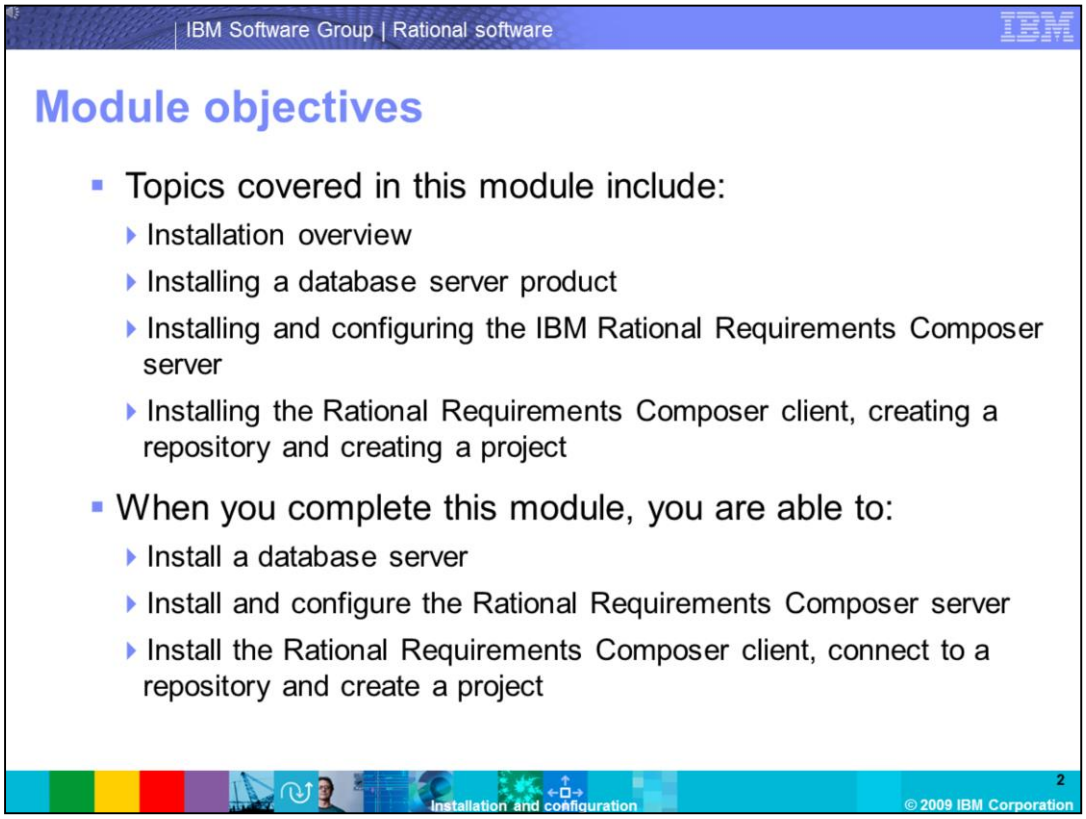
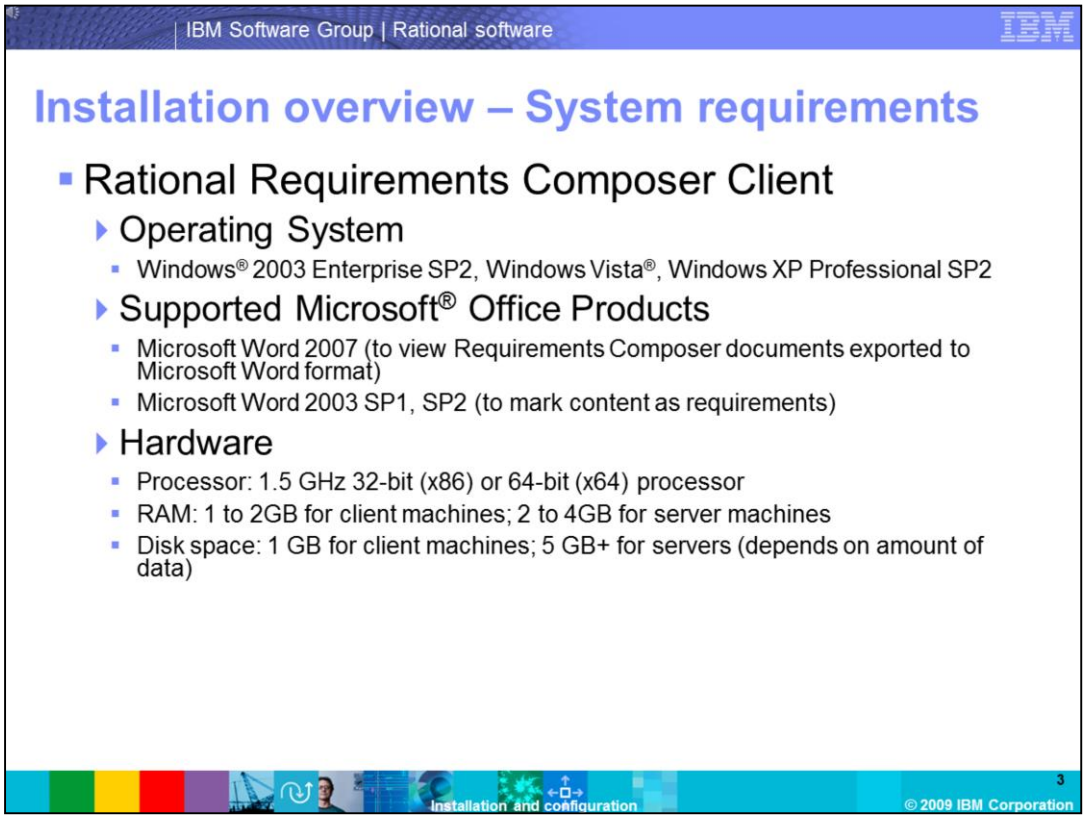
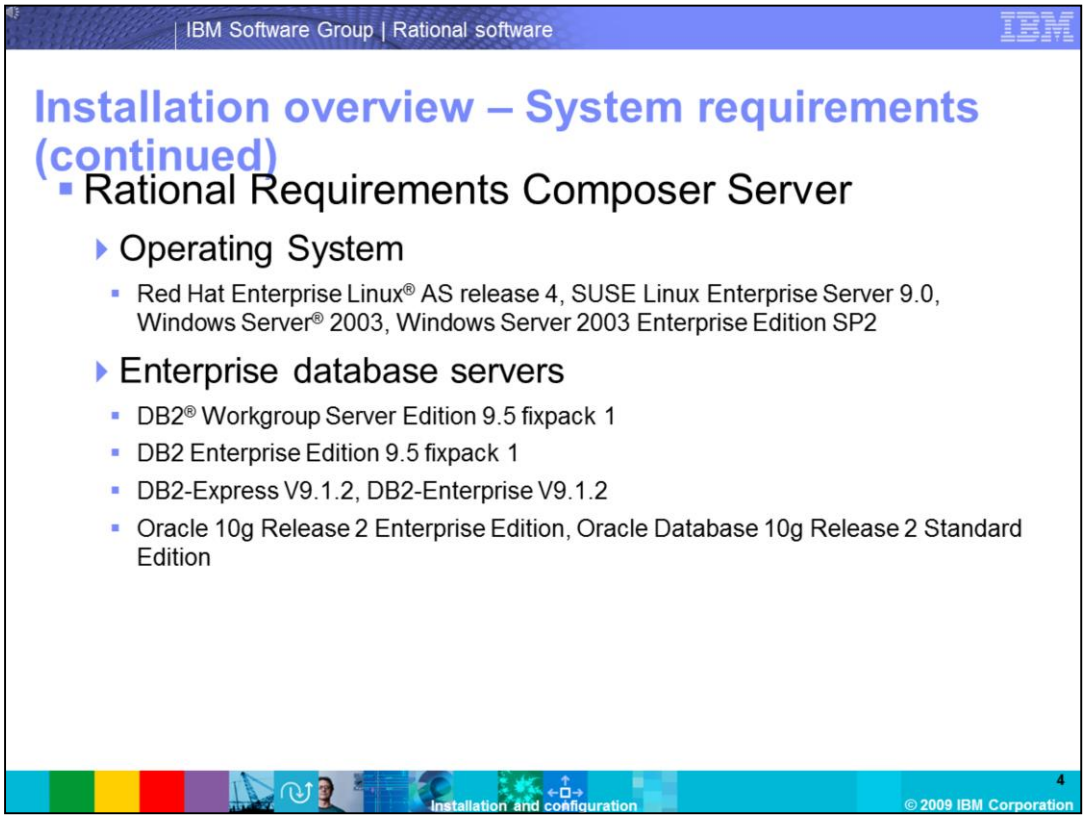
This module will cover the standard installation and configuration for IBM Rational® Requirements Composer versions 1.0 and higher.



