Sams Teach Yourself J2EE 21 Days

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International Standard Book Number: 0-672-32384-2

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First Printing: April 2002

06 05 04 03 10 9 8 7 6 5 4

Misprint	Correction
Page 29	
Installing J2EE SDK 1.3	Preparing to Install J2EE SDK 1.3
Page 29, end of next to last paragraph, remove sentence:	
If you the JAVA_HOME variable is not defined, you must define it now as follows.	
Page 29, insert new text after next to last paragraph. See end of errata page for new text.	
page 29, insert new section head before last paragraph:	
Installing J2EE SDK 1.3 on Windows NT/2000	
page 30, step 5	
Assuming that you installed the J2EE SDK 1.3 on the C: drive using the default directory name, you will set the JAVA_HOME variable to	Assuming that you installed the J2EE SDK 1.3.1 on the C: drive using the default directory name, you will set the JAVA_HOME variable to
C:\j2sdkee1.3	C:\jdk1.3.1
	If you have installed the J2EE SDK in a different directory, please set the JAVA_HOME variable to that directory.
page 30, delete text beginning with	
If you are using Linux or Unix	
and ending with	
profile file in your home directory.	
page 30, delete paragraph beining with	
For Linux/Unix users	
page 30, next to last paragraph	
Now downlad the J2EE SDK in the format appropriate to your system from http://java.sun.com/j2ee/sdk_1.3/index.html.	Now downlad the J2EE SDK in for Windows NT/2000 from http://java.sun.com/j2ee/sdk_1.3/index.html.

page 31, remove text beginning with Solaris bullet through	
3. Add the J2EE classes to your CLASSPATH.	
page 31, paragraph in middle of page	
You have already been shown how to define variables and change your path for your environment (Windows users use the Control Panel and Linux/Unix users add variable definition lines to .profile), so making these changes will be straightforward.	You have already been shown how to define variables and change your path Windows , so making these changes will be straightforward.
page 31, second set of steps, past the middle of the page	
1. Define the following environment variable	1. Define the following environment variable
J2EE_HOME=c:\j2eesdk1.3	J2EE_HOME=c:\j2sdkee1.3
page 31, second set of steps, second code line for step 3	
.;%J2EE_HOME%/lib/j2ee.jar;%J2EE_HOME%/lib/locale	CLASSPATH=.;%J2EE_HOME%/lib/j2ee.jar;%J2EE_HOME%/lib/locale
pages 31-32, delete text beginning with	
Linux/Unix users must add the following	
through the line of code right before	
That is it!	
Also delete the Note immediately before "Starting the J2EE Reference Implementation (RI)"	
page 32, insert new text before "Starting the J2EE Reference Implementation (RI)"; see end of errata page for new text	
page 44, the "Components: Message Beans" heading should come before the second paragraph on the page, which begins "A message-driven EJB"	
page 72, Figure 2.16	
The crows foot arrow between the Skill and ApplicantSkill tables should be in the opposite direction, pointing down toward Skill from ApplicantSkill.	
page 104, the paragraph below the second note, first sentence	The rest of the sub-section assumes that you have some
The rest of the sub-section assumes that you have some	knowledge of Linux and OpenLDAP (at the very least, that

knowledge of Linux and OpenLDAP (at the very least, that you have successfully installed OpenLDAP on a Unix server).	you have successfully installed OpenLDAP on a Linux server).
Also, in the last line of that paragraph there should not be a space before the 2.0.15.	
page 108, first two lines of the page	
Run the following command to check access to the LDAP server.	Run the following command to check access to the LDAP server.
java JNDILookupAny "cn=Manager, o=Agency, c=us "	java JNDILookupAny "cn=Manager, o=Agency, c=us"
	Note there should not be a space before the final quote.
page 116, the paragraph below the Note, ignore/delete the phrase bolded below.	
With the name registered and the HTTP server running, the client can look up the bound object without having the Book class file in the search path.	
page 310, code at the top of the page, semicolon in last line should be a "j"	SELECT OBJECT(;)
SELECT OBJECT(;)	FROM Job AS ;
FROM Job AS ;	WHERE j.location.name = ?1
WHERE ;.location.name = ?1	
page 358, last sentence on the page	
Indeed, if you have used the Adapter design pattern, you'll recognize that the ResourceAdapter is well named, combining two orthogonal interfaces into a single instance.	Indeed, if you have used the Adapter design pattern, you'll recognize that the ResourceAdapter is well named, combining two orthogonal interfaces into a single class.
page 405, caption to Figure 9.5	
Using deploytool to configure installation.	Using deploytool to configure a jms queue.
page 407, step 3	
3. Establish a QueueSession for this connection. In this case, the QueueSession has transactions set to false (transactions are covered later) and AUTO ACKNOWLEDGE of receipt of messages	3. Establish a QueueSession for this connection. In this case, the QueueSession has transactions set to false (transactions are covered later) and AUTO_ACKNOWLEDGE of receipt of messages

