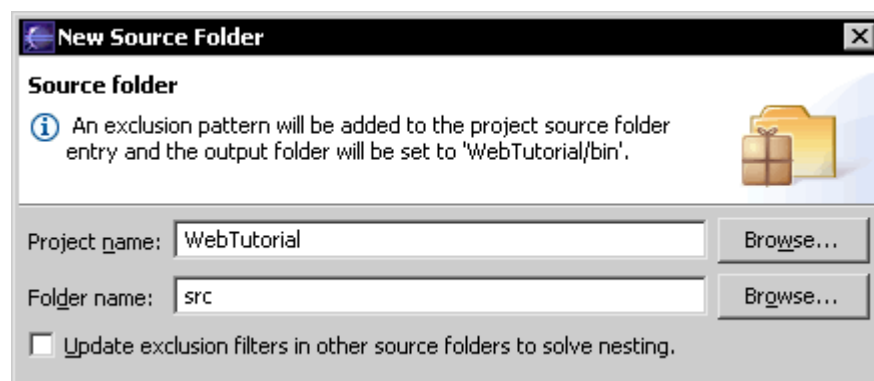
Choose on **JbossIDE** the option > **J2EE 1.4 Project**.



Set the project name to **WebTutorial**.

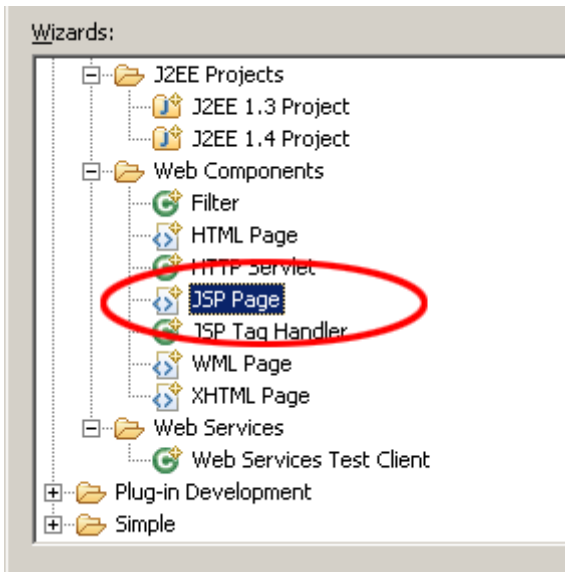


Create a new source folder and set the name to **src**. In the package explorer right mouse button on the project > **New > Source Folder**.



## Dummy index page

Create a index.jsp in the directory WebRoot.  
Press Strg+n and choose JSP.



