

WA1605 SOA Data Modeling

Classroom Setup Guide

Web Age Solutions Inc

Part 1 - Minimum Hardware Requirements

- 2.5 GHz Pentium
- 2 GB Memory (4 GB recommended)
- 10 GB free hard disk space
- Network connectivity to the internet. Note: Some of the lab exercises require functioning Internet access.

Part 2 - Minimum Software Requirements

- One of the following Windows versions:
 - Windows Vista
 - Windows 7
- Internet Explorer 7 or later
- Adobe Acrobat Reader
- WinZip
- WebSphere Integration Developer 6.0.2 (WID v6.0.2) *
- NET Framework 3.5 *
- Saxon b9 *
- Eclipse IDE for Java Developers *
- WST R 2.0.1 *
- Java Development Kit 5.0 (JDK 5.0) *
- Apache Tomcat 6 *
- WTP v2.1 *

* - indicates software provided as part of the courseware.

- indicates software that the client must have licenses to use the product.

Part 3 - Software Provided

You will receive the following files:

- **WA1605.ZIP**

All other software listed under Minimum Software Requirements is either commercially licensed software that you must provide or software that is freely available off the Internet.

Part 4 - Important Ghosting or Imaging Information

Some of the software installed for this course will not function after changing the computer hostname. As such, cloning or imaging should not be used on a fully installed system.

You can save time by extracting the contents of the USB memory stick to C:\ on a clean OS install (no other software installed) and then imaging that hard drive. After restoring the image to the other computers and changing the hostnames, you can then install the software on each computer individually by following the instructions that are detailed later in this document.

Part 5 - Instructions

- _ 1. Ensure that a user that is a member of the Administrators group is available for the students to use during class.
- _ 2. Extract the **WA1605.ZIP** file to C:\
- _ 3. Review that the following folders were created:
 - C:\eclipse
 - C:\LabFiles
 - C:\Saxon
 - C:\WTP
 - C:\Software\WID602

4. Review that the following files were created.
 - C:\Software\apache-tomcat-6.0.14.exe
 - C:\Software\dotNetFx35setup.exe
 - C:\Software\jdk-1_5_0_14-windows-i586-p.exe

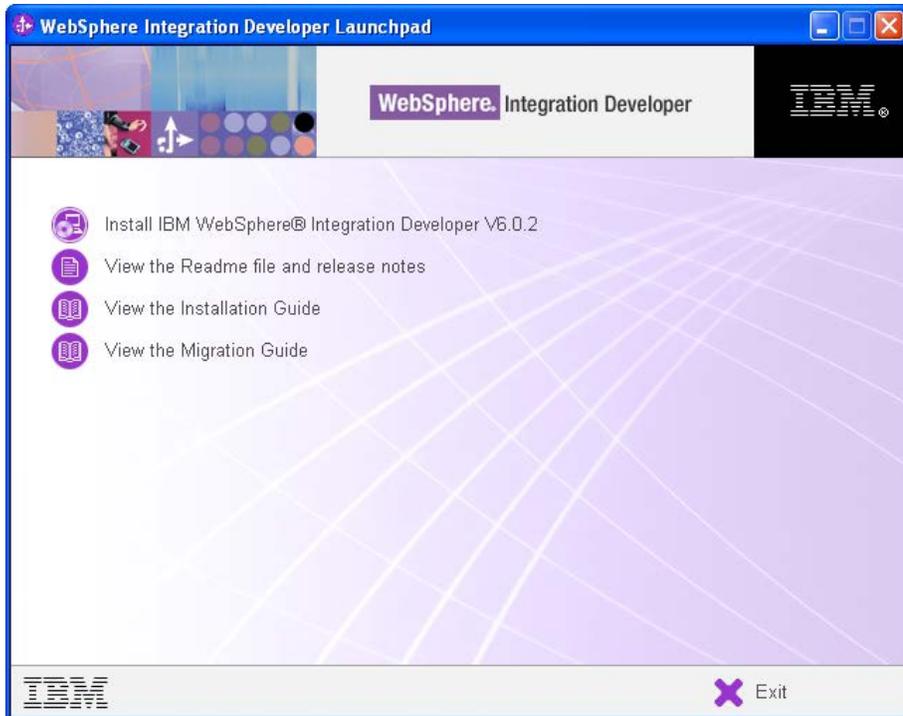
Part 6 – Disable DEP

You must disable Data Execution Prevention (DEP) on regular windows application or the WebSphere Integration Developer installer will crash during install.

1. Open **System** from the Control Panel
2. Select the **Advanced** tab.
3. Click **Settings** under Performance.
4. Select the **Data Execution Prevention** tab
5. Select **Turn on DEP for essential windows programs and services only**.
6. Click OK on all windows.
7. Reboot.

Part 7 - Installing WebSphere Integration Developer v6.0.2

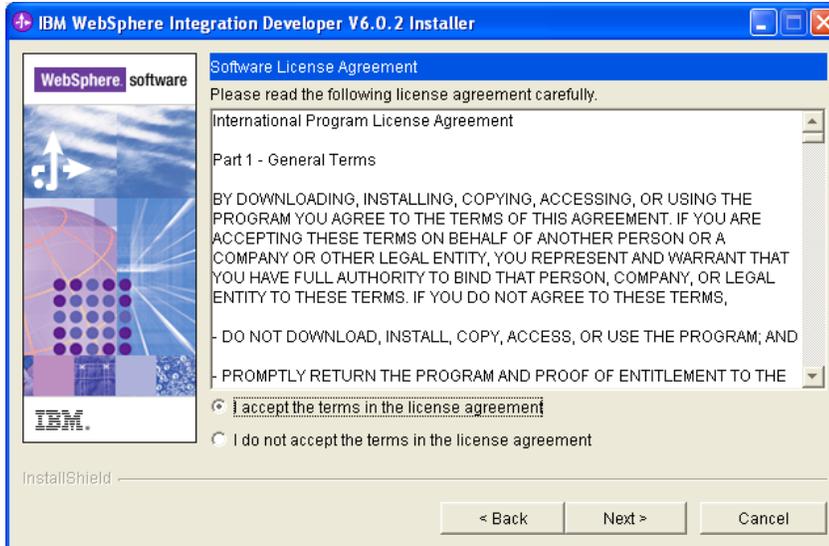
1. Copy the contents of the 6 CD's WID.6.0.2 to C:\Software.
2. From C:\Software\disk1, run **launchpad.exe**.



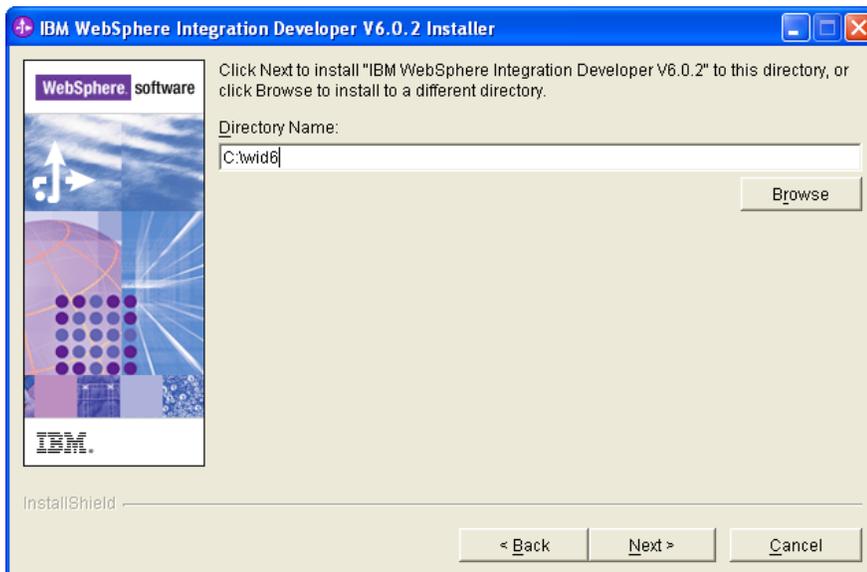
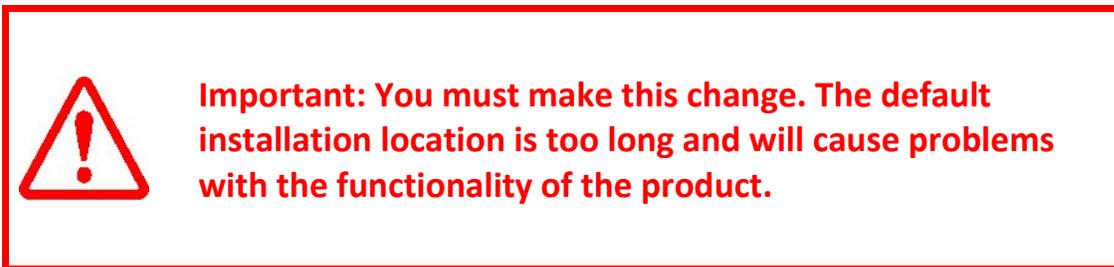
3. Click on **Install IBM WebSphere Integration Developer V6.0.2**.
4. Click **Next** in the Welcome screen.



