# WA2170 Mastering JAX-RS REST Web Services and AJAX Clients - WebSphere 8.5 / RAD 8.5 Training

## Classroom Setup Guide

## Web Age Solutions Inc.

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## Part 1 - Minimum Hardware Requirements

- 2 GHz Pentium IV
- 2 GB RAM minimum, 3 GB recommended
- 25 GB in the hard disk

## Part 2 - Minimum Software Requirements

- Windows 7 (Professional, Enterprise, or Ultimate)
- Firefox latest version
- Chrome latest version
- Adobe Acrobat Reader
- Zip extraction utility
- Rational Application Developer 8.5.0 Trial *

* - indicates software provided as part of the courseware.

## Part 3 - Software Provided

List of ZIP files required for this course and used in next steps on this document:

- **WA2170_1.ZIP**
- **WA2170_2.ZIP**
- **WA2170_3.ZIP**

Send an email to support@webagesolutions.com in order to obtain a copy of the software for this course if you haven't receive it yet.

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. Extract all the **.ZIP** files to **C:**

__2. Review that the following folders were created:

- **C:\LabFiles**
- **C:\Software\RAD**
- **C:\Software\RAD_SETUP**
- **C:\Software\RESTClient**
- **C:\Software\WAS85**

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## Part 6 - Installing Rational Application Developer v8.5 Trial (RAD 8.5)

Average time for installation of RAD 8.5 Trial: 60 minutes.

**Note:** If installing on Windows Vista, Windows 7, or Windows Server 2008 there will be several notes about special steps required on these platforms. Failure to follow these additional steps will lead to an unusable installation.

__1. Before you begin, please shut down any running applications. The installation process is quite CPU/disk intensive.

__2. From **C:\Software\RAD_SETUP**, right click the **launchpad.exe** program and select '**Run as Administrator**' and accept any security prompts. The installer will begin.

__3. Click **Install IBM Rational Application Developer for WebSphere Software**.

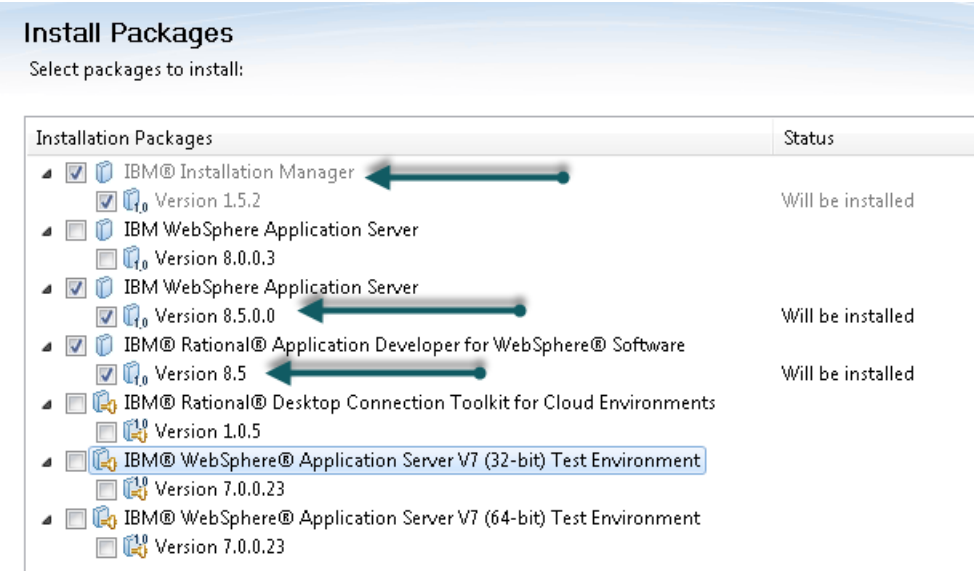
A new program – the **IBM Installation Manager** will launch. You will then be prompted to *Install Packages*. These may take some seconds to start.