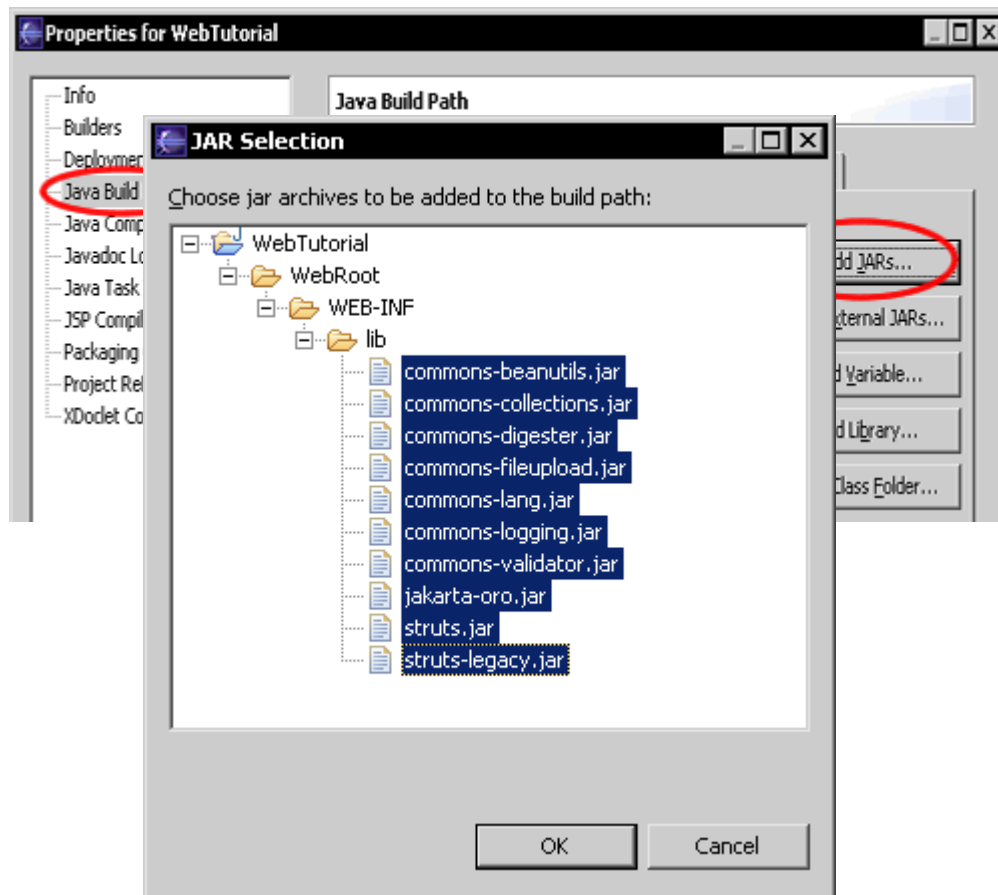
Change the JSP file:

```
<%@page contentType="text/html" %>
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
<html>

<head>
    <title>JSP Page</title>\n\
</head>

<body bgcolor="#FFFFFF">
Welcome to your programm
</body>

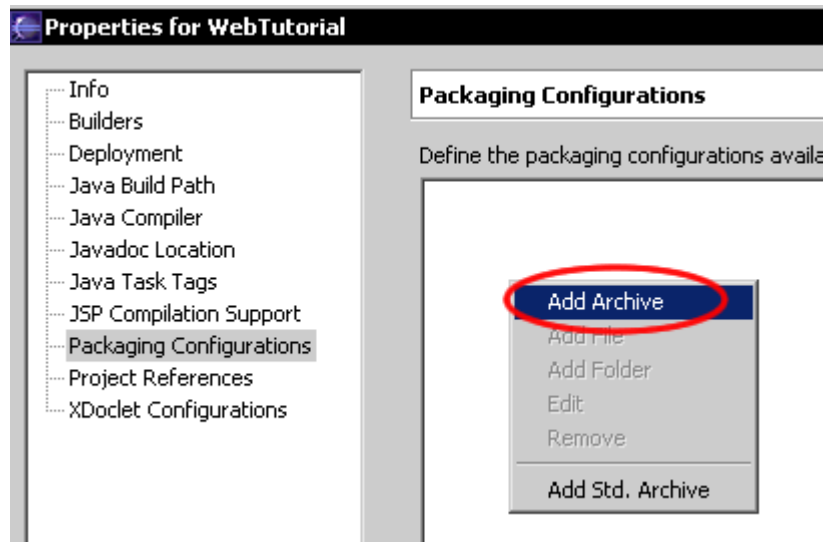
</html>
```



## Configuration for packaging

The jboss IDE includes an option to build a package from the source project that can be deployed (transferred to the jboss server) later.

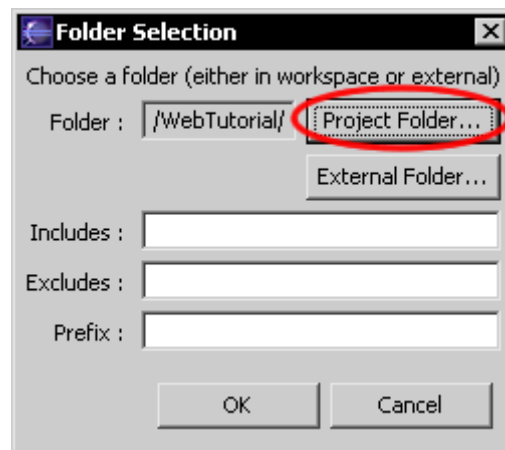
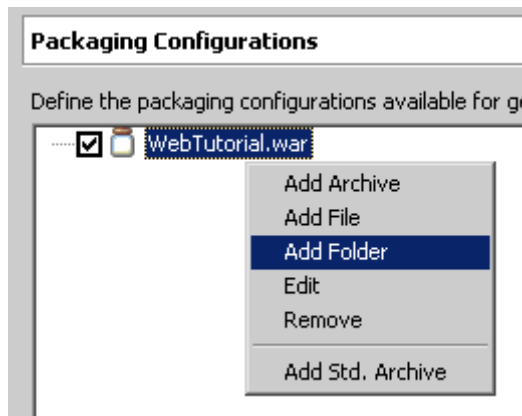
Open the project properties and in the right window choose the option **Packaging Configuration**.