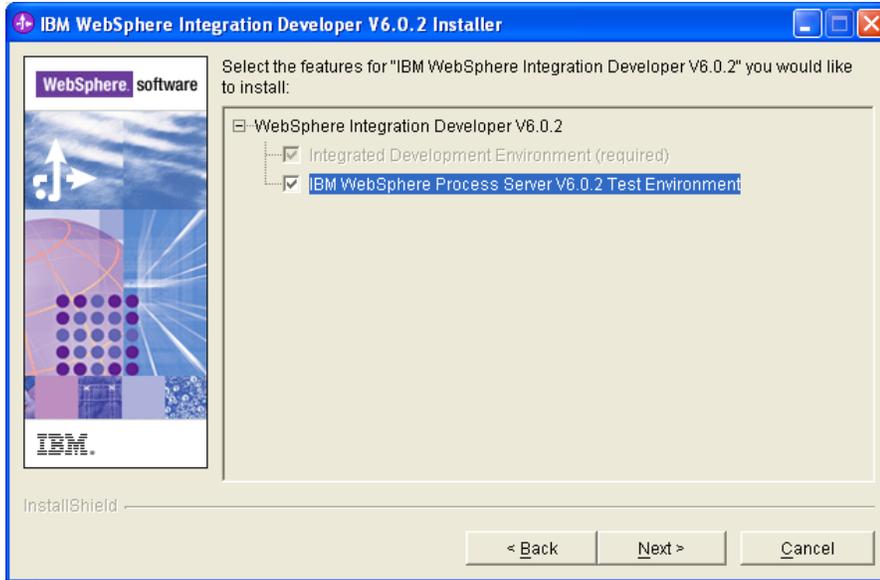
5. Accept the license terms and click **Next**.



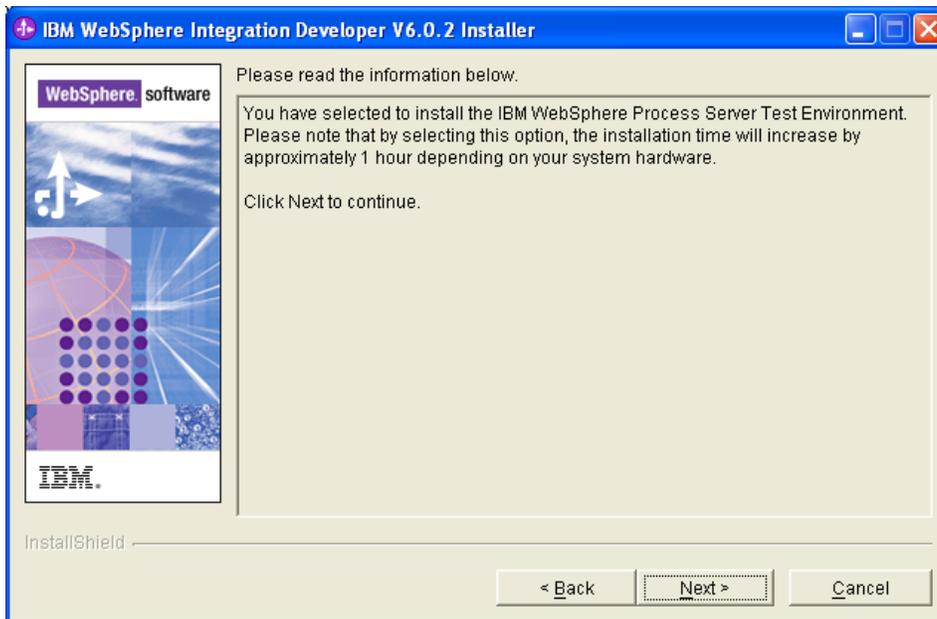
6. Change the installation location to **C:\wid6** and click **Next**.



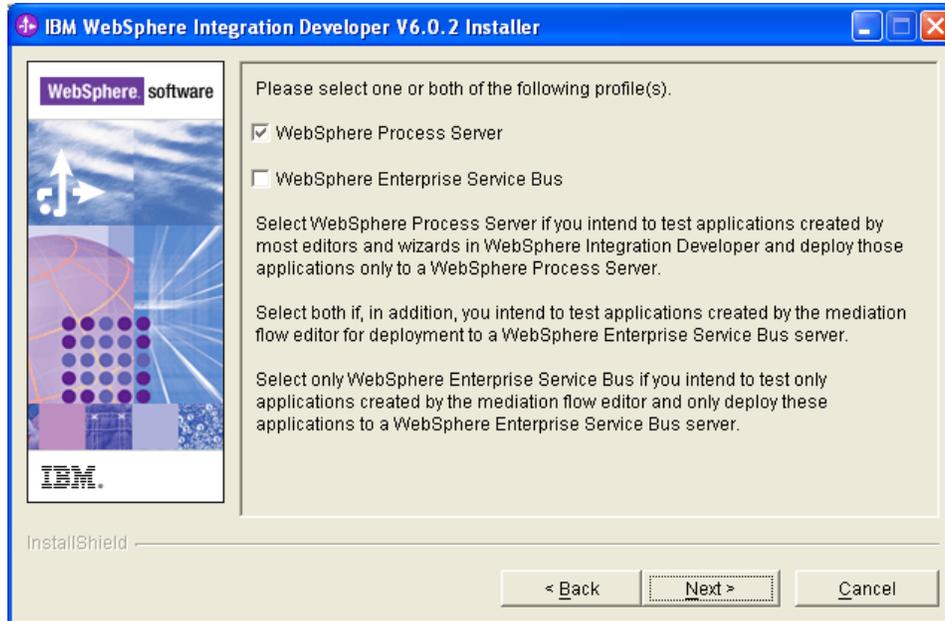
7. Check the **IBM WebSphere Process Server V6.0.2 Test Environment** and click **Next**.