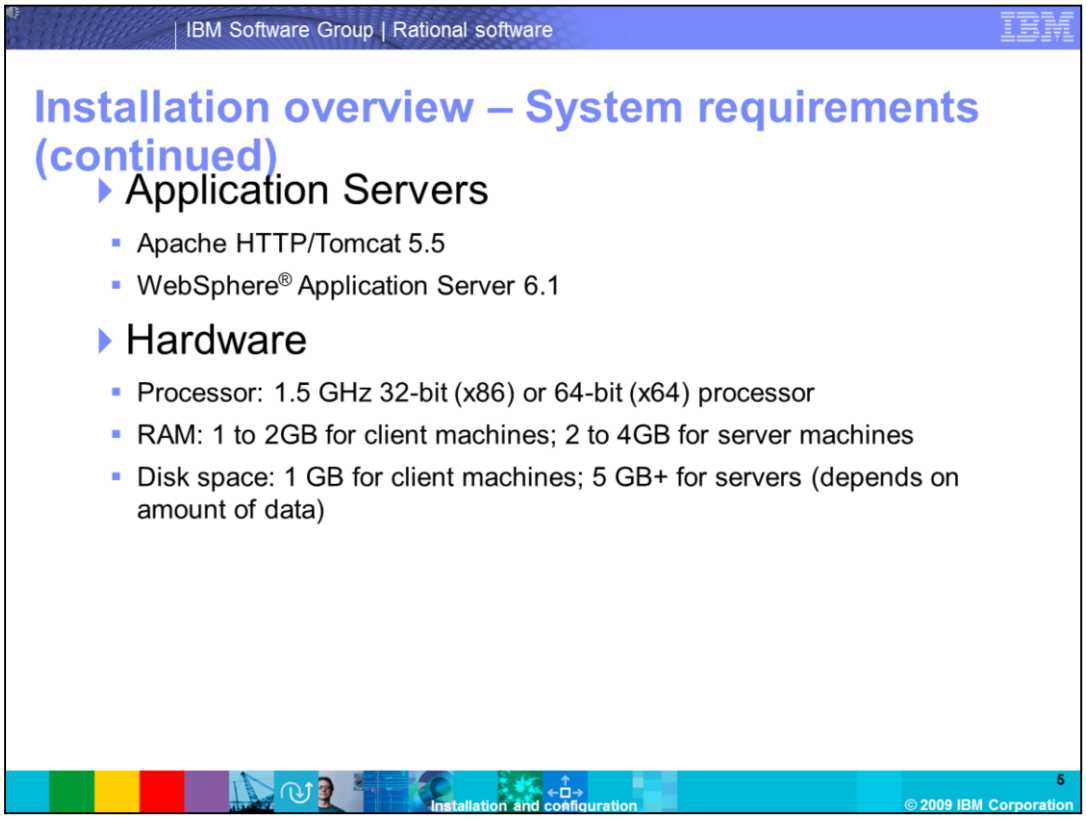
This course covers several topics. It covers the Installation overview, installing a database server product and installing and configuring the IBM Rational Requirements Composer server. It also covers installing the IBM Rational Requirements client, creating the IBM Rational Requirements repository and creating an IBM Rational Requirements project. When you complete this module, you will be able to install a database server. The database server is required to host the two Rational Requirements Composer databases that are created during the server initialization. You will also install the Rational Requirements Composer Server and configure the server after the installation. After installing the database server and the Rational Requirements Composer server, you are able to connect the Rational Requirements Composer client to the server in order to start working within the application.



