



# JBoss-IDE

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*Full Eclipse integration for  
JBoss development*

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# Überblick

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- JBoss-IDE is a project which aims to provide a world class IDE for JBoss, based on a full integration with [Eclipse](#).
- The current version of JBoss-IDE is the **1.2.3**



# Entwicklung von JbossIDE

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- The JBoss-IDE started with an XDoclet plug-in for eclipse in the middle of 2002
- Then Hans Dockter (lead architect of the JBoss IDE) met Marc Fleury (lead architect of the JBoss Project) and they talked about the possibility of developing a JBoss-IDE.



# Eigenschaften von JBossIDE

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- JBoss-IDE plugin is easy to install, update, and use.
- It features :
  - A very comfortable and sophisticated support for Xdoclet.
  - The debugging and monitoring of JBoss servers and the controlling of their life cycles.
  - An easy way to configure the packaging layout of archives (packed or exploded)
  - A simple way to deploy the packaged and/or exploded archive to a JBoss server

Better than other plugins( lomboz(open source) ,  
EASIEJBoss (von Genuitec ))?



# Installation von JbossIDE

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- It is done by hand the first time and then, Eclipse can check whether updates are available, download them and install them.
- *Example with Eclipse 2.1.x*
  1. Click Help—>Software Updates—>Update Manager.
  2. In the Feature Updates view, right click and select New—>Site Bookmark.
  3. Select an unused name for the bookmark and then set the bookmark at <http://jboss.sourceforge.net/jbosside/updates>.
  4. Expand the bookmark that was added and select JBoss-IDE 1.0/Eclipse 2.1.
  5. You should now see the available versions of the plugin. Select the latest version.
  6. You will be prompted to restart Eclipse.

# Installation von JbossIDE

The screenshot displays the Eclipse Platform Install/Update dialog box. The window title is "Install/Update - Eclipse Platform". The menu bar includes "File", "Edit", "Navigate", "Search", "Project", "Run", "Window", and "Help". The toolbar contains various icons for navigation and actions.

The left pane shows the "Install Configuration" view with a tree structure:

- Install Configuration
  - Eclipse Platform
  - Configuration History
  - Saved Configurations

Below this is the "Feature Updates" view, which shows a tree of available updates:

- Feature Updates
  - Sites to Visit
  - Available Updates
  - My Computer
  - JBoss-IDE
    - JBoss-IDE 1.0/Eclipse 2.1
      - JBossIDE 1.0.1
      - JBossIDE 1.0.2
      - JBossIDE 1.0.3
      - JBossIDE 1.1.0
      - JBoss-IDE 1.2.0
      - JBoss-IDE 1.2.1
      - JBoss-IDE 1.2.2**
    - JBoss-IDE 1.0/Eclipse 3.0

The right pane shows the "Preview" view for the selected update, "JBoss-IDE". The details are as follows:

- Provider:** JBoss Team
- Version:** 1.2.2
- Installed Version:** 1.2.2
- Download Size:** 0 KB
- Estimate Download Time:** 0 Hours 50535 minutes
- Supported Platforms:** (Expandable section)
- Description:** Select 'More Info'
- [More Info](#) [License](#)

A large image of a rocket launching in space is displayed on the right side of the preview pane. The rocket has "JBoss" written on its side, and the text "JBoss-IDE" is visible at the bottom of the image.



# Konfiguration des Servers

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- ***Adding the Shortcuts to the Top Menu***(set of buttons to start, stop, and terminate a server, as well as view the server console and log files)
  
- ***Example with Eclipse 2.1.x***
  1. Right click on the top toolbar.
  2. Select Customize Perspective.
  3. Expand Other.
  4. Check Default Server.
  5. Click OK.



# Konfiguration des Servers

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- ***Create a Debug Configuration*** (Running JBoss in a Debug Configuration allows you to set and use breakpoints in your server code).
  
- ***Example with Eclipse 2.1.x***
  1. Go to Run—>Debug(you should see several new "JBoss" Configurations in the left pane)
  2. Click on the one that matches the version of JBoss that you are running
  3. click New to create a new instance of your JBoss configuration
  4. Give your configuration a name and point it to the home directory for your JBoss server
  5. Click on Close and then go to Window—>Preferences—>JBoss IDE—>Launcher

# Konfiguration des Servers

The image shows two overlapping dialog boxes in the Eclipse IDE. The 'Debug' dialog is on the left, and the 'Preferences' dialog is on the right.

**Debug Dialog:** Titled 'Create, manage, and run configurations'. The 'Configurations:' list on the left includes 'Java Applet', 'Java Application', 'JBoss 2.4.x', 'JBoss 3.0.x', 'JBoss 3.2.x', 'JBoss 3.2.3' (selected), 'JBoss Remote', 'JUnit', 'JUnit Plug-in Test', 'Remote Java Application', and 'Run-time Workbench'. The 'Name:' field contains 'JBoss 3.2.3'. The 'JBoss 3.x Home Directory' field contains 'C:\devtools\jboss-3.2.3'. Buttons at the bottom include 'New', 'Delete', 'Apply', 'Revert', 'Debug', and 'Close'.