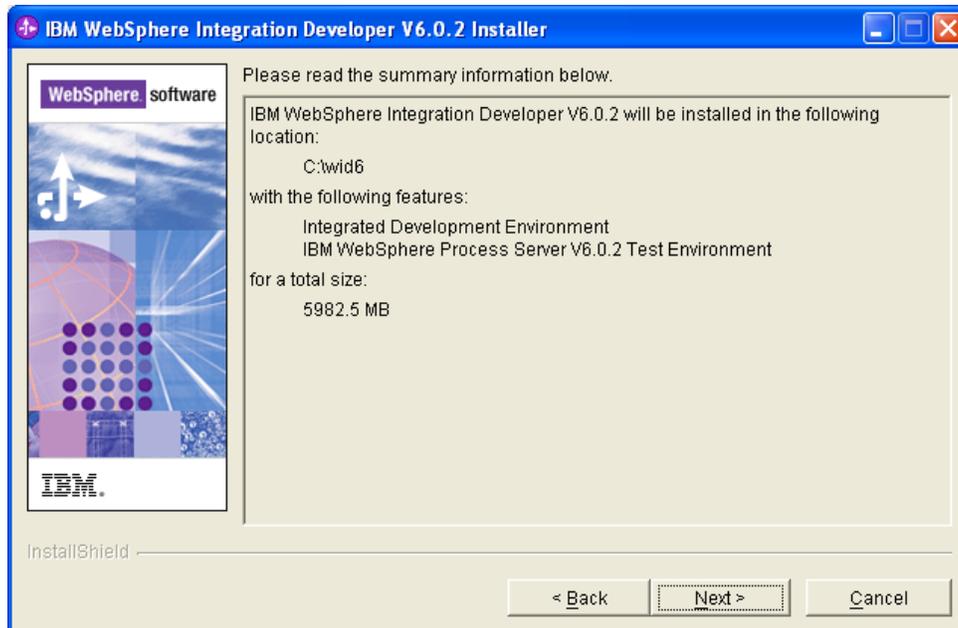
8. Read the message and click **Next**.



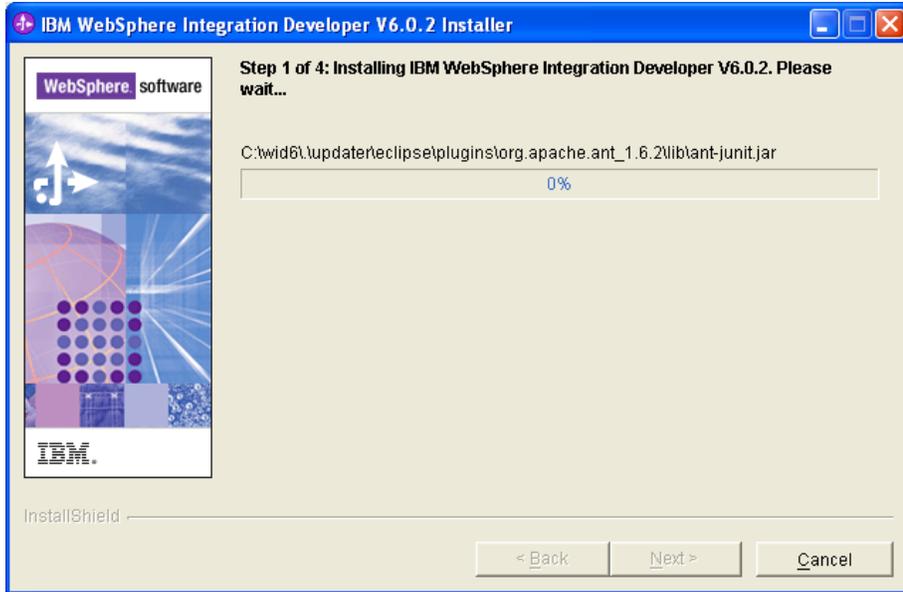
9. In the following screen, accept the default and press **Next**.



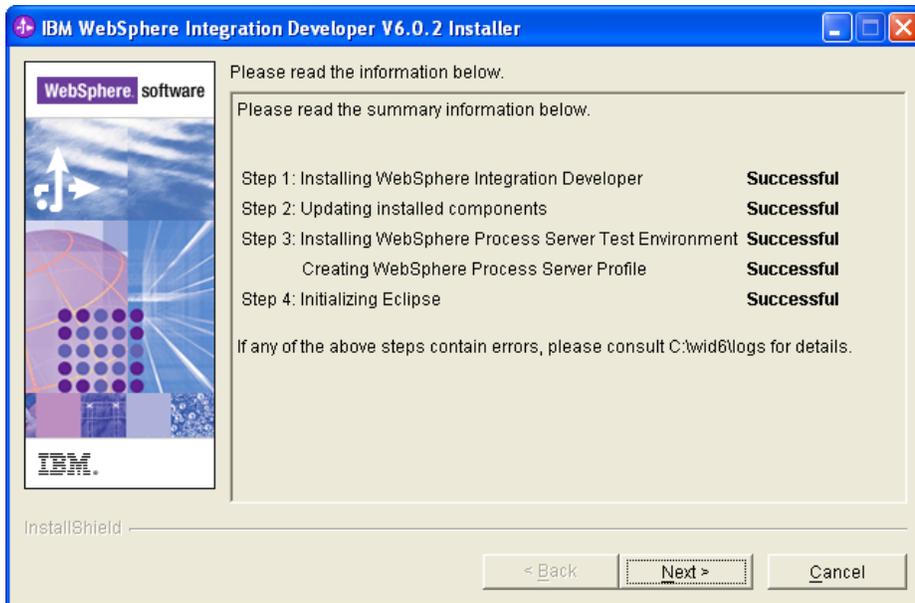
10. In the summary page, click on **Next**.



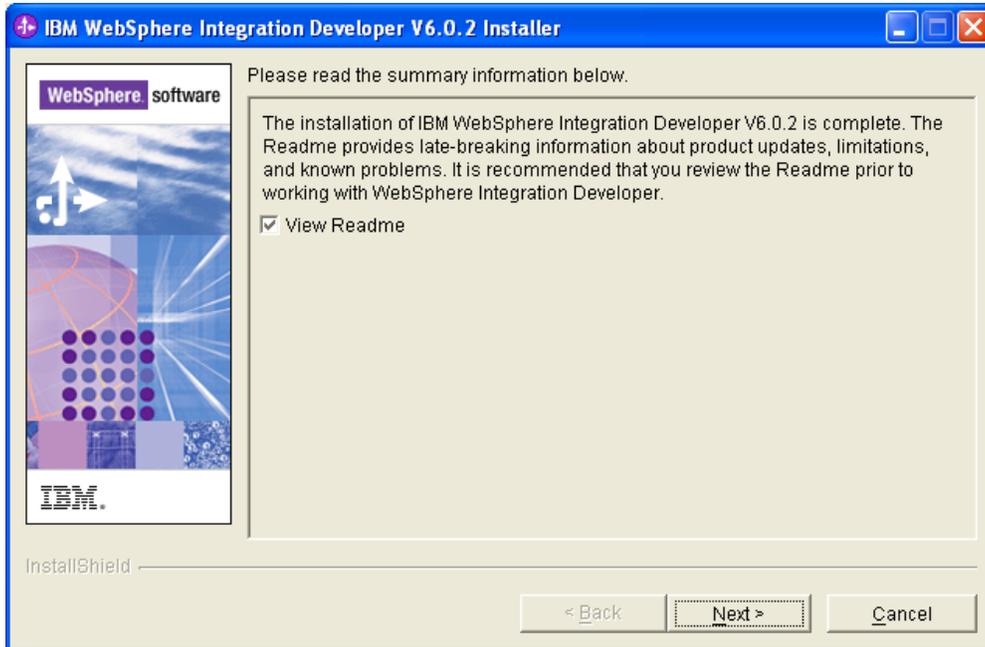
System will begin the installation. Wait for installation to end.