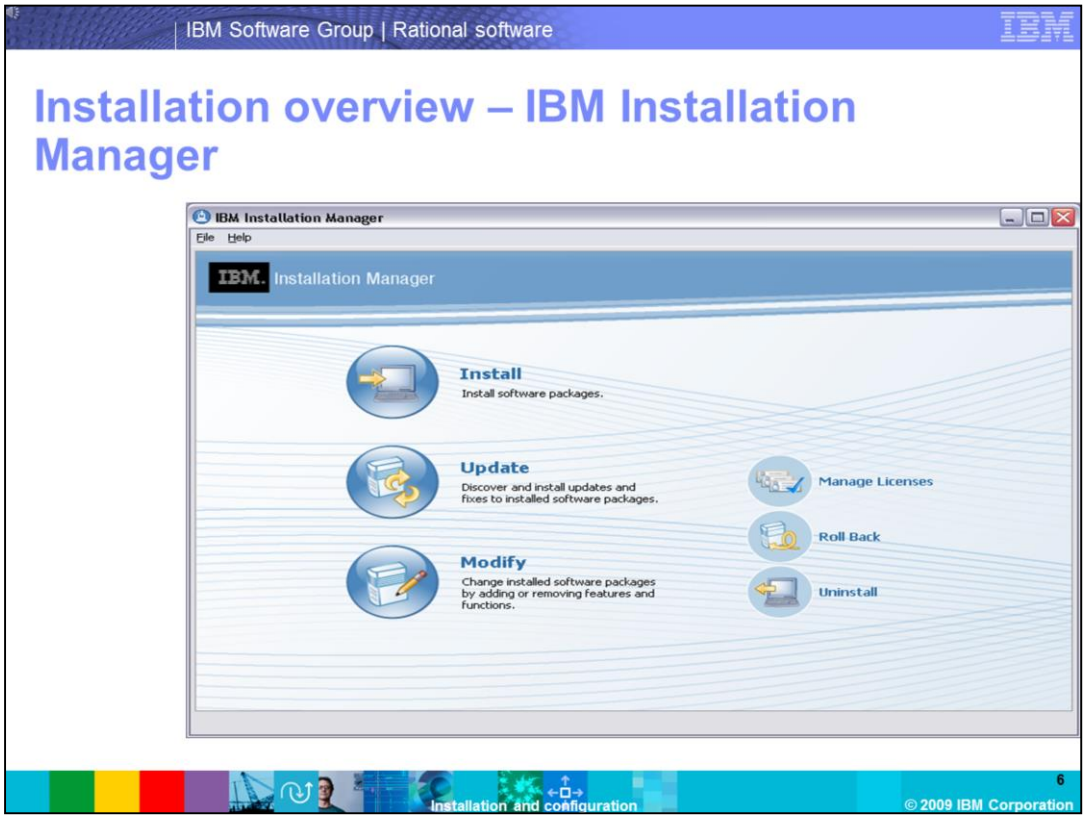
This slide covers the system requirements for the Rational Requirements Composer Client. The administrator will need to make sure that each workstation meets or exceeds these requirements before installing the Rational Requirements Composer client.