**Preferences Dialog:** Titled 'Preferences'. The left sidebar shows a tree view with 'JBoss IDE' expanded to 'Launcher'. The right pane is titled 'Launcher' and shows 'Default Server' set to 'JBoss 3.2.x: JBoss 3.2.3'. Buttons at the bottom include 'Import...', 'Export...', 'Restore Defaults', 'Apply', 'OK', and 'Cancel'.

# Entwicklung eines EJB

**New Java Class**

Java Class  
Create a new Java class.

Source Folder: Tutorial/src Browse...

Package: tutorial.ejb Browse...

Enclosing type: Browse...

Name: FiboBean

Modifiers:  public  default  private  protected  
 abstract  final  static

Superclass: java.lang.Object Browse...

Interfaces: javax.ejb.SessionBean Add... Remove

Which method stubs would you like to create?

public static void main(String[] args)  
 Constructors from superclass  
 Inherited abstract methods

Finish Cancel

**Package Explorer**

Tutorial

- src
  - tutorial.ejb
    - FiboBean.java**
- JRE System Library [JDK 1.4.1]
- javax.servlet.jar
- jboss-j2ee.jar

# Entwicklung eines EJB

**Package Explorer**

- Tutorial
  - src
    - tutorial.ejb
      - FiboBean.java
  - JRE System Library [JDK 1.4.1]
  - javax.servlet.jar
  - jboss-j2ee.jar

```
package tutorial.ejb;

import java.rmi.RemoteException;

import javax.ejb.CreateException;
import javax.ejb.EJBException;
import javax.ejb.SessionBean;
import javax.ejb.SessionContext;

/**
 * @author John Doe
 */
@EJB
public class FiboBean {

    public void ejbActivate() throws EJBException, RemoteException {

    }

    public void ejbPassivate() throws EJBException, RemoteException {

    }
}
```

The `ejb.bean` tag provides information for the deployment process. It is one compulsory tag for all EJBs and is applicable for all types of beans differently for different types of beans.

# Entwicklung eines EJB

```
package tutorial.ejb;  
import java.rmi.RemoteException;  
import javax.ejb.EJBException;  
import javax.ejb.SessionBean;  
import javax.ejb.SessionContext;
```

```
/**
```

```
* @author Paul
```

```
*
```

```
* @ejb.bean name = "Fibo"
```

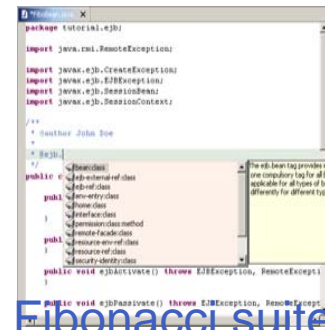
```
* display-name = "Fibo EJB"
```

```
* description = "EJB that computes Fibonacci suite"
```

```
* view-type = "remote"
```

```
* jndi-name = "ejb/tutorial/Fibo"
```

```
*/
```



```
package tutorial.ejb;  
import java.rmi.RemoteException;  
import javax.ejb.CreateException;  
import javax.ejb.EJBException;  
import javax.ejb.SessionBean;  
import javax.ejb.SessionContext;  
/**  
 * @author John Doe  
 */  
@EJB(  
    @ejb.bean(  
        name = "Fibo",  
        display-name = "Fibo EJB",  
        description = "EJB that computes Fibonacci suite",  
        view-type = "remote",  
        jndi-name = "ejb/tutorial/Fibo"  
    )  
)  
public class EJB implements SessionBean {  
    private SessionContext ctx;  
    private int i;  
    public void ejbCreate() throws EJBException, RemoteException {  
        i = 1;  
    }  
    public void ejbPassivate() throws EJBException, RemoteException {  
        i = 1;  
    }  
}
```

# Erzeugung von EJB Dateien

The image displays four sequential screenshots of the 'Properties for Tutorial' dialog box, illustrating the configuration of XDoclet for EJB file generation. Each window shows the 'XDoclet Configurations' section with the 'EJB' checkbox checked. The 'Property' and 'Value' table is updated in each step to reflect the configuration changes.

**Top-Left Screenshot:** Shows the 'EJB' checkbox checked. The 'Property' and 'Value' table is empty.

Property	Value
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**Top-Right Screenshot:** Shows the 'ejbdoclet' checkbox checked. The 'Property' and 'Value' table contains the following entries:

Property	Value
<input type="checkbox"/> addedTags	
<input checked="" type="checkbox"/> destDir	src
<input type="checkbox"/> elbClassNam...	
<input checked="" type="checkbox"/> elbSpec	2.0
<input type="checkbox"/> excludedTags	
<input type="checkbox"/> force	
<input type="checkbox"/> mergeDir	
<input type="checkbox"/> verbose	