__4. From the *Install Packages* screen only leave checked the following packages:

- **IBM Installation Manager**
- **IBM WebSphere Application Server - Version 8.5.00**
- **IBM Rational Application Developer for WebSphere - Version 8.5**

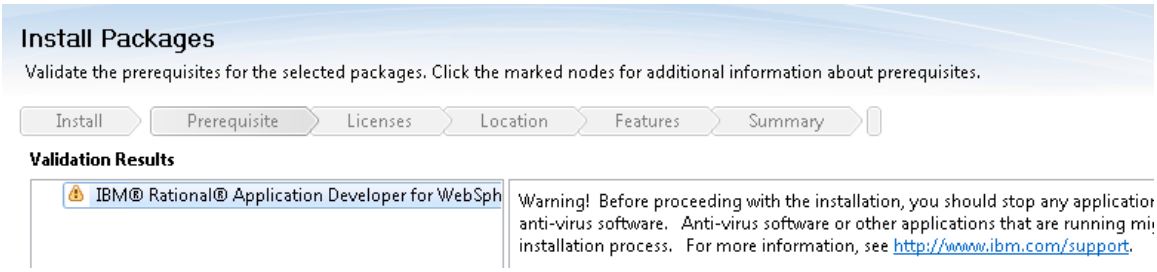
**Note:** Depending on the operating system you may not see the 64-bit WebSphere Application Server options.

__5. Make sure only the following packages are selected and click **Next**.




The *Validation Results* page will appear.

__6. Check that you don't have any validation errors except the warning about stopping running programs including anti-virus software and click the **Next** button.



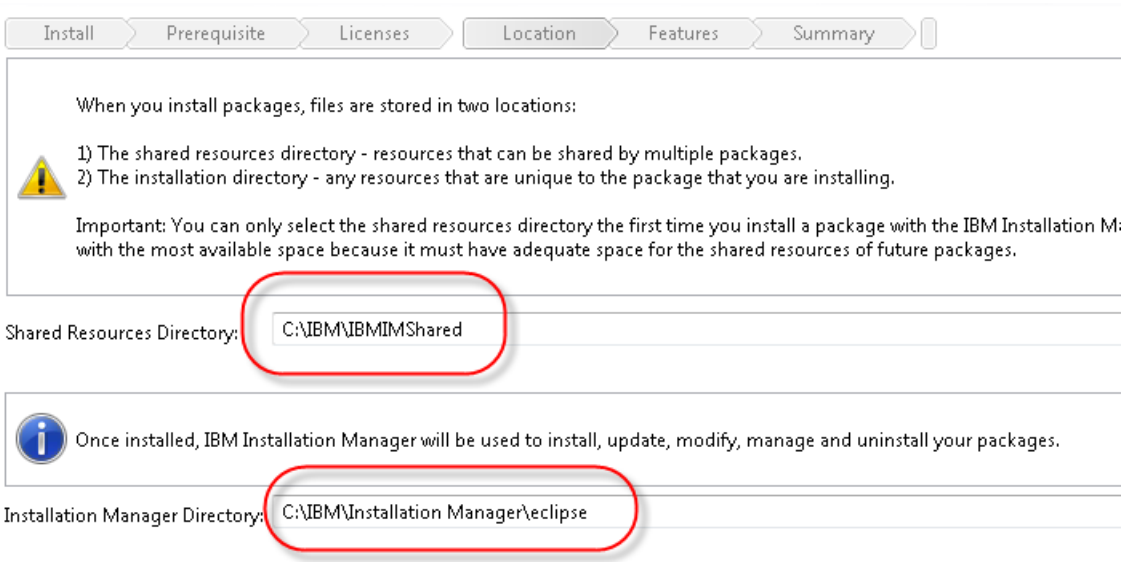
The *License Agreement* screen will appear.

__7. At the bottom of the screen, select **I accept the terms in the license agreements** and click **Next**.

You will be asked to select a location for the Installation Manager.

__8. **Change** the *Shared Resources Directory* and *Installation Manager Directory* to the values below and click **Next**.

- Shared Resources Directory: **C:\IBM\IBMIMShared**
- Installation Manager Directory: **C:\IBM\Installation Manager\eclipse**