11. Finally, make sure that you see the following screen and click **Next**.

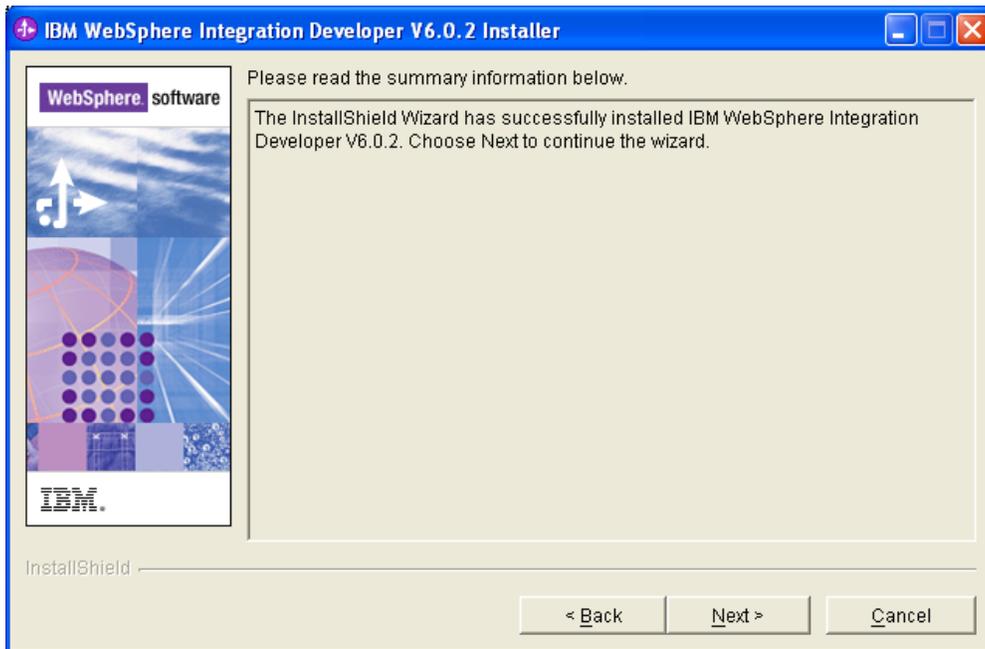


12. Read the summary information and click **Next**.

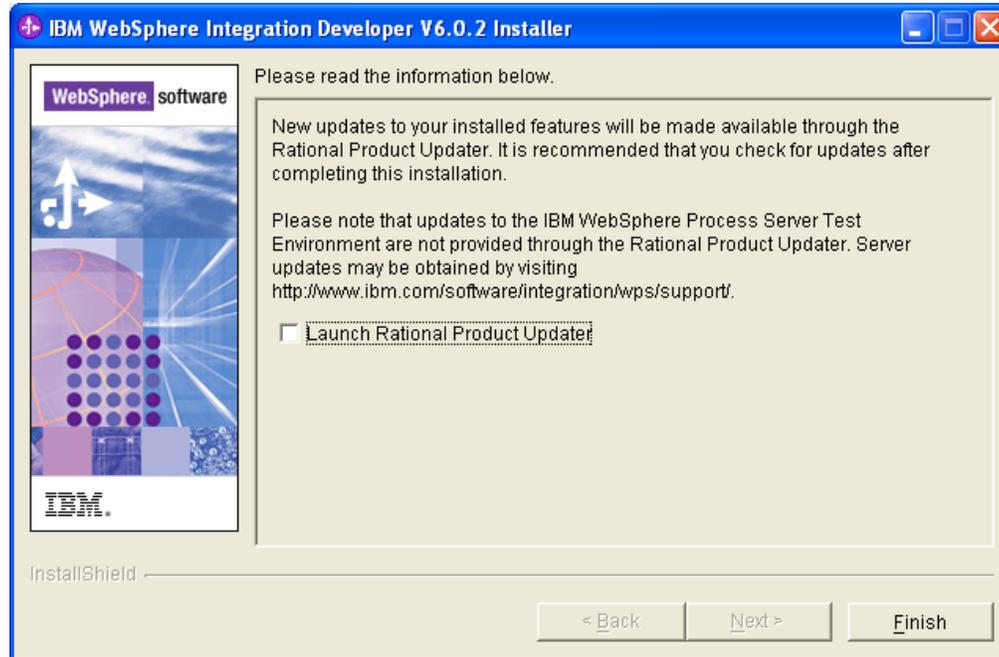


13. System will open the read me file in a browser. Take a look in the file.

14. Read the summary information and click **Next**.



15. Uncheck **Launch Rational Product Updater**. Click **Finish**.



16. Installation of WebSphere Integration Developer v6.0.2 (WID v6.0.2) is now complete. Close the WebSphere Integration Developer Launchpad windows.

Quick Verification

Run these quick verification steps on all machines.

1. Open **C:\wid6\logs\wid_v602_install.log**.
2. Go to the end of the file. Make sure that you see:

```
(3-May-2007 4:00:31 PM), Install, com.ibm.wstools.WBISStatusCondition,
dbg, Status: INSTCONFSUCCESS
(3-May-2007 4:00:52 PM), Install,
com.ibm.wstools.AddLogEntryWizardAction, MESSAGE, Installation Complete
```

3. Open **C:\wid6\logs\wps_v602_install_err.log**.
4. Make sure that this error log file is empty.
5. Open **C:\wid6\logs\wps_v602_create_wps_profile.log**.
6. Scroll down to the very end. Make sure that you see these lines:

```
(3-May-2007 3:50:56 PM), Install,
com.ibm.ws.install.ni.ismp.actions.ISMPLogSuccessMessageAction, msg1,
INSTCONFSUCCESS
(3-May-2007 3:50:56 PM), Install,
com.ibm.ws.install.ni.ismp.actions.ISMPFileSystemManipulationWizardAction
```

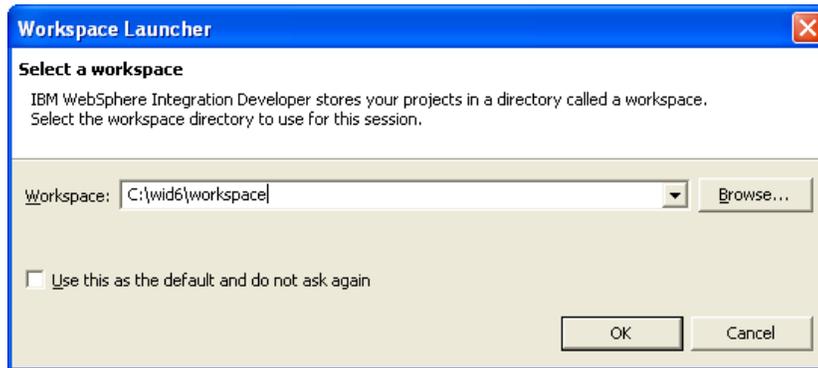
```
, err, The system cannot find the file specified.  
(2)  
(3-May-2007 3:50:56 PM), Install,  
com.ibm.ws.install.ni.ismp.actions.ISMPFileSystemManipulationWizardAction  
, err, The system cannot find the file specified.  
(2)
```

7. Ignore the error message "system cannot find the file specified". Make sure that you can see the line with "INSTCONFSUCCESS".

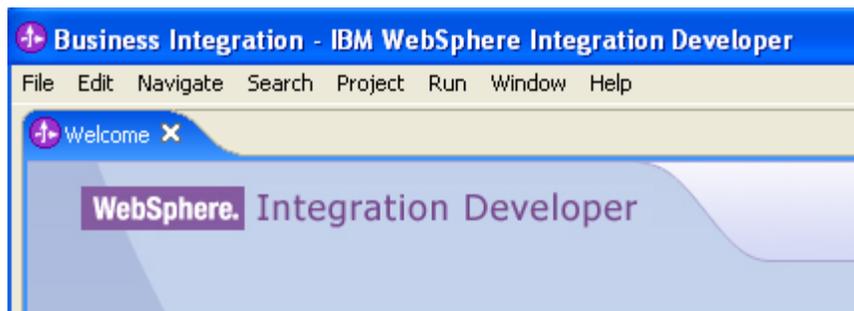
Detailed Verification

Run detailed verification on at least one machine.

1. Launch WID using the following Windows start menu: **Start->All programs->IBM WebSphere->Integration Developer 6.0.2->WebSphere Integration Developer V6.0.2.**
2. Change the workspace to **C:\wid6\workspace** as shown below:



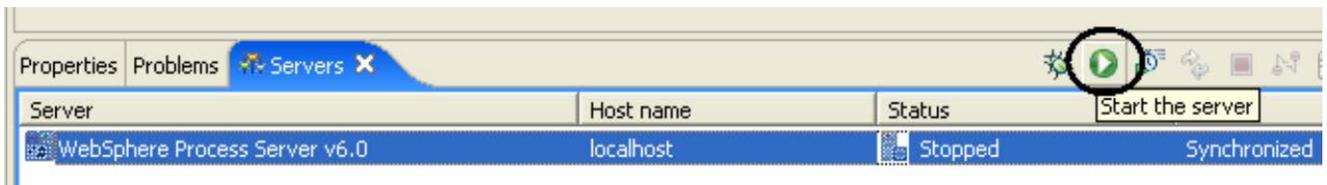
3. Click **OK**.
4. Close the Welcome screen.