You can use the PTPSender program described in Day 9 to send the message.
4. In both AgencyBean.java and RegisterBean.java, add the following to close down the MessageSender.
ejbRemove()
try {
<pre>messageSender.close();</pre>
}
catch (JMSException ex) {
Should be
http://www.contentmaster.com/inpublisher/Upload_Images/sams/gif
<pre><form> Delimit a form. This is used to send user input to the server.</form></pre>
servlet-class The servlet's classname.

page 578, Note	
If a bean property has only a getter method, it is read- only: a write-only method only has a setter method. A property is read-write if it has both getter and setter methods.	If a bean property has only a getter method, it is read- only: a write-only property only has a setter method. A property is read-write if it has both getter and setter methods.
page 609, Table 14.3, first entry	
TagSupport implements Tag Extend this class for tags that do not have a body or do not interact with the tag body.	TagSupport implements Tag, Extend this class for tags that do not have a body or do not interact with the tag body.
page 610, third line in paragraph after "The doAfterBody() Method"	
Delete the phrase in parentheses, "(those that extend BodyTagSupport)"	
page 611, third line in paragraph after "The doInitBody() Method"	
Delete the phrase in parentheses, "(those that extend BodyTagSupport)"	
622, first paragraph on the page	
To keep the example code simple, it always stores the bean against the name cust. To be more flexible, you could add an additional parameter (such as beanName) to be used to allow the customer bean variable name to specified by the JSP developer. In this case, you would set the TLD <variable> information to use this parameter using the <name-from-attribute>beanName<name-from-attribute></name-from-attribute> tag.</name-from-attribute></variable>	To keep the example code simple, it always stores the bean against the name cust. To be more flexible, you could add an additional parameter (such as id) to be used to allow the customer bean variable name to specified by the JSP developer. In this case, you would set the TLD <variable> information to use this parameter using the <name-from-attribute>id<name-from-attribute></name-from-attribute> tag.</name-from-attribute></variable>
page 657, first line of last paragraph	
In real applications, symmetric algorithms use sophisticated algorithms	In real applications, symmetric encryption uses sophisticated algorithms
page 660, second paragraph after "Digital Certificates" heading The official specification for the X.500 Directory Service is available	The official specification for the X.509 Digital Certificates is available

<pre>page 707, Table 16.1, entry line 2, the is in the wrong column. 2 <tag attribute="text"> Attribute and a text</tag>body page 710, in the Note Appendix C is not on the CD-ROM; it's in the actual book.</pre>	2 <tag attribute="text"> Attribute and a text body </tag>
page 714, last line of the paragraph below the "Namespaces" headingapplication differentiate between these different types of book descriptions?	application differentiate between these different types of job descriptions?
page 731, Table 16.10, the third and last entries have text in the wrong columns insertBefore(Node newNode, Inserts the newNode before Node refNode) the existing refNode replaceChild(Node newNode, Replaces the oldNode withNode oldNode) newNode in the child NodeList.	<pre>insertBefore(Node newNode, Node refNode) replaceChild(Node newNode, Node oldNode) Inserts the newNode before the existing refNode Replaces the oldNode with newNode in the child NodeList.</pre>
page 731, Table 16.10 continued, same problem setNodeValue(String Set the value of this node, nodeValue)depending on its type; see Table 16.10.	setNodeValue(String Set the value of this node, nodeValue) Set the value of this node, depending on its type; see Table 16.10.
setPrefix(java.lang.String Set the namespace prefix of prefix)this node.	setPrefix(String prefix) Set the namespace prefix of this node.
<pre>page 762, single code line near the bottom of the page, there should be no space between " and child <xsl:template match=" child::skill"></xsl:template></pre>	<pre><xsl:template match="child::skill"></xsl:template></pre>
<pre>page 780, third set of double code lines at the top of the page </pre>	

page 993, Table C.3, fourth entry down ? Element is optional	? Element is optional but if present, must appear only once
Last sentence on the page, ignore the "preceded" at the end of the first line.	
The root element is <jobsummary< jobsummary="">. The <job> element has two attributes and enclosed elements.</job></jobsummary<>	The root element is <jobsummary< jobsummary="">. The <job> element has two attributes and enclosed subelements.</job></jobsummary<>
page 989, paragraph just above the "Declarations" heading	

New text to be inserted on page 29

Instructions for setting up the JAVA_HOME variable and installing J2EE SDK 1.3 on Windows and Unix are described in the following two sub sections. On each platform you will perform the following steps:

- 1. Define the JAVA_HOME variable if it is not already defined.
- 2. Add the JDK bin directory to your program search path.
- 3. Download the J2EE SDK.
- 4. Extract and install the J2EE SDK archive.
- 5. Define the J2EE SDK environment variables
- 6. Add the J2EE SDK bin directory to your program search path.
- 7. Add the J2EE classes to your CLASSPATH.