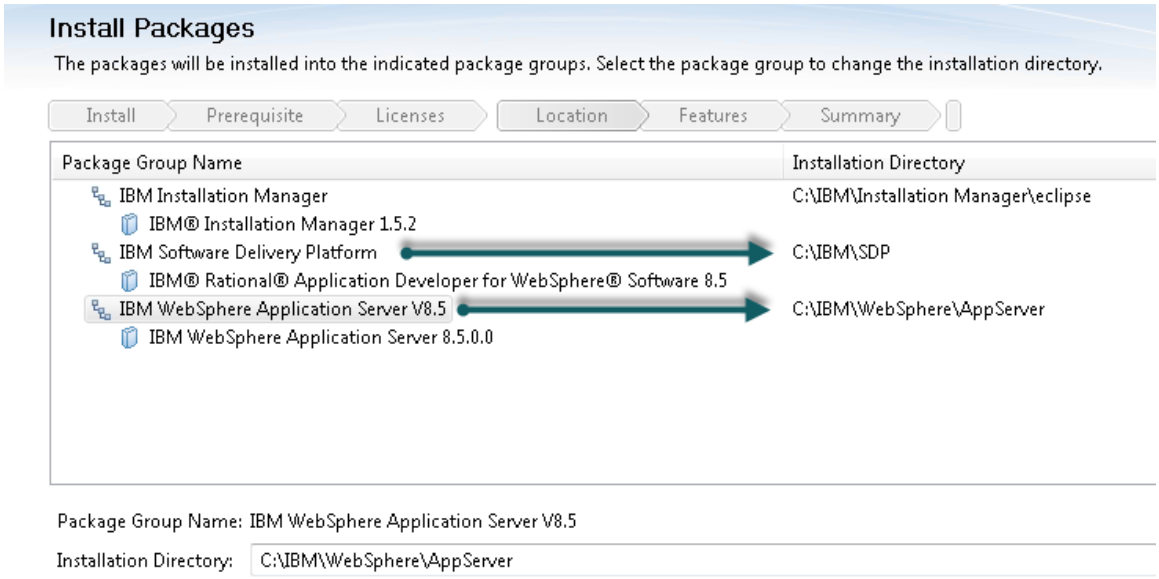

**Note:** This step is important to avoid permission issues with the 'Program Files' directory.

__9. Select each of the following entries from the 'Package Group Name' list and **modify** the '**Installation Directory**' to the value listed.

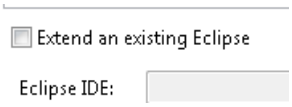
- IBM Software Delivery Platform: **C:\IBM\SDP**
- IBM WebSphere Application Server V8.5: **C:\IBM\WebSphere\AppServer**

**Note:** It is especially critical to modify the directory the WebSphere Application Server test environment is installed to. Installing under 'Program Files' can cause permission issues with saving configuration changes.

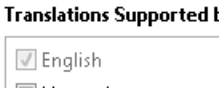
__10. Verify the installation locations as shown below and click the **Next** button.



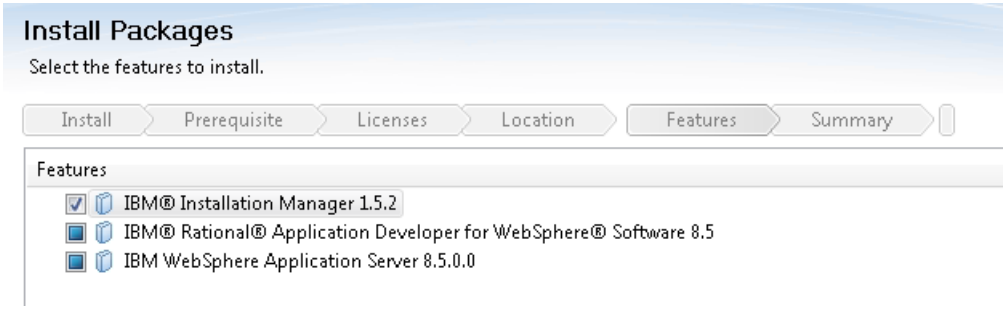

__11. Leave the option to extend an existing Eclipse installation unselected and click the **Next** button.



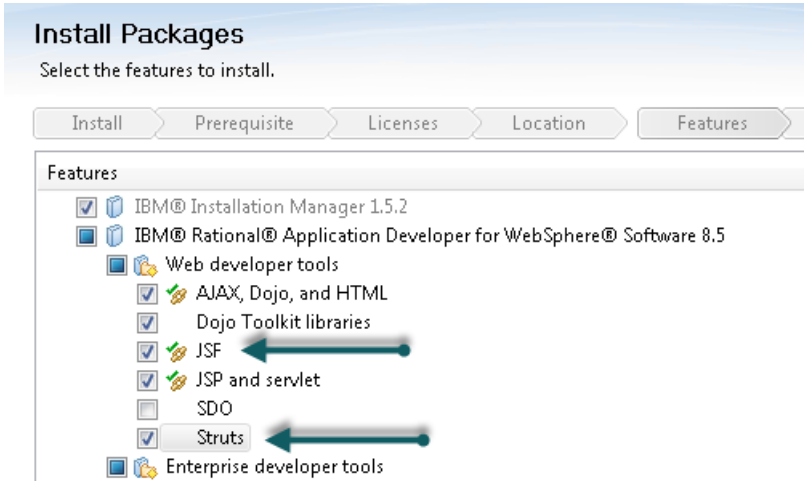
__12. Leave the default language selection and click the **Next** button.