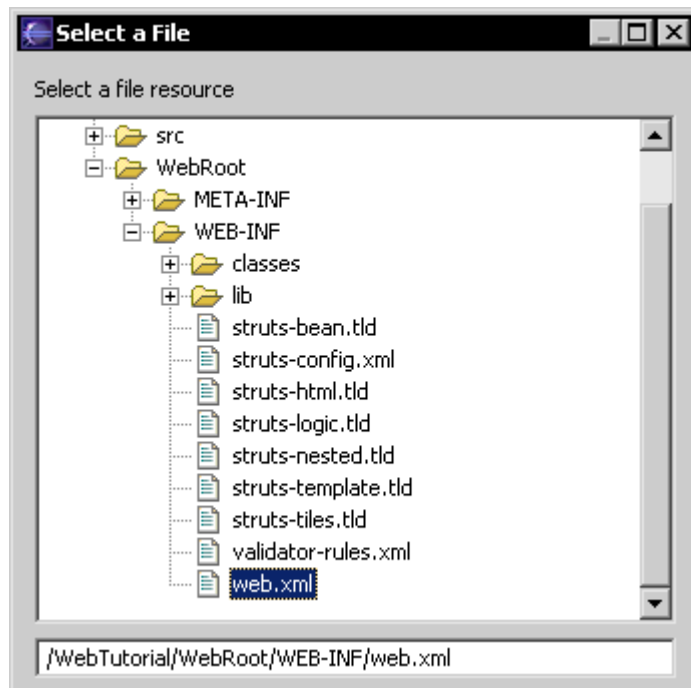
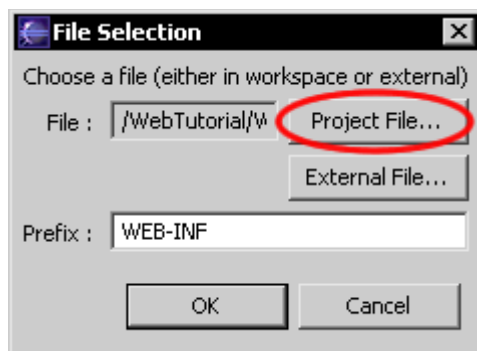
Set the name of the archiv (recommended is the same as the project name).



Add the two folders **bin** and **WebRoot** to the archiv.  
 Right mouse button on the archiv > **Add Folder**.

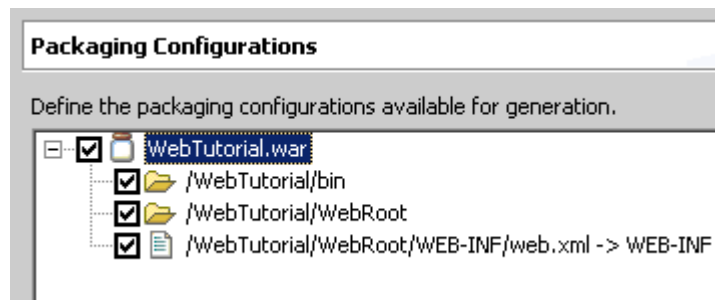


In the next step add the **web.xml** file of the directory **/WebTutorial/WebRoot/WEB-INF/**.  
 Right mouse button on the archiv. In the context menu select **Add File**. Later the **web.xml** must be placed in the folder WEB-INF of the war-archiv, so set the prefix to **WEB-INF**.



After this the following elements can be found in the archiv.