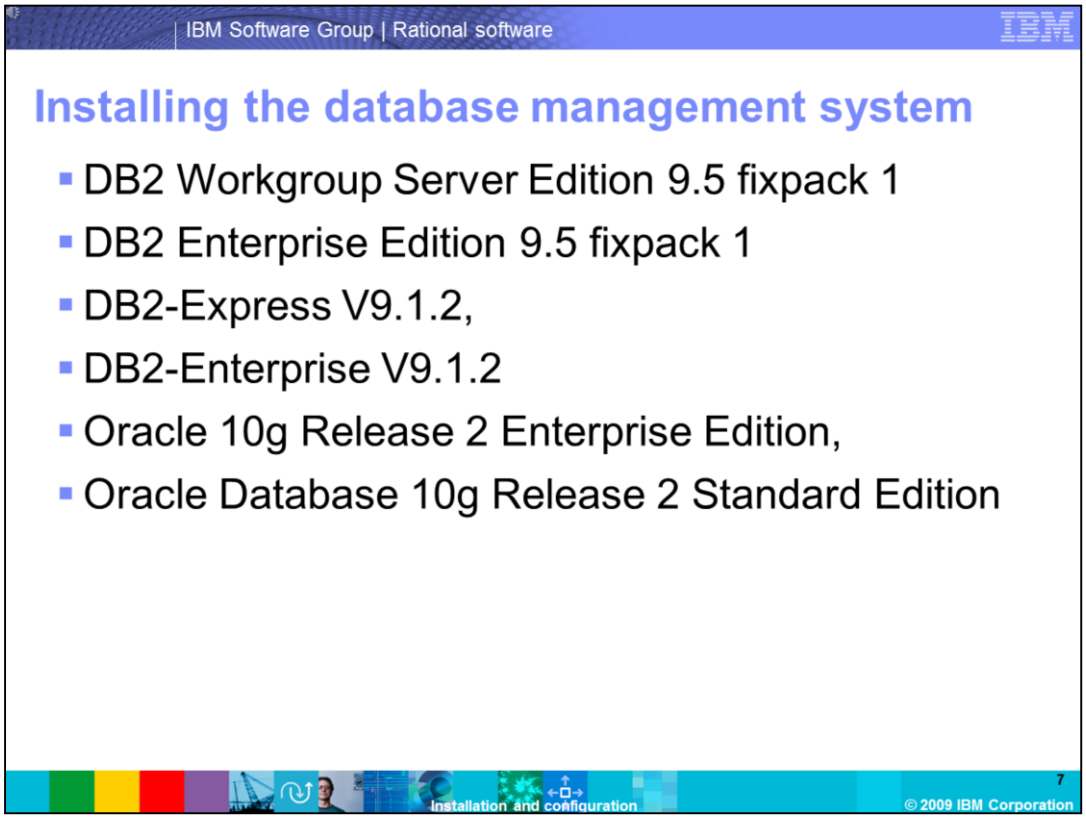
This slide covers the system requirements for the Rational Requirements Composer Server.



This is a continuation of the system requirements for the Rational Requirements Composer server.



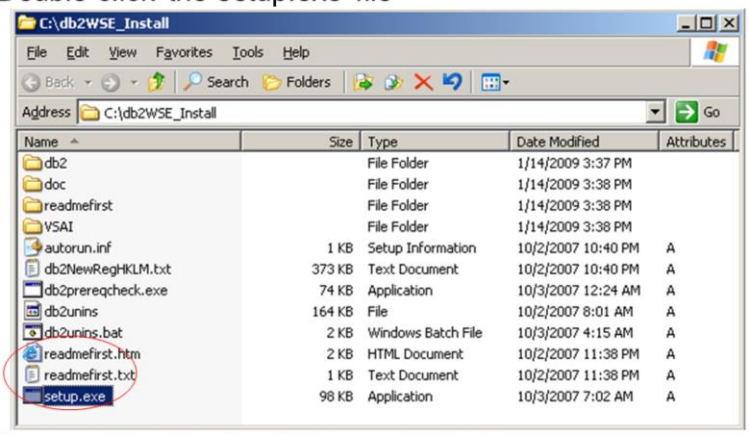
IBM Installation Manager for Rational Software Delivery Platform is an installation management tool that installs and maintains Installation Manager-based software packages. IBM Installation Manager enables you to modify feature sets, search for updates, uninstall, and manage the licenses of installed software. If IBM Installation Manager is not already installed on the system, it is when you run the launchpad.exe. This topic is covered in a later section.



Per the system requirements, you can install one of six database servers. DB2 Workgroup Server Edition 9.5 fixpack 1, DB2 Enterprise Edition 9.5 fixpack 1, DB2-Express V9.1.2, DB2-Enterprise V9.1.2, Oracle 10g Release 2 Enterprise Edition and Oracle 10g Release 2 Standard Edition. In this demonstration, you will install DB2 Workgroup Server Edition 9.5, FixPack01 on Windows 2003 Server. The DB2 installer creates a default user name and password for the DB2 administrator. Keep a record of this information as you will need it when configuring the Rational Requirements Composer server. The default user for Windows is db2admin.

Installing the database management system (continued)

- Launching setup.exe
  - Access c:\db2WSE_Install
  - Double-click the setup.exe file



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To start the installation of DB2, launch the **setup.exe**. This file is located in the folder where you have extracted the installation bits (for example, c:\db2WSE_Install).