__13. The Packages page will open. Click **Expand All** button below the frame.



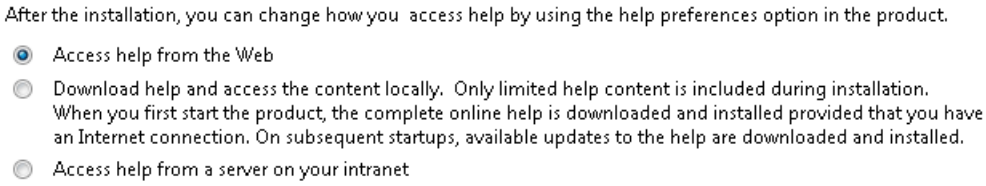

__14. Under **IBM Rational Application Developer for WebSphere 8.5**, check the boxes for **JSF** and **Struts** as shown below.




**Note**. This step is very important to be able to create JSF pages during the Labs.

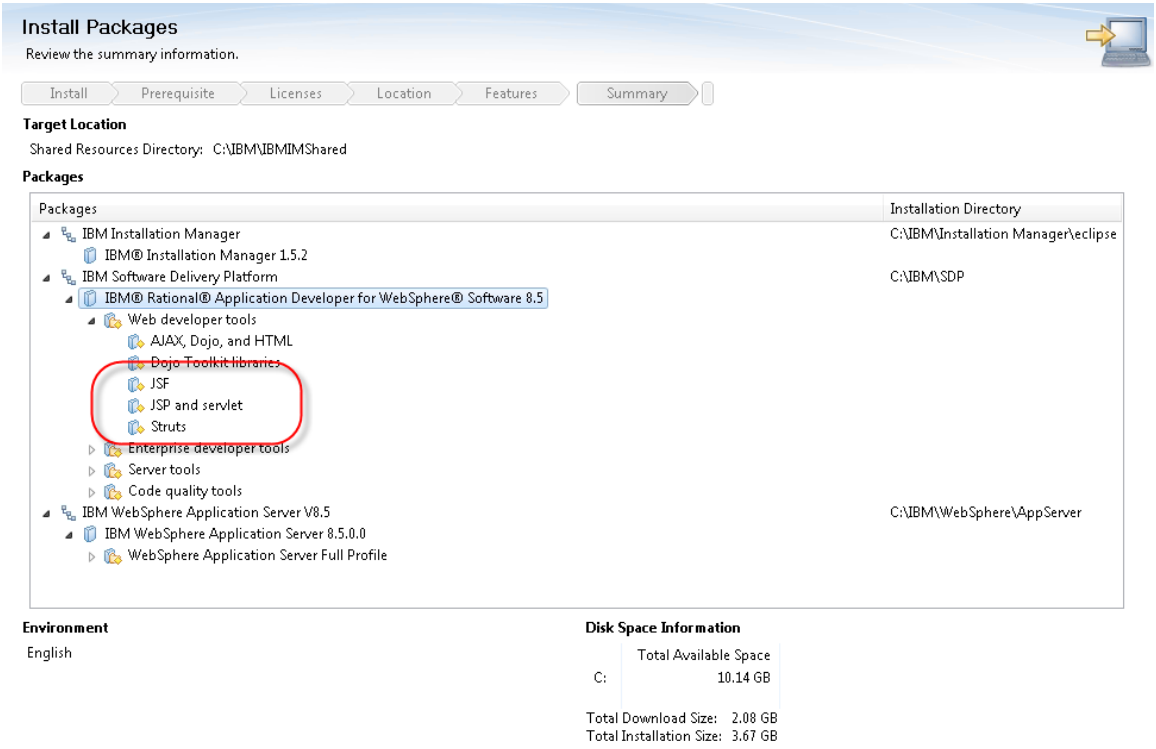
__15. Make sure you didn't change anything else and then click **Next**.

__16. For the option for the *Help System* leave the option of **Access help from the Web** selected and click the **Next** button.

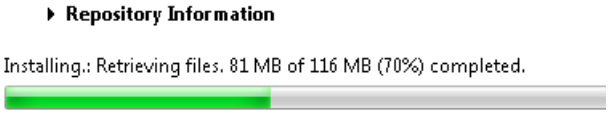



**Note:** This option is selected because otherwise RAD will want to download help information every time RAD starts. Even if students are in a classroom without an internet connection the install of RAD can still complete.