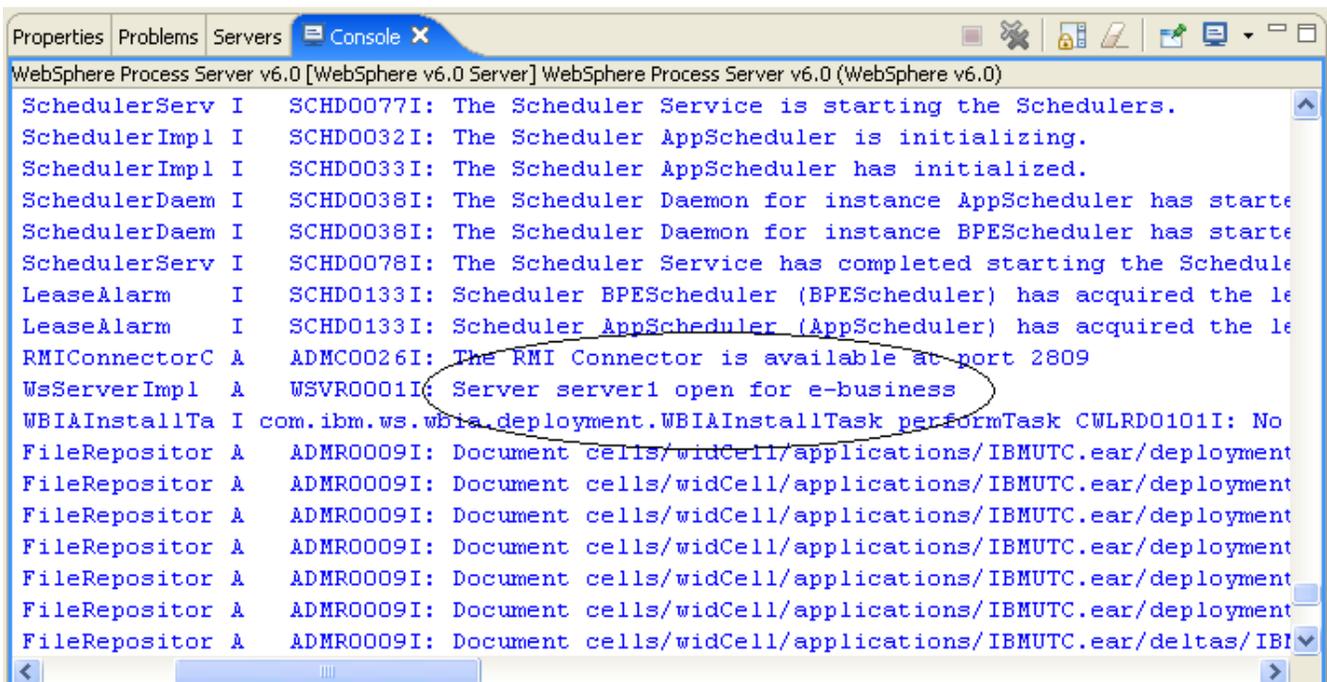
5. At the bottom of the screen, click on the **Servers** tab.



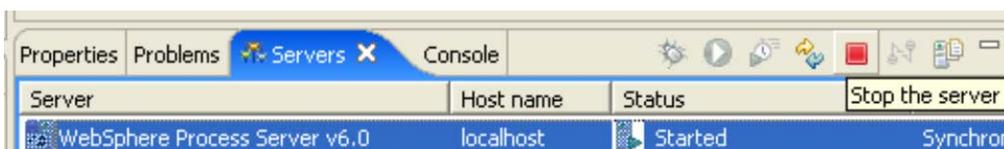
6. Select **WebSphere Process Server v6.0**.
7. Click on the **Start the server** button to start the server.



8. In the **Console** view, system will show the startup messages. Wait for a minute or two. Make sure that you see the "**Server server1 open for e-business**" message.



9. Click on the **Servers** tab again. Make sure that the status of the server is **Started**.



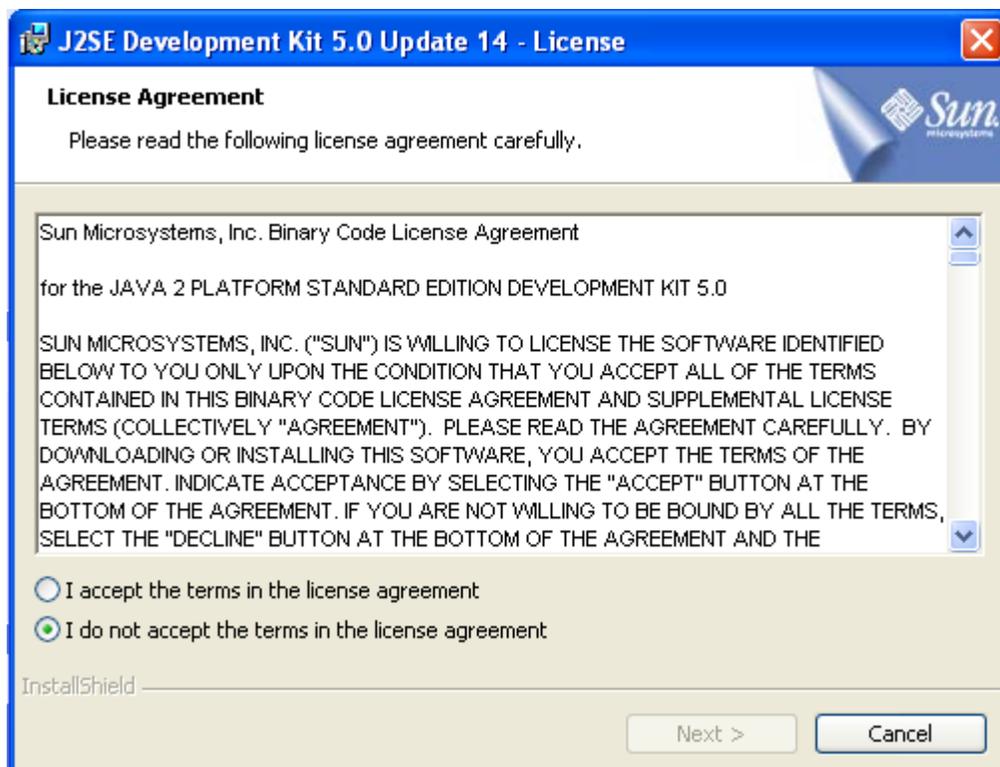
10. Select the server and stop it by clicking on the **Stop the server** button.

11. Wait for the server to stop.
12. Exit WID by choosing **File->Exit** from the menu bar.
13. Close all the open files.