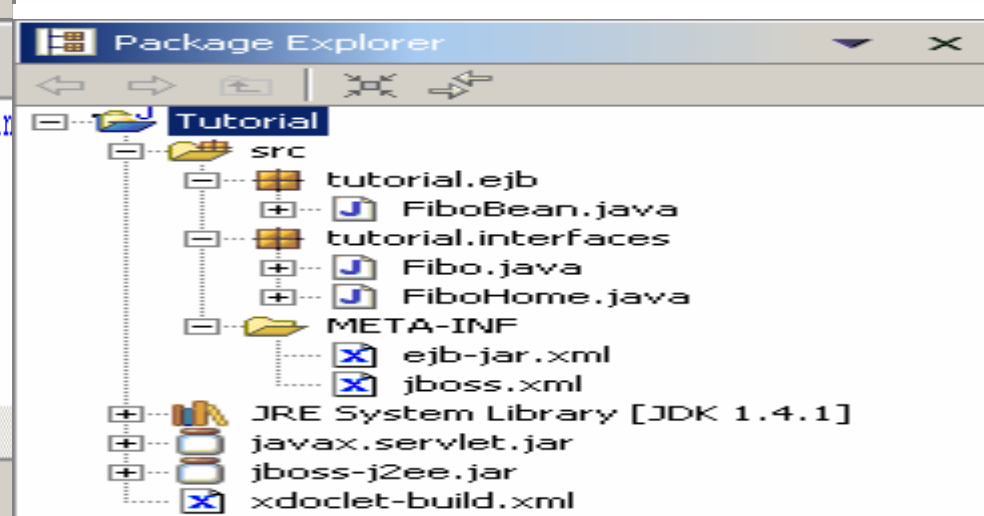
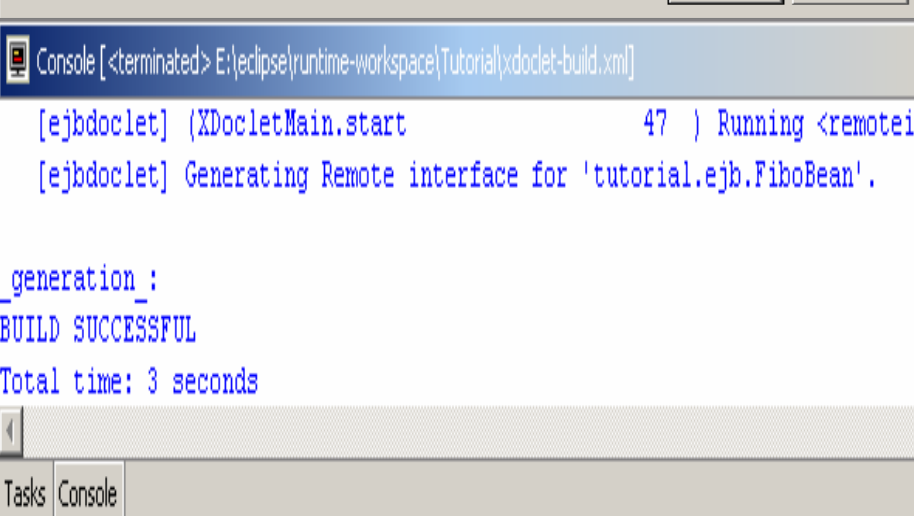
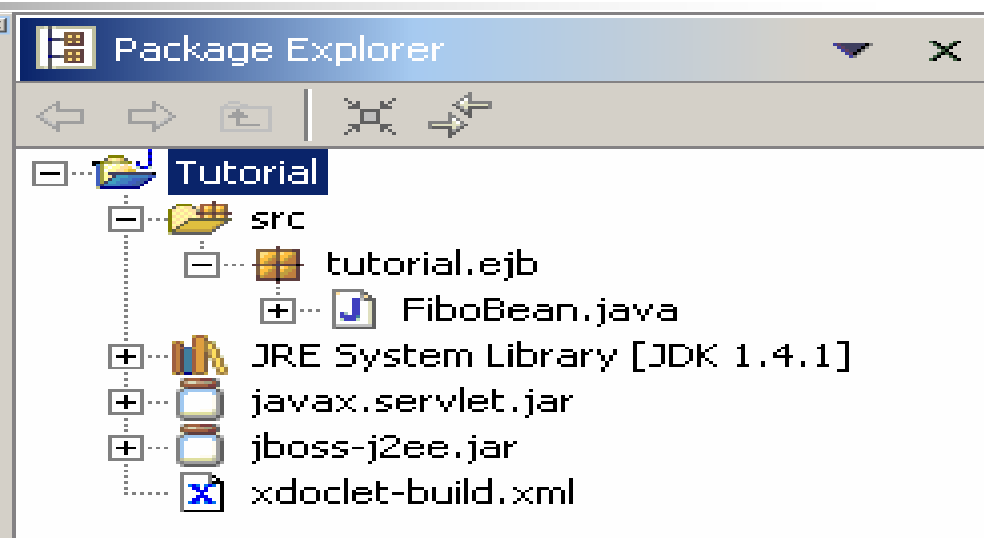
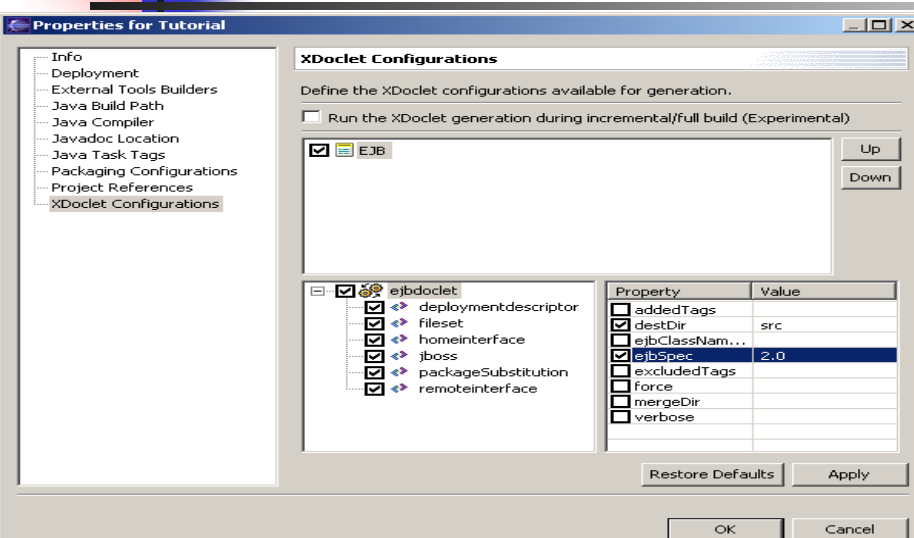
**Bottom-Left Screenshot:** Shows the 'ejbdoclet' checkbox checked and expanded. The 'fileset' sub-item is checked. The 'Property' and 'Value' table contains the following entries:

Property	Value
<input checked="" type="checkbox"/> dir	src
<input type="checkbox"/> excludes	
<input checked="" type="checkbox"/> includes	**/*.bean.java

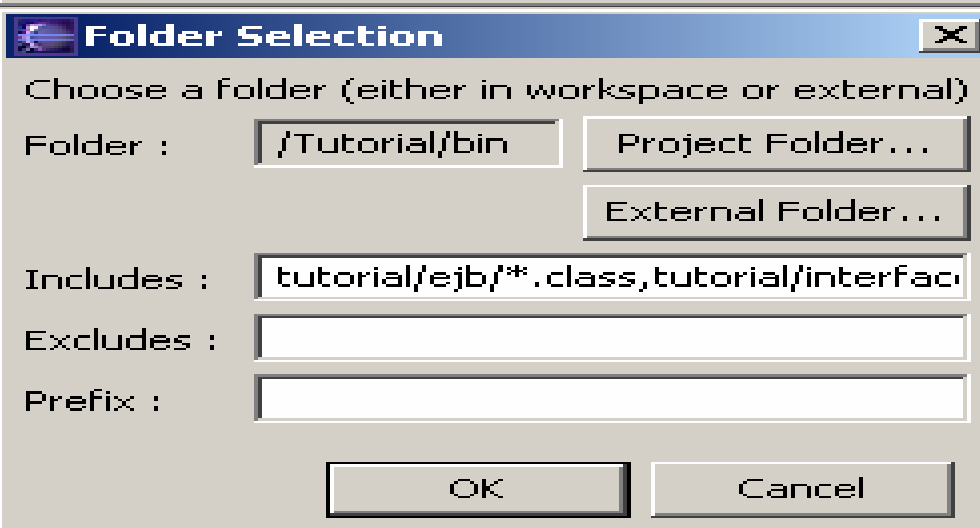
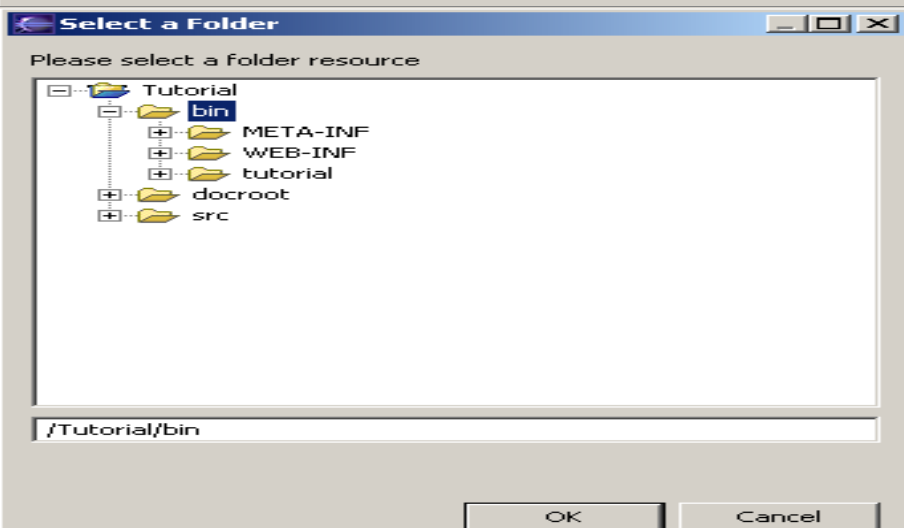
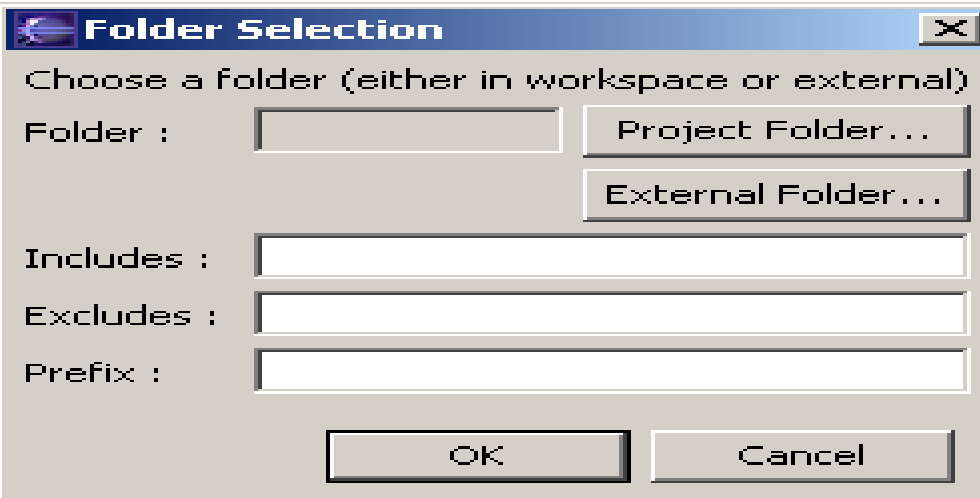
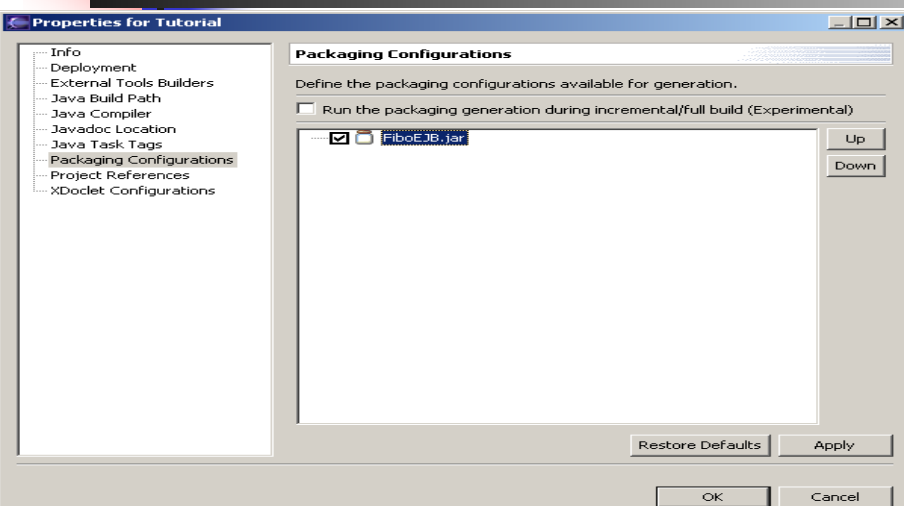
**Bottom-Right Screenshot:** Shows the 'ejbdoclet' checkbox checked and expanded. The 'deploymentdescriptor' and 'fileset' sub-items are checked. The 'Property' and 'Value' table contains the following entries:

Property	Value
<input type="checkbox"/> description	
<input checked="" type="checkbox"/> destDir	src/META-INF
<input type="checkbox"/> destinationFile	
<input type="checkbox"/> displayName	
<input type="checkbox"/> havingClass...	
<input type="checkbox"/> largeIcon	
<input type="checkbox"/> mergeDir	
<input type="checkbox"/> ofType	
<input type="checkbox"/> packageSub	

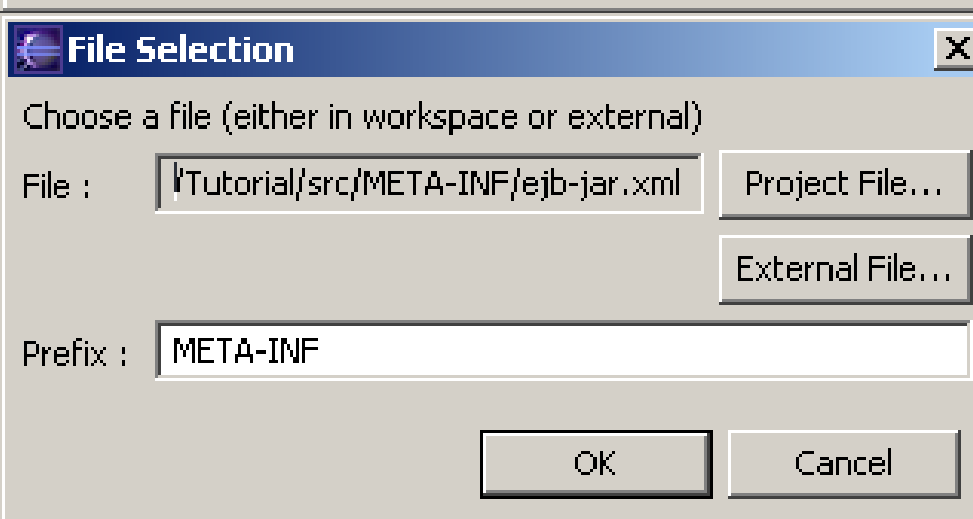
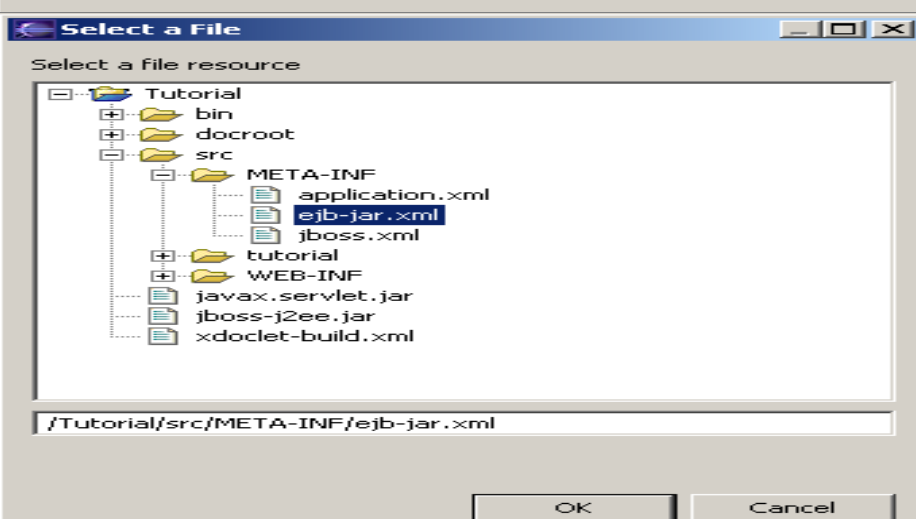
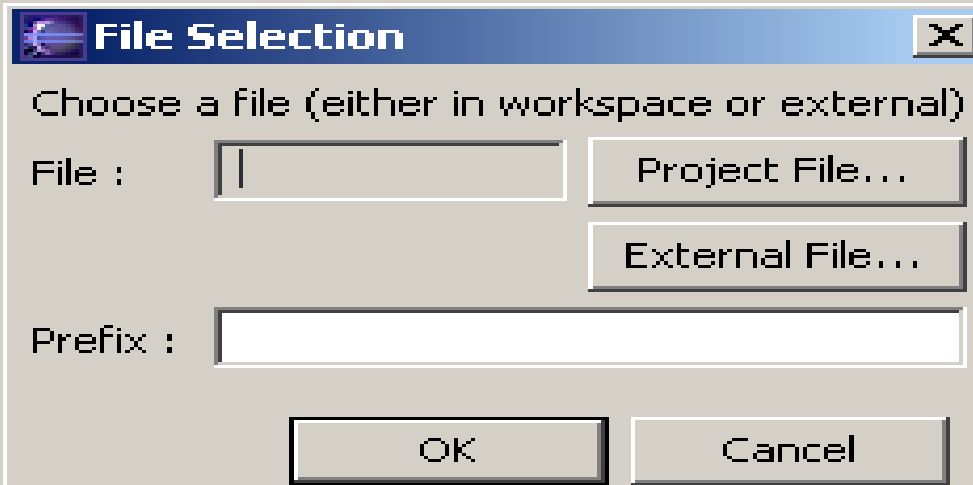
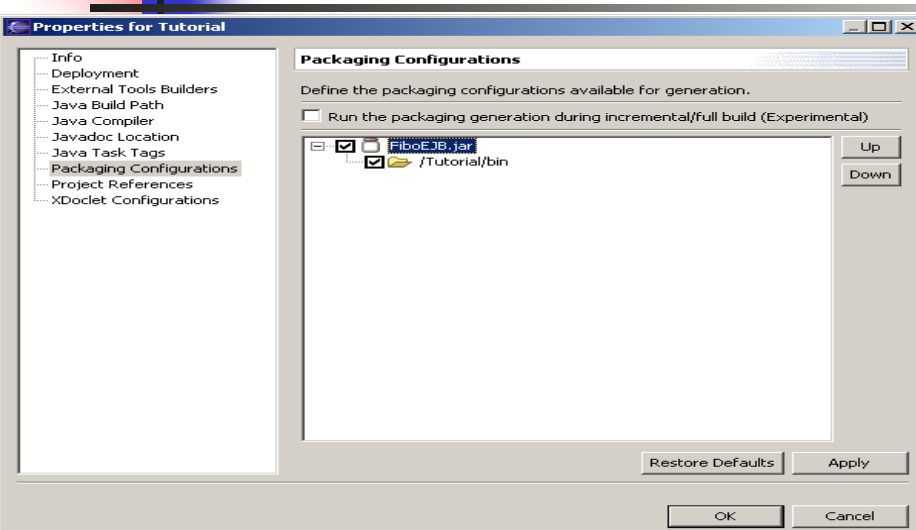
# Erzeugung von EJB Dateien