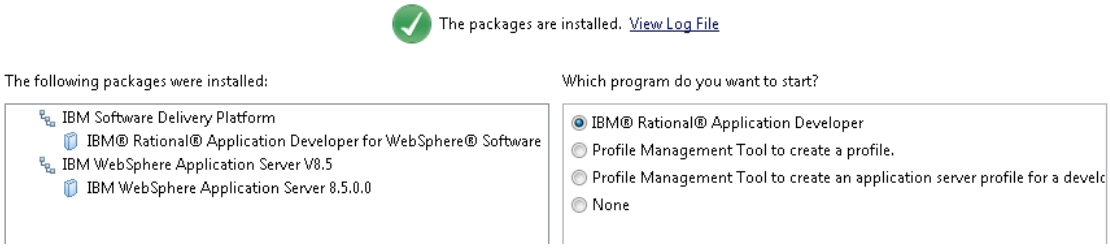
__17. You will be asked to review summary information. Expand **IBM Rational Application Developer for WebSphere 8.5 > Web developer tools** and verify **JSF** and **Struts** are included as shown below and then click **Install**.



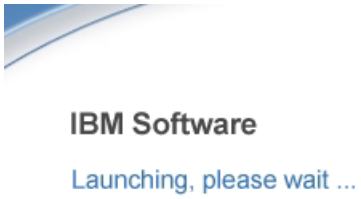
Installation will start and may take some time.



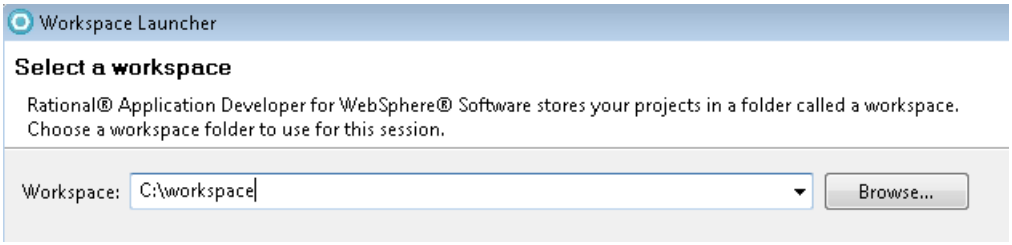

__18. When the installation is completed the following window will open, leave the option '**IBM Rational Application Developer**' selected and click the **Finish** button.




IBM Software window will open.