Part 8 - Installing JDK 5.0 update 14

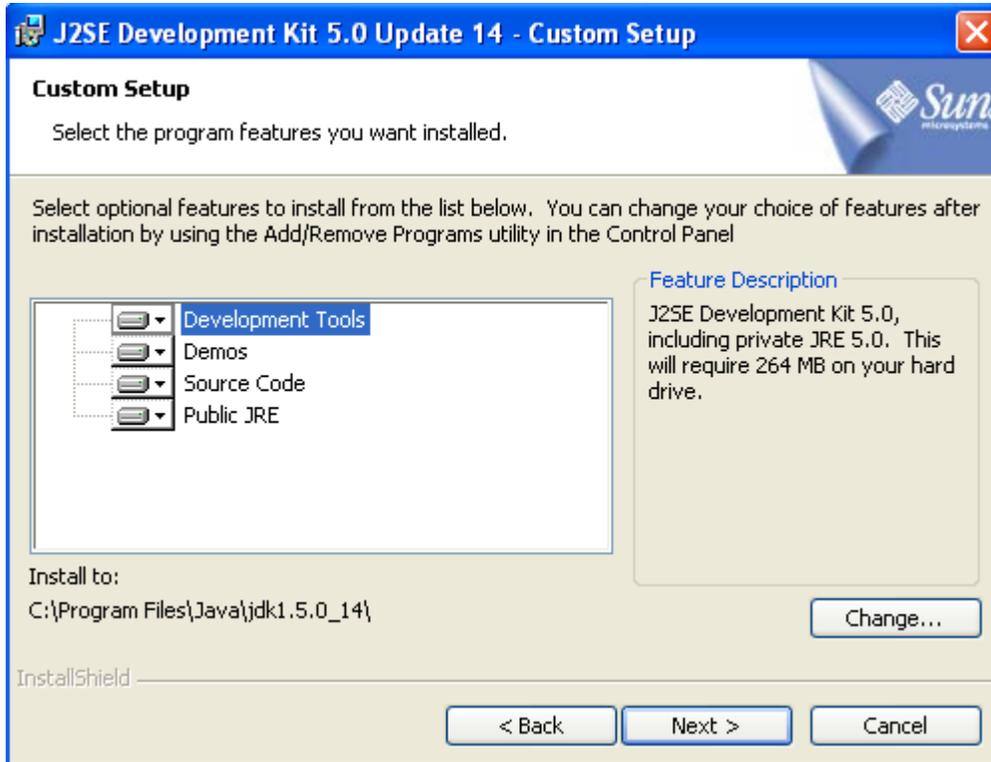
1. From C:\Software, launch **jdk-1_5_0_14-windows-i586-p.exe**.

The Install shield Wizard will start. The *License Agreement* window will appear.



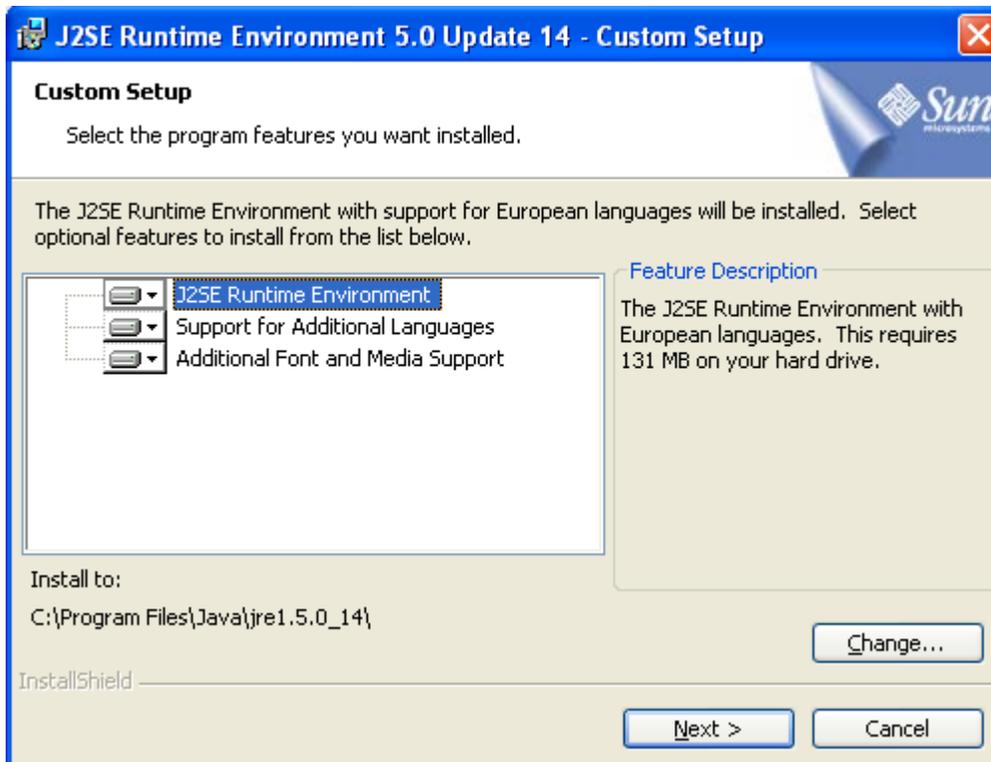
2. Select **I accept the terms in the license agreement** and click **Next**.

The *Custom Setup* screen will appear.

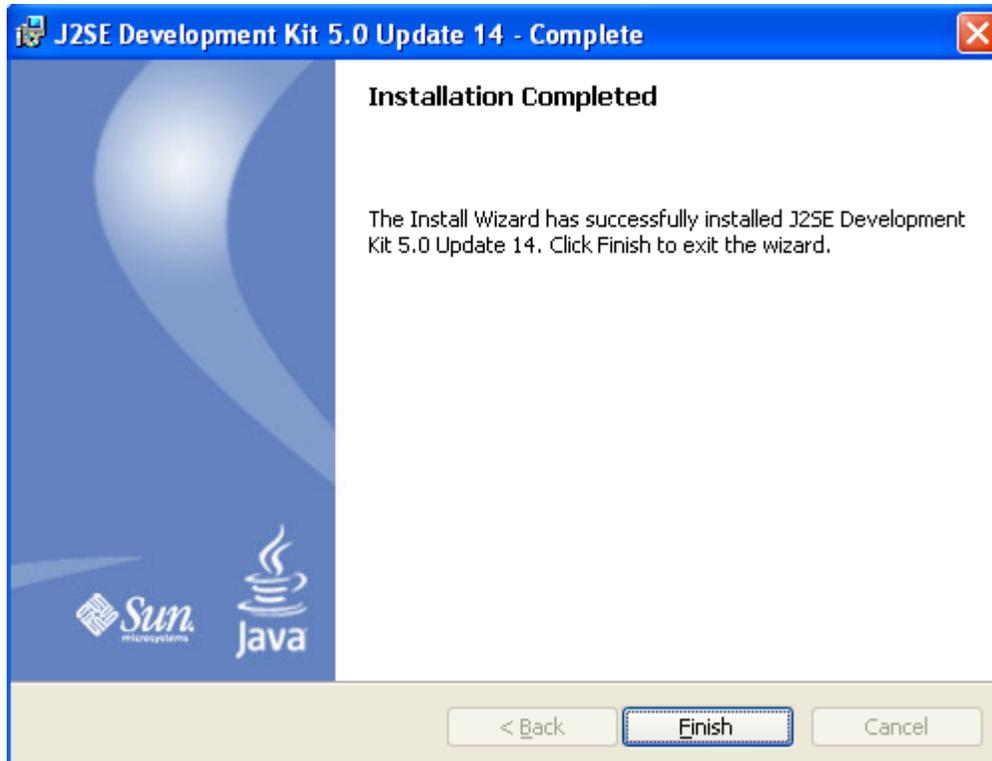


3. Accept the default path to install the JDK and click **Next**.

The *J2SE Runtime Environment* screen will appear.



4. Leave the default path for JRE and click **Next**.
5. In the *Browser Registration* screen, click **Next**. The install will proceed. Eventually, the installation will complete.



6. Click **Finish**.

Next you will configure the Environment Variables.

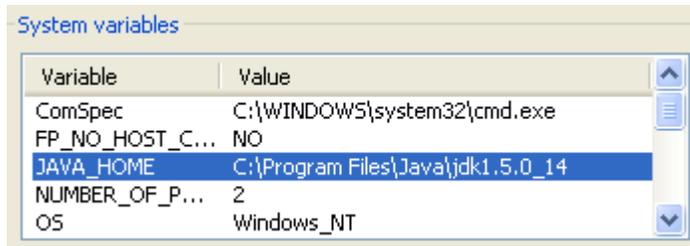
7. Open the Windows Control Panel by selecting **Start -> Control Panel**.
8. Open the System properties by double-clicking on **System**. You may need to “Switch to classic view”.
9. Show the Advanced options by selecting the **Advanced** tab along the top of the dialog.
10. Click the **Environment Variables** button.
11. There should be two lists of environment variables. Check both lists to be sure there is not a **JAVA_HOME** variable listed. If there is, select it and press the appropriate Delete button.
12. Create a new "System variable" by clicking the second **New** button down by the list of System variables.
13. Fill in the dialog for the new variable with the following:

Variable Name: **JAVA_HOME**

Variable Value: **C:\Program Files\Java\jdk1.5.0_14**

Sometimes it is easiest to open a Windows Explorer window, find the Java JDK installation directory and copy the location from the Address box.