Installing the database management system (continued)

- Click **Install a Product**

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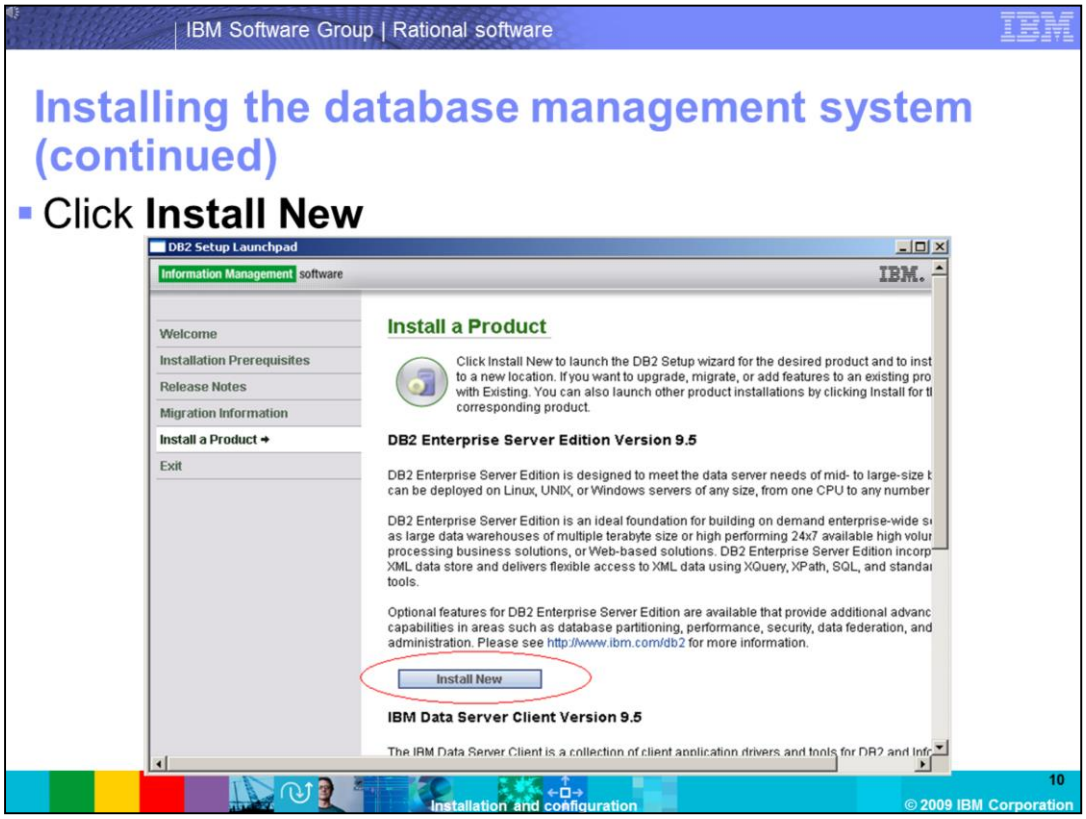
Click **Install a Product** to proceed with the installation.



Click **Install New** to start the installation of DB2 Enterprise Server Edition Version 9.5.

Installing the database management system (continued)

- Click **Next**

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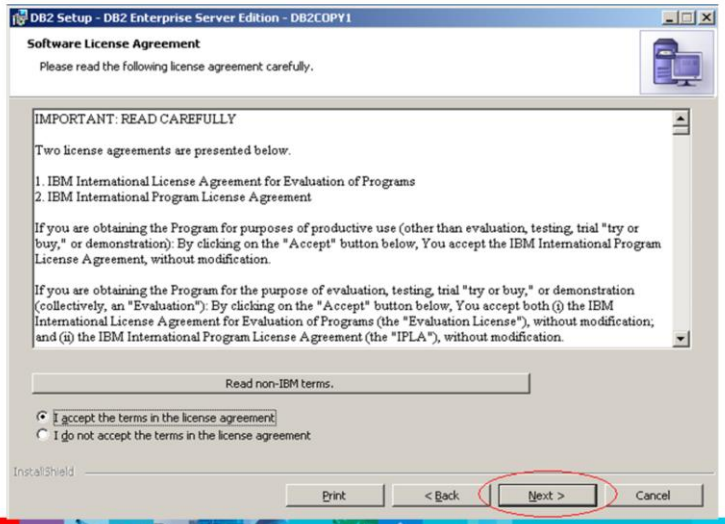
Click **Next** to allow the installer to continue with the installation.

Installing the database management system (continued)

- Accepting the license agreement

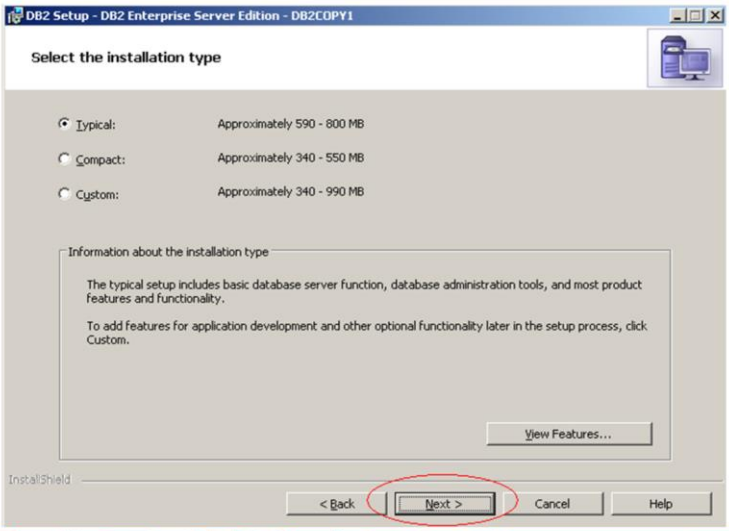


© 2009 IBM Corporation

Click "**I accept the terms in the license agreement**" and click **"Next"** to begin the installation.