Note: All the documentation for the J2EE utility programs and class files is contained in the J2EE SDK download bundle. You will find the documentation in the docs subdirectory of the J2EE installation directory.

New text to be inserted on page 32 Installing J2EE SDK 1.3 on Linux

If you are using Linux and the JAVA_HOME environment variable does not exist, you can set it with the following command (you must be using Bash or another compatible shell such as the Bourne shell):

JAVA_HOME=/usr/local/jdk1.3.1 export JAVA_HOME

This example assumes you have installed the Sun Microsystems' JDK 1.3.1 in /usr/local.

Typically, you will add these variable definitions to your login environment by adding the same two lines to the .profile file in your home directory.

Finally, you should ensure that the JDK bin directory is in your search path (again this should already be configured on your workstation).

If your search path does not contain the JDK bin directory, add the following line to your .profile file:

PATH=\$PATH:\$JAVA HOME/bin

Now download the Linux J2EE SDK from http://java.sun.com/j2ee/sdk_1.3/index.html. You should download the J2EE SDK to a temporary directory because the installation process will ask you where to install the SDK.

Change directories to the required parent directory for the J2EE SDK (for example, /usr/local) and extract the download bundle using the following command:

tar - xzvf <download_directory>/j2sdkee-1_3_01-linux.tar.gz

You have already been shown how to define variables and change your path setting so making the following changes to your login environment will be straightforward. You must add the following to your .profile (assuming the J2EE SDK was installed in /usr/local/j2eesdk1.3):

1. Define the following environment variable:

J2EE_HOME=/usr/local/j2eesdk1.3

2. Update the PATH variable for J2EE SDK:

PATH=\$PATH:\$J2EE_HOME/bin

3. Add the J2EE JAR files to the CLASSPATH variable:

CLASSPATH=\$CLASSPATH:\$J2EE HOME/lib/j2ee.jar:\$J2EE HOME/lib/locale

If your CLASSPATH variable is not currently defined, you must ensure that it includes the current directory so the full setting will be

CLASSPATH=.:\$J2EE HOME/lib/j2ee.jar:\$J2EE HOME/lib/locale

That is it! You are now ready to start using the J2EE SDK.

Installing J2EE SDK 1.3 On Solaris

If you are using Solaris and the JAVA_HOME environment variable does not exist, you can set it with the following command (you must be using the Korn shell another compatible shell such as the Bourne shell):

JAVA_HOME=/opt/jdk1.3.1 export JAVA HOME

This example assumes you have installed the Sun Microsystems' JDK 1.3.1 in /opt.

Typically, you will add these variable definitions to your login environment by adding the same two lines to the .profile file in your home directory.

Finally, you should ensure that the JDK bin directory is in your search path (again this should already be configured on your workstation).

If your search path does not contain the JDK bin directory, add the following line to your .profile file:

PATH=\$PATH:\$JAVA_HOME/bin

Now download the Solaris J2EE SDK from http://java.sun.com/j2ee/sdk_1.3/index.html. You should download the J2EE SDK to a temporary directory because the installation process will ask you where to install the SDK.

Next, issue the following commands to make the download bundle executable and run the installation:

```
chmod a+x ./j2sdkee-1_3__01-solsparc.sh
./j2sdkee-1_3__01-solsparc.sh
```

You have already been shown how to define variables and change your path setting so making the following changes will be straightforward. You must add the following to your .profile (assuming the J2EE SDK was installed in /opt/j2eesdk1.3):

1. Define the following environment variable:

```
J2EE_HOME=/opt/j2eesdk1.3
```

2. Update the PATH variable for J2EE SDK:

PATH=\$PATH:\$J2EE HOME/bin

3. Add the J2EE JAR files to the CLASSPATH variable:

CLASSPATH=\$CLASSPATH:\$J2EE_HOME/lib/j2ee.jar:\$J2EE_HOME/lib/locale

If your CLASSPATH variable is not currently defined, you must ensure that it includes the current directory so the full setting will be

CLASSPATH=.:\$J2EE HOME/lib/j2ee.jar:\$J2EE HOME/lib/locale

That is it! You are now ready to start using the J2EE SDK.

This errata sheet is intended to provide updated technical information. Spelling and grammar misprints are updated during the reprint process, but are not listed on this errata sheet.