14. When finished with the values for the new System variable, press the **OK** button and be sure it shows up in the second list of variables.



15. Select **Path** by scrolling down in the system variables list and click **Edit**.
16. In the dialog that opens, add to the System Path at the end of the line the following:
;C:\Program Files\Java\jdk1.5.0_14\bin
17. Press the **OK** button to close the *Edit Environment Variables* dialog for Path.
18. Press the **OK** button to close the *Environment Variables* dialog.
19. Press the **OK** button to close the *System Properties* dialog.
20. Restart the computer.

Verify Installation

This section will verify some of the installation steps you performed earlier. If any of this validation fails, notify Web Age Solutions technical staff so they may help you find the easiest way to correct the problem.

21. Open a Command Prompt window. You can do this by selecting **Start->Run**, entering `cmd` in the text box and pressing the **OK** button.
22. Enter the following command and be sure you get the output shown below:

```
java -version
```

Verify that the right Java version is installed.

```
C:\Documents and Settings\wasadmin>java -version
java version "1.5.0_14"
Java(TM) 2 Runtime Environment, Standard Edition (build 1.5.0_14-b03)
Java HotSpot(TM) Client VM (build 1.5.0_14-b03, mixed mode, sharing)
```

23. Enter the following command and be sure the value of the JAVA_HOME variable is output correctly:

```
set JAVA_HOME
```

Verify that the right Java path is configured.

```
C:\Documents and Settings\wasadmin>set JAVA_HOME
JAVA_HOME=C:\Program Files\Java\jdk1.5.0_14
```

24. Close the command prompt window.

JDK 1.5 is now installed.

Part 9 - Installing .NET Framework 3.5

These steps may not apply to your version of windows. Please verify the proper steps for installing this .NET Framework on your windows version.

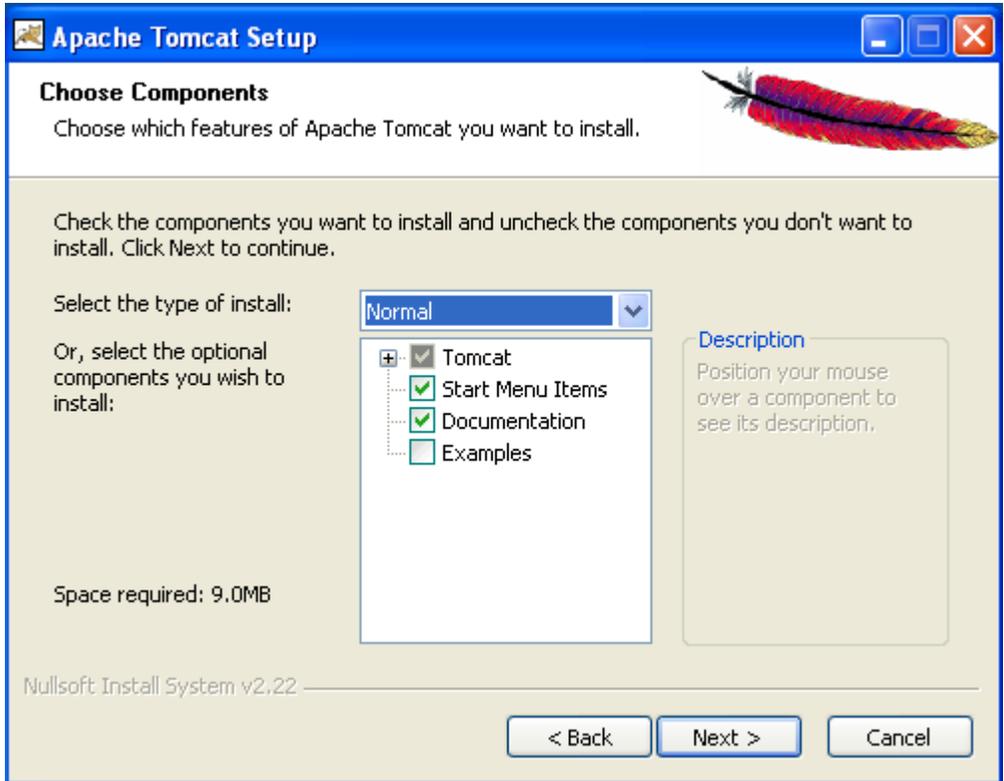
1. From the CD copy **dotNetFx35setup.exe** to **C:\Software**
2. From **C:\Software** run the **dotNetFx35setup.exe** file using the default setup.

Part 10 - Installing Apache Tomcat 6

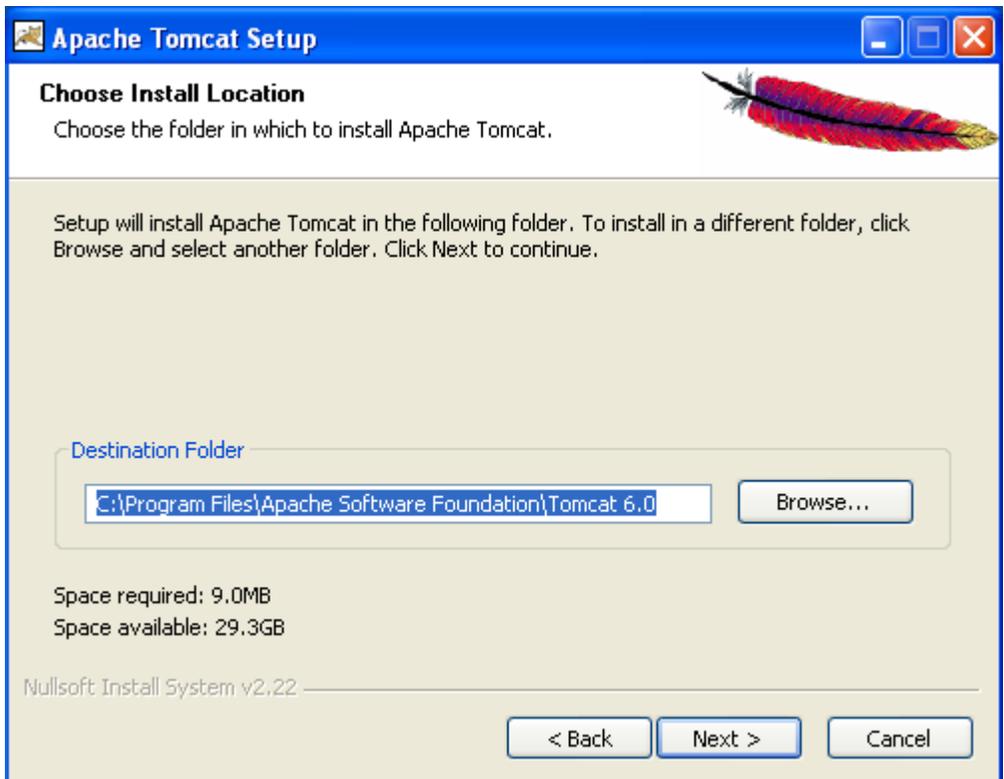
1. From C:\Software launch **apache-tomcat-6.0.14.exe**.
2. At the *Welcome* screen click **Next**.