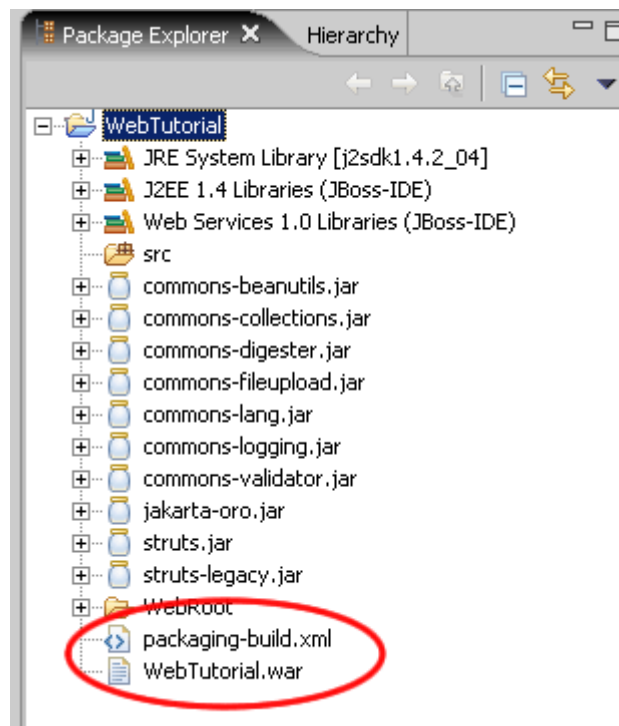


## Run the packaging process

In the package explorer click with the right mouse button on the project and choose **Run Packaging**, in order to build a war archiv from the source project. The following output will be found in the console.

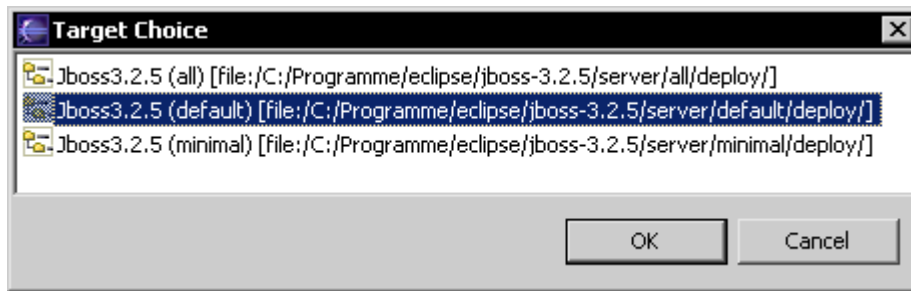
```
Problems Javadoc Declaration Console X
<terminated> C:\j2sdk1.4.2_04\bin\javaw.exe (21.12.2004 23:04:12)
Buildfile: C:\Programme\eclipse\eclipse_withoutMyEclipse\eclipse\workspace\WebTutorial\packaging-build.xml
N10004:
    [jar] Building jar: C:\Programme\eclipse\eclipse_withoutMyEclipse\eclipse\workspace\WebTutorial\WebTutorial.war
packaging_generation_
BUILD SUCCESSFUL
Total time: 5 seconds
```

The war archiv is created in the project.

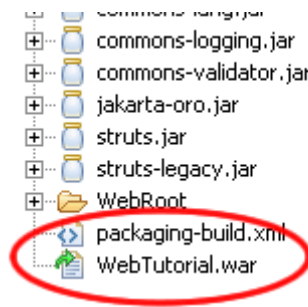


## Deployment of the project.

Click with the right mouse button on the war archiv file and choose **Deployment > Deploy to...** from the context menu. Select the default deployment folder as **Target Choise**.

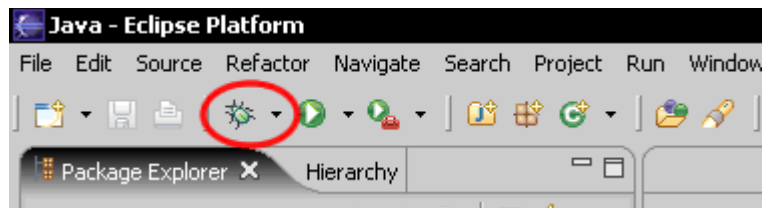


A small green arrow on the archive file shows that the file was deployed.



## Start the jboss server

In order to run the jboss server, click on the debug symbol in the menu bar of eclipse.



Congratulations. You have increased your knowledge once again.