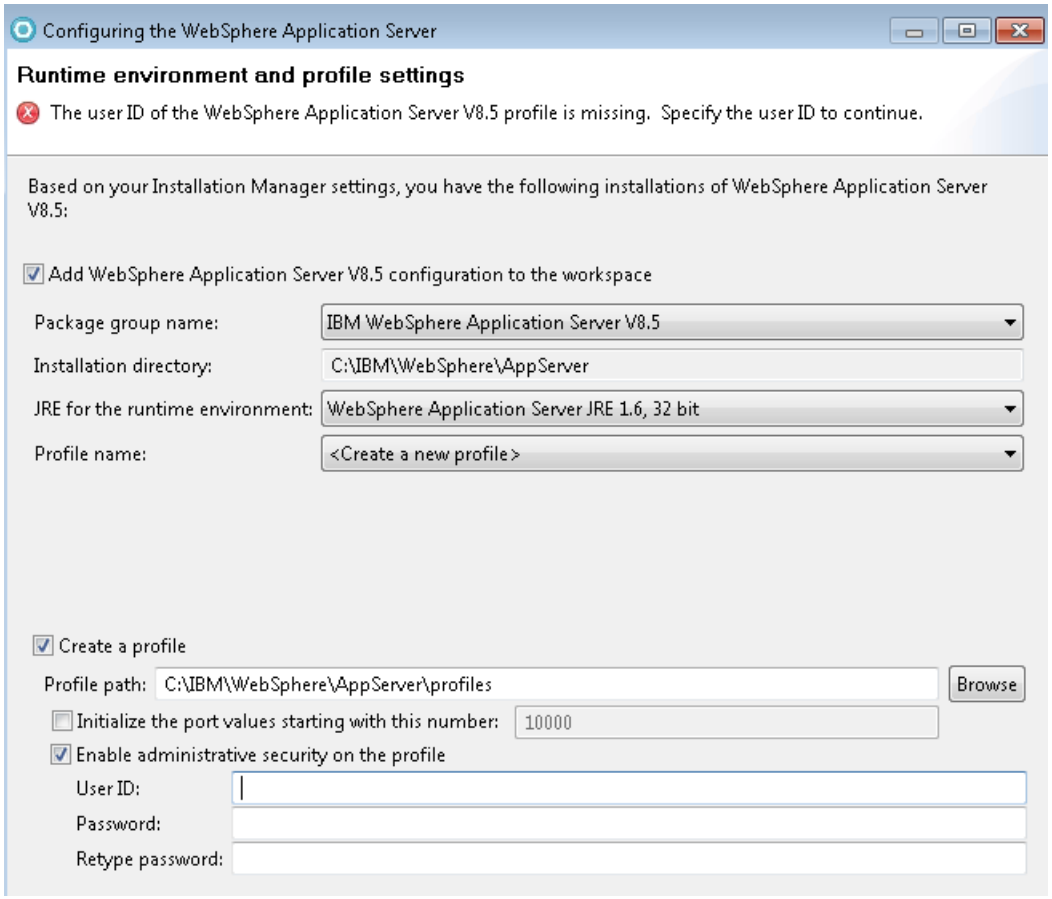

__19. In the workspace window, change the **Workspace** to **C:\workspace** and click **OK**.



RAD will start.

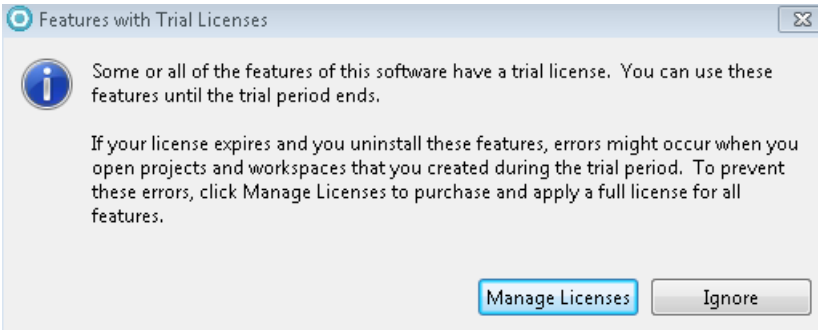
__20. If prompted by Windows firewall security unblock the program.

__21. In the *Runtime environment and profile settings* dialog that appears click the **Cancel** button.



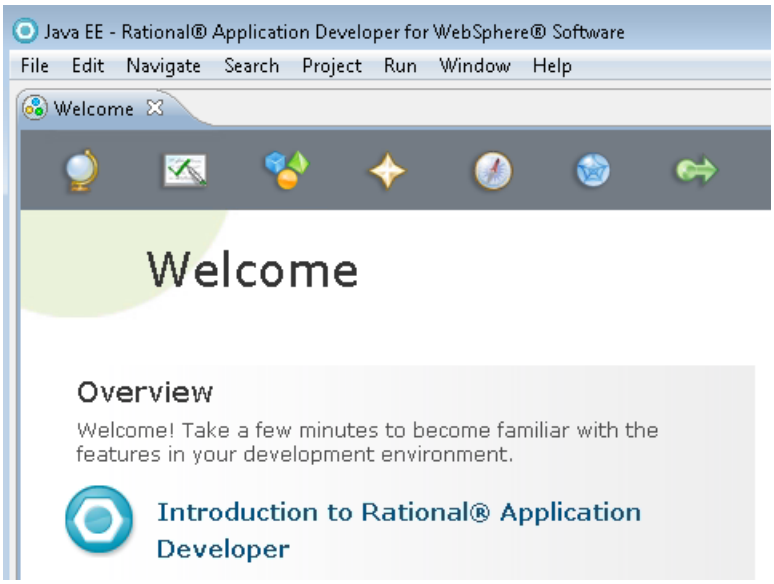

**Note:** It is important that you cancel creating a profile. Students will create a profile to be sure it is accessible to them.

__22. The **Features with Trial Licenses** dialog will open, click **Ignore**.




__23. If prompted about help content select **Work without Help**.

The Welcome page will open.