Installing the database management system (continued)

- Select the installation type



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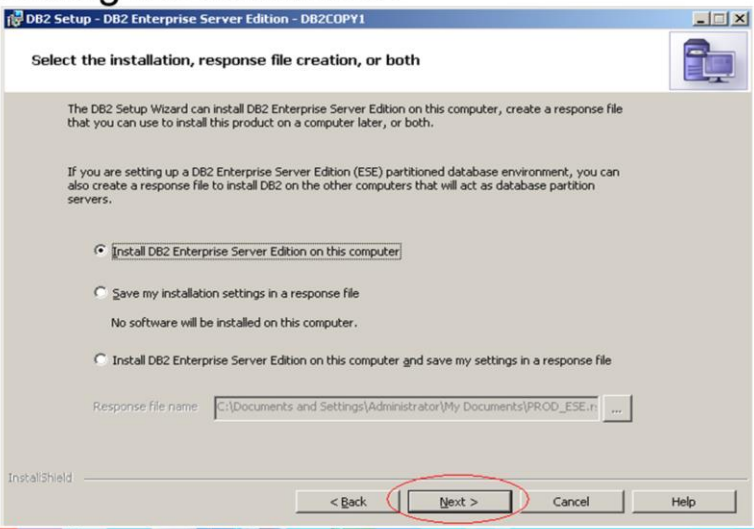
For this demonstration, you will accept the default installation options by selecting **Typical**. The typical installation will give you the common components required for running a DB2 server.

Installing the database management system (continued)

- Selecting the installation



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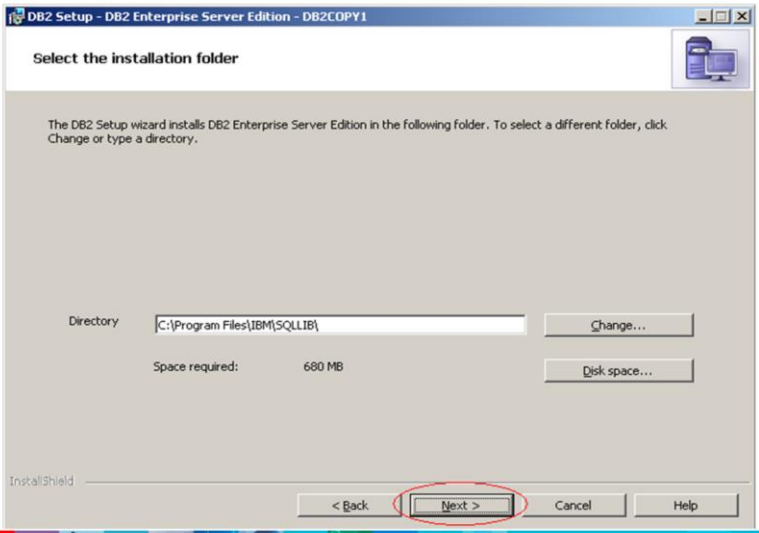
You will only install the DB2 server on one machine for this demonstration, so you will select the option to **Install DB2 Enterprise Server Edition** on this computer.

Installing the database management system (continued)

- Selecting the installation folder



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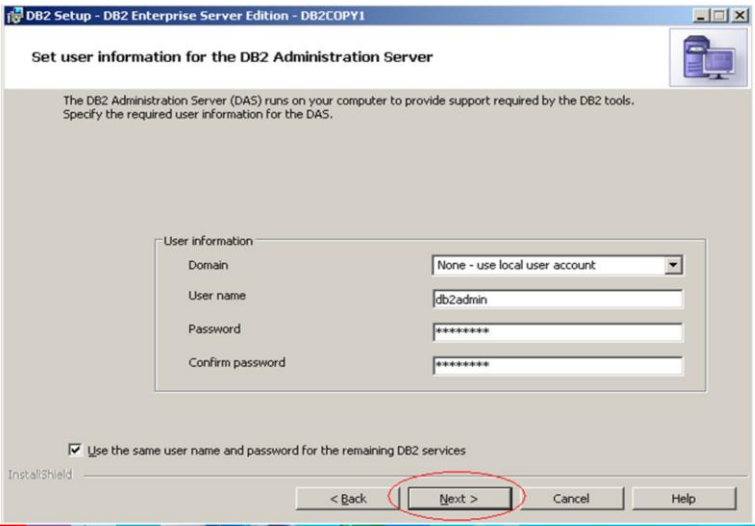
Select the installation folder. By default, DB2 is installed to **C:\Program Files\IBM\SQLLIB.**

Installing the database management system (continued)