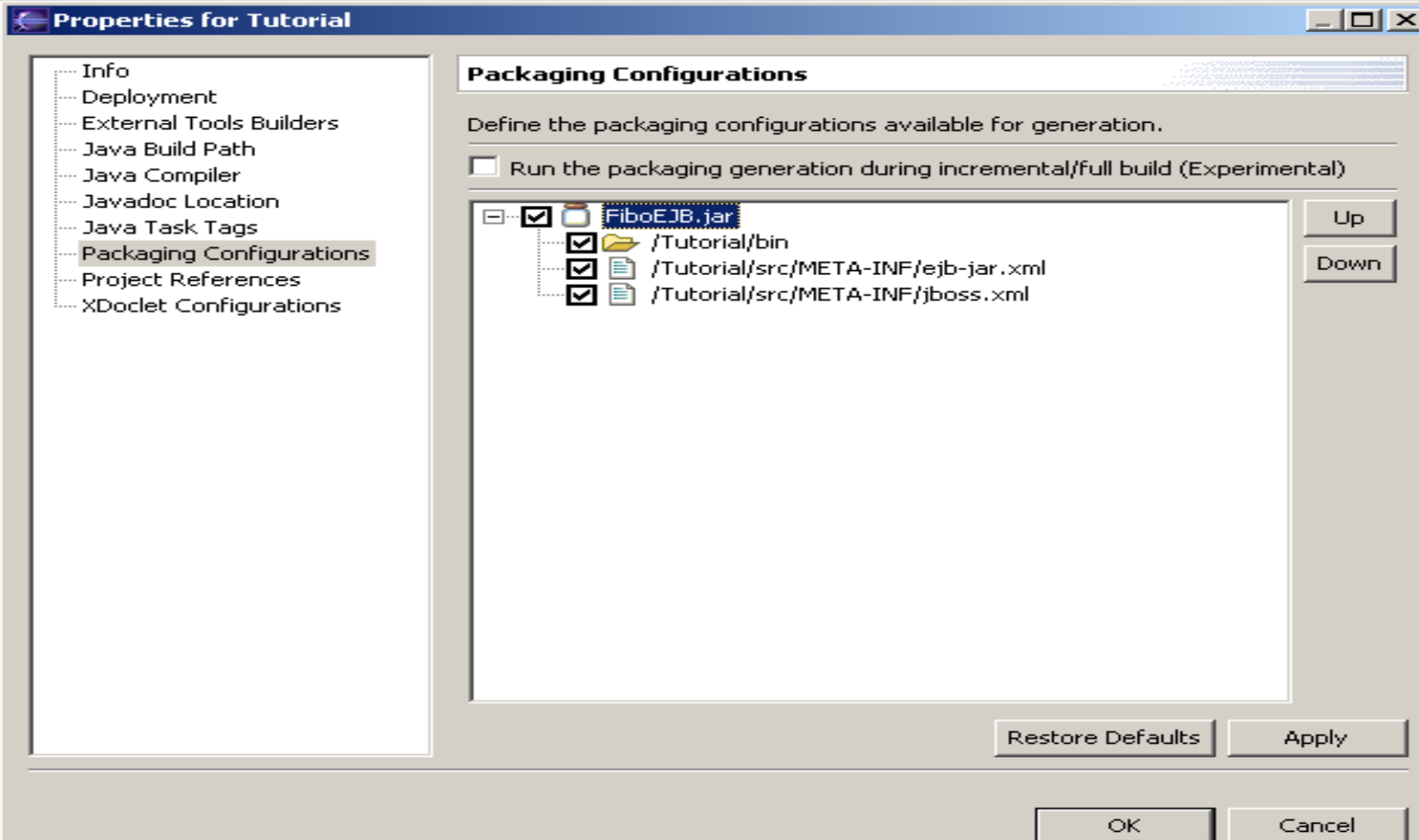
# Packaging



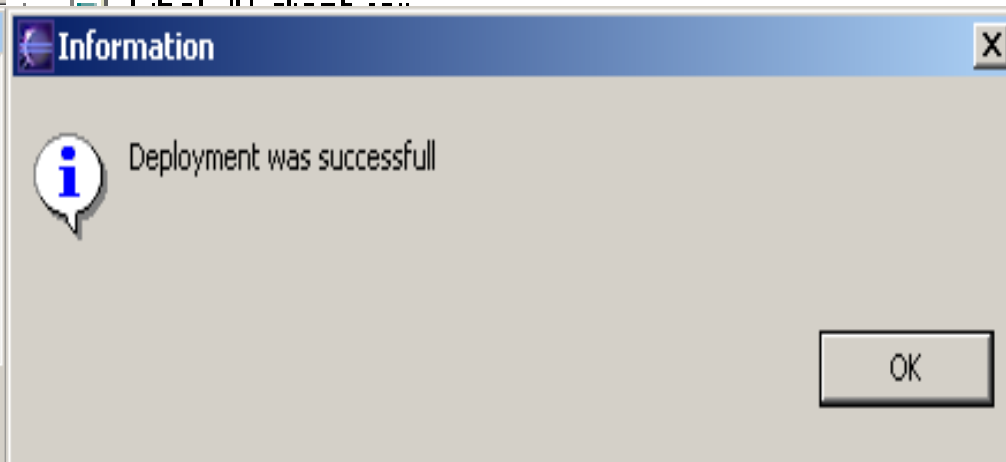
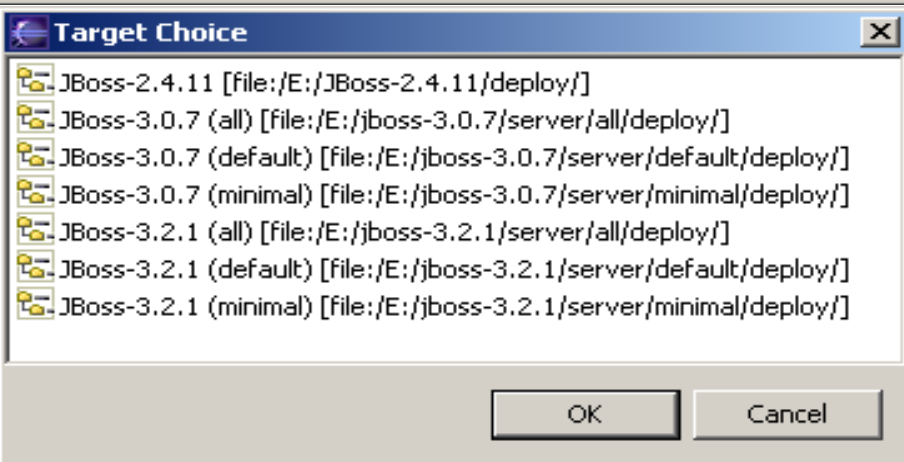
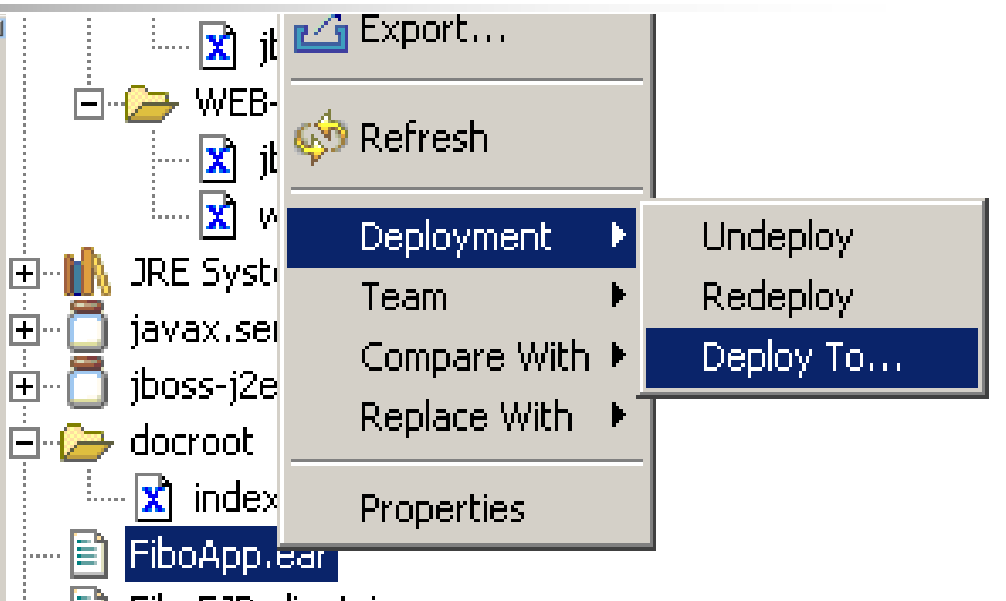