__24. From the menu, select **File → Exit** to close Rational Application Developer.

__25. Close all open windows.

## Part 7 - Verification of the installation of RAD 8.5

__1. Open the following file:

```
C:\IBM\WebSphere\AppServer\logs\postinstall\postinstall.log
```

__2. Look at the end of the file for the message:

```
    <level>INFO</level>
    <class>com.ibm.ws.postinstall.LaunchUnifiedPostInstaller</class>
    <method>logReturnCode</method>
    <thread>0</thread>
    <message>INSTCONFSUCCESS: All config actions ran successfully with return code 0</message>
</record>
</log>
```

If you see the message INSTCONFSUCCESS, it means that WebSphere Application Server was installed properly.

__3. Close all open files.

## Part 8 - Modify File Permissions

**Note**: These steps allow full access to the directories used by the RAD and WebSphere installs. This is required so that students can start the WebSphere server from within RAD and will allow the WebSphere server to write to the log files. Without these steps the students won't be able to start the WebSphere server and won't be able to do the labs.

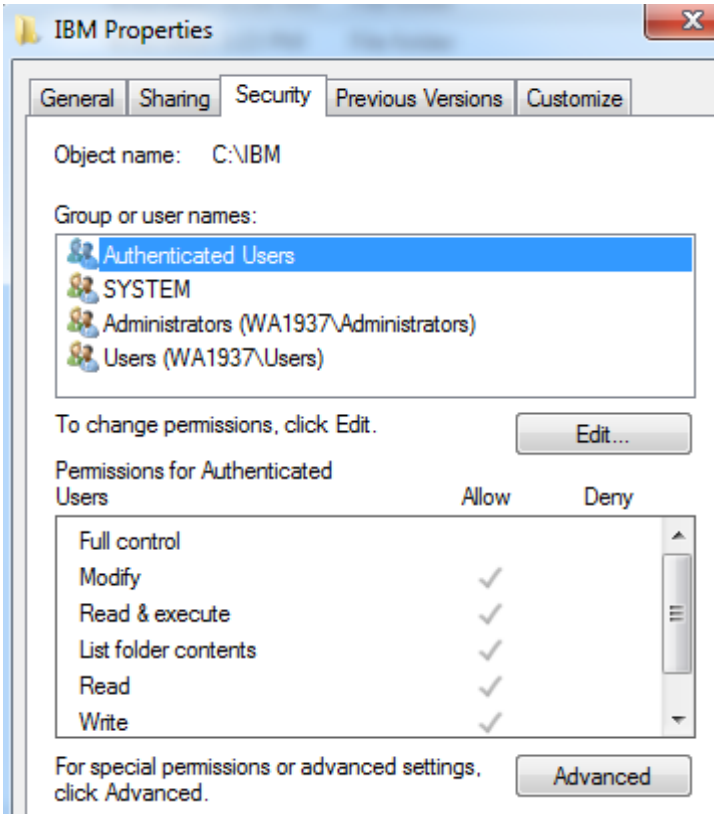
**These steps to modify folder permissions should be done no matter what version of Windows is used.**

The steps to accomplish this may vary by Windows version but the goal is the same, granting access to all users to the RAD and WebSphere install. If you have questions about how to accomplish this contact the setup support person for the class.