- Creating the **DB2ADMIN** user



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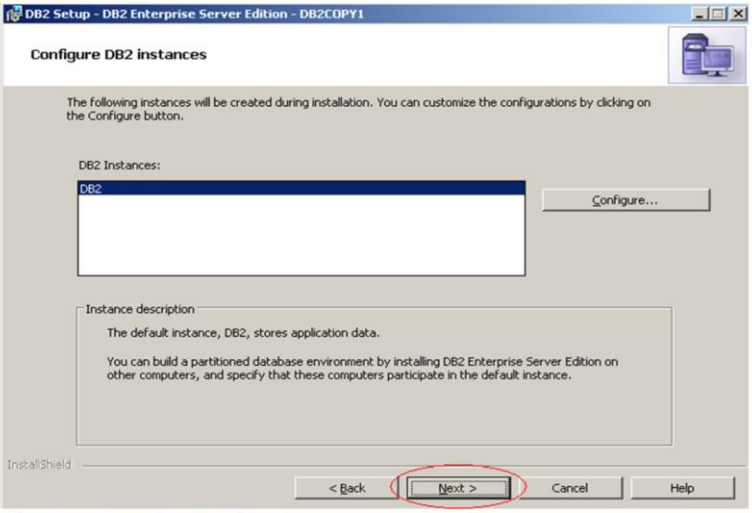
DB2 uses Operating System authentication to authenticate to a database. The DB2 installation creates a **DB2ADMIN** user that is a local administrator of the server. Set the password for the **DB2ADMIN** user, and take note of the password as you will need it when configuring the Rational Requirements Composer server.

Installing the database management system (continued)

- Configure the DB2 Instance



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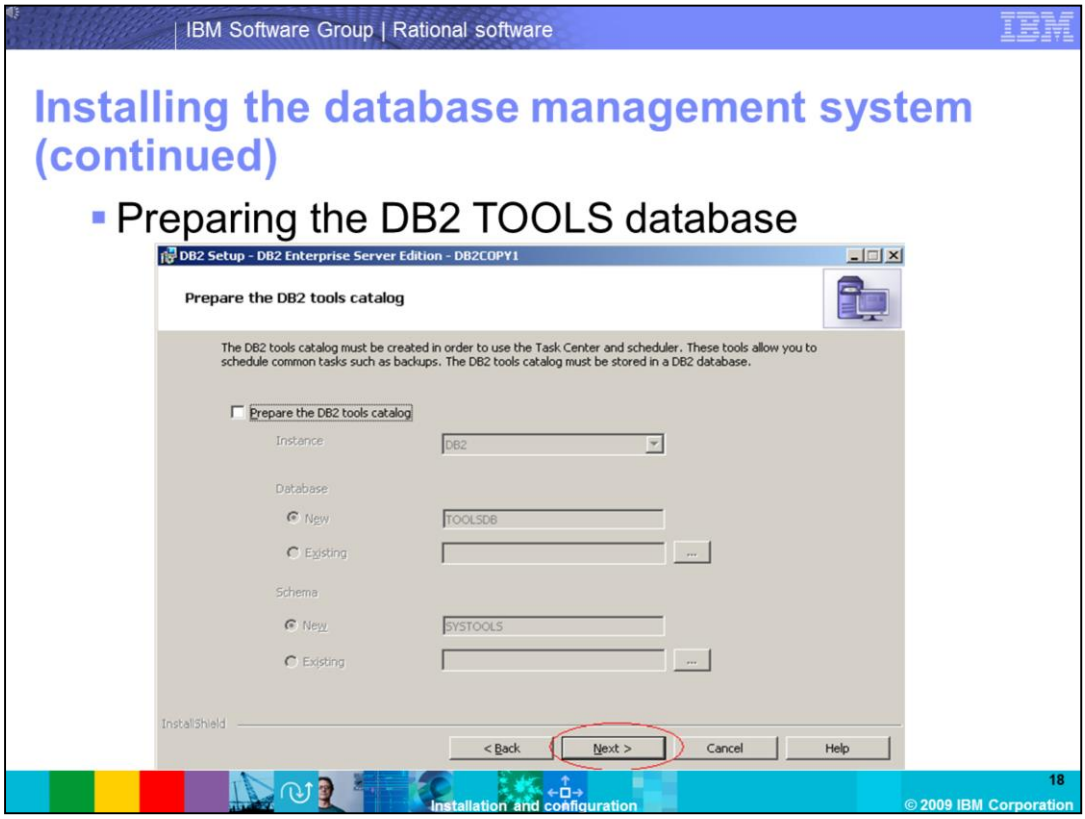
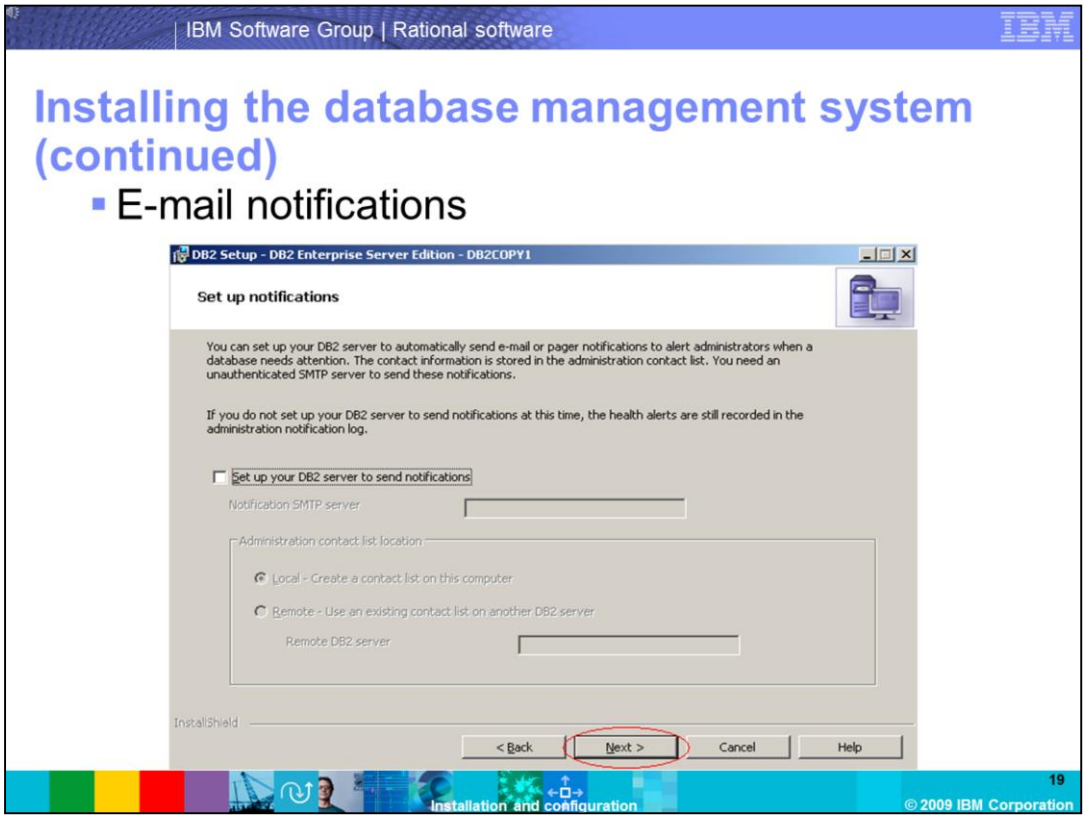
The default DB2 instance name is **DB2.** Keep this default instance name for the demonstration.