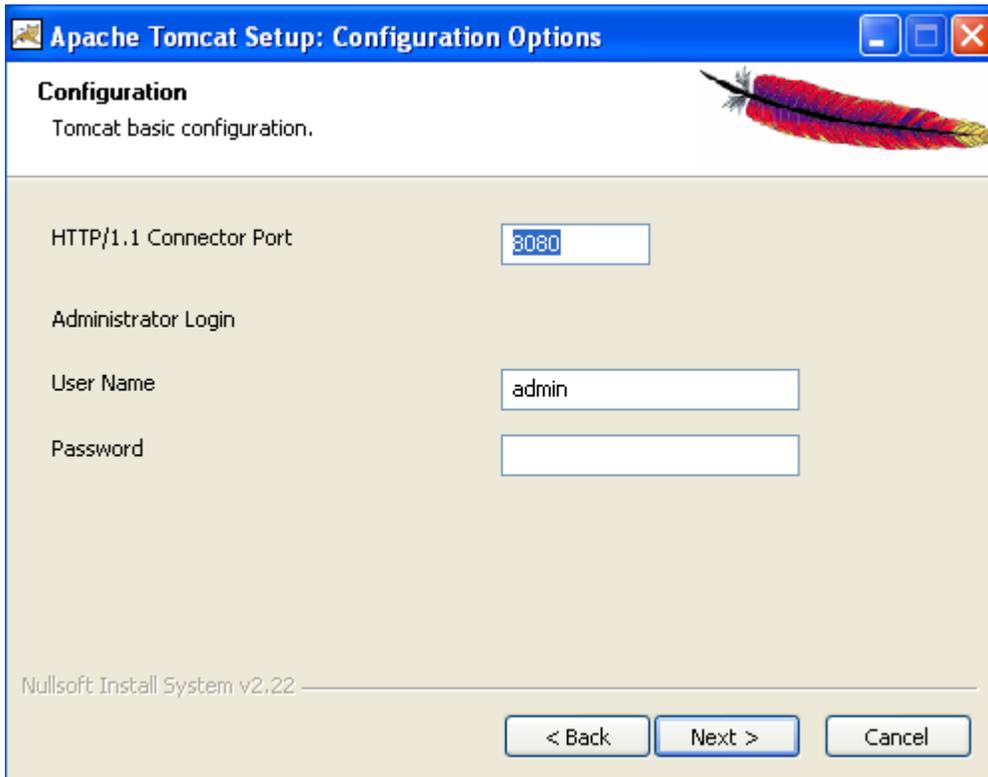
3. In the *Licence agreement* screen, click **I Agree**.
4. In the *Choose Components* screen, click **Next**.



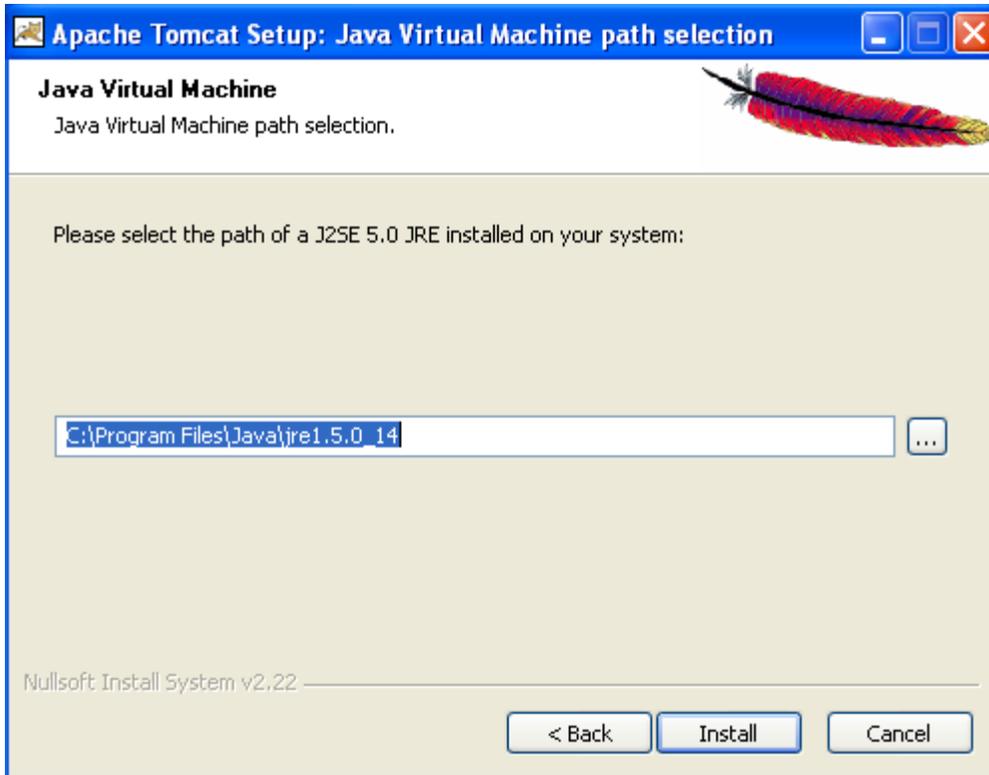
5. Leave the default Destination Folder in the *Choose Install Location* screen and click **Next**.



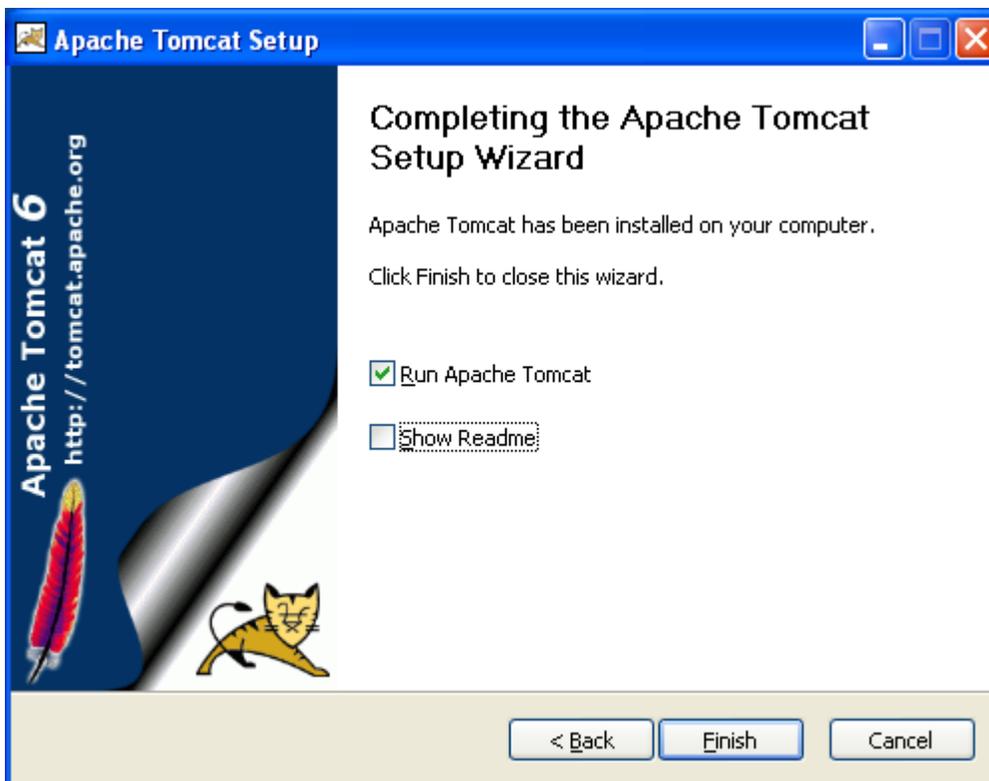
6. In the *Configuration* screen, leave the defaults of HTTP/1.1 Connector Port as 8080, User Name as admin and “empty” in password and click **Next**.



7. In the *Java Virtual Machine* screen, leave the default path and click **Install**.



8. When the *Completing the Apache Tomcat Setup Wizard* message appears, uncheck *Show Readme* and click **Finish**.



9. Verify that Apache Tomcat is started as shown below.