__1. Right click C:**IBM** and select **Properties**.

__2. Click the **Security** tab.

__3. Click **Advanced**.

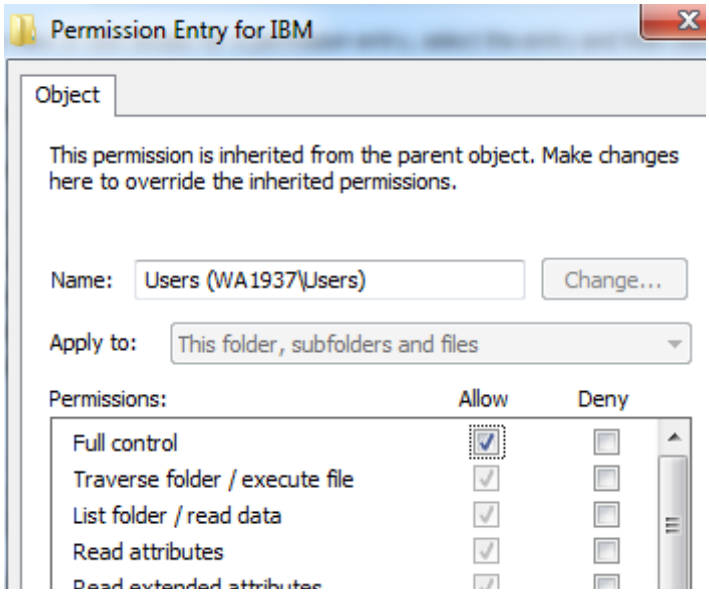



__4. Click **Change Permissions**.

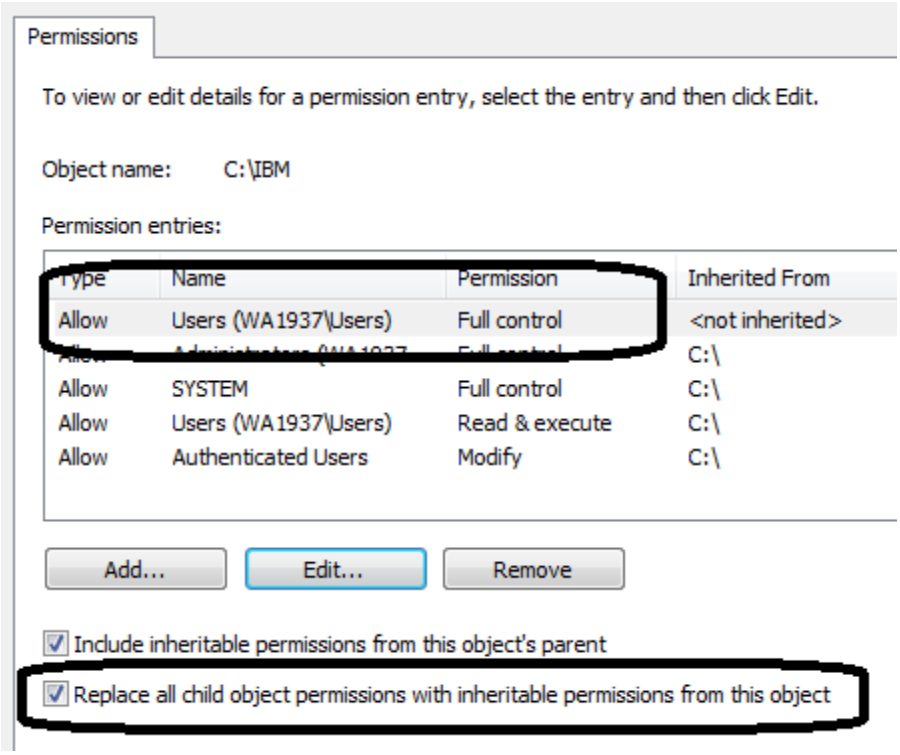
__5. Select the **Users** entry **(add one if not present)**.

__6. Click **Edit…**

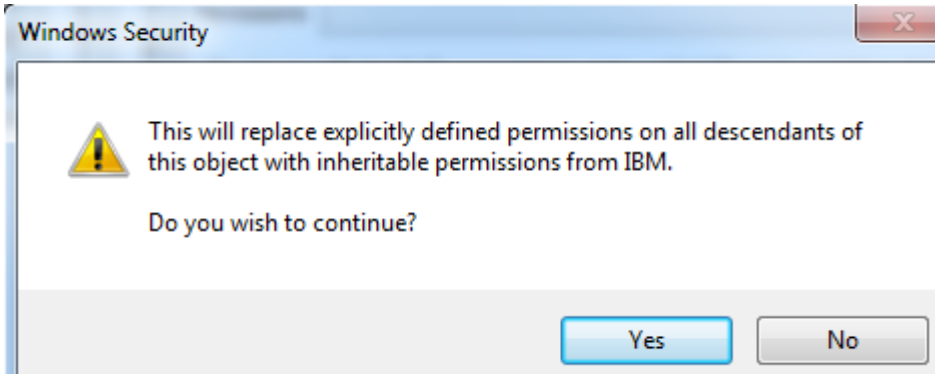
__7. Check **Full Control** permission option and click **OK**.




__8. Select the check box for **"Replace all child permissions with inheritable permissions from this objects"** and then click **OK**.



__9. A *Windows security* dialog will open, click **Yes**.




__10. Wait until Windows finishes updating security, and close all windows when it is done.

__11. Give full privileges to **C:\LabFiles** and **C:\workspace** to all users as you just did it for C:\IBM.

__12. Restart the computer and login with the user that the student will use to do the Labs.

__13. Make sure the user has full access to **C:\LabFiles** and **C:\workspace** as well as **C:\IBM** folders.

Congratulations, **Rational Application Developer** has been installed.

### Part 9 - Summary

## You have successfully installed the software for this course!

If you have any question please contact us by email at support@webagesolutions.com

From US and Canada call: 1-877-812-8887 ext. 26

International call: 416-406-3994 ext. 26