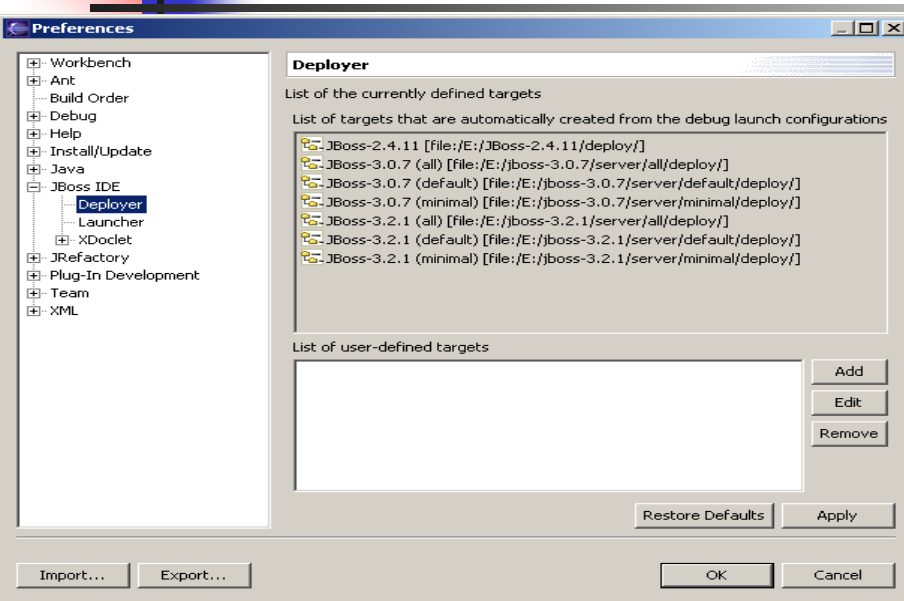
# Packaging



# Packaging



# Deployment





Danke !

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<http://www.jboss.org/products/jbosside>