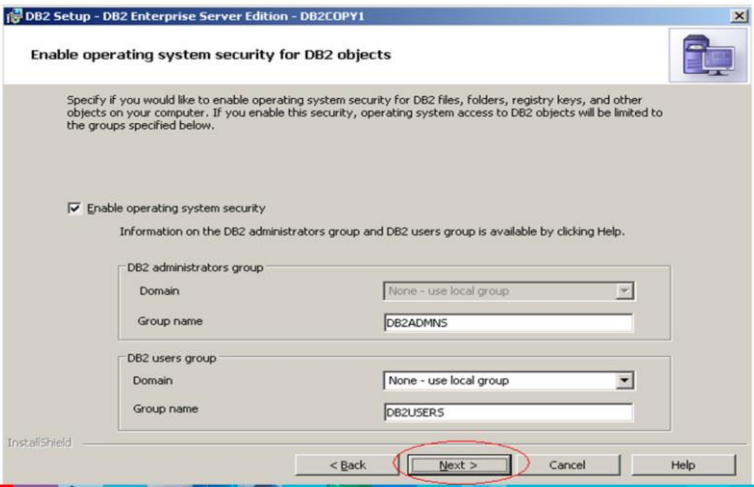
The **DB2 TOOLS** database is not required for the installation and configuration of the Rational Requirements Composer server. Skip the TOOLS database creation.



Skip e-mail notifications as this feature has no impact on the installation or configuration of the Rational Requirements Composer server. This is another database administrator task that can be configured at a later time.

Installing the database management system (continued)

- Enable Operating System security



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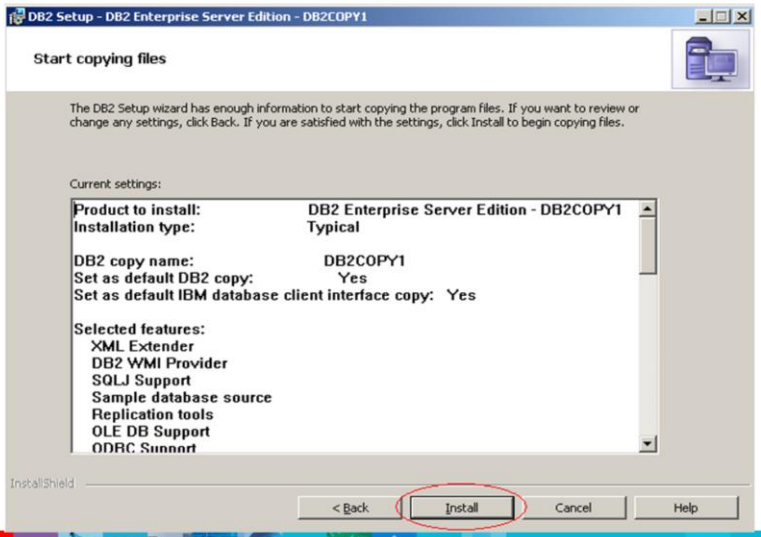
Accept the defaults for enabling operating system security. This will create the **DB2ADMNS OS** group, and the **DB2USERS** group on the server.

Installing the database management system (continued)

- Review settings and begin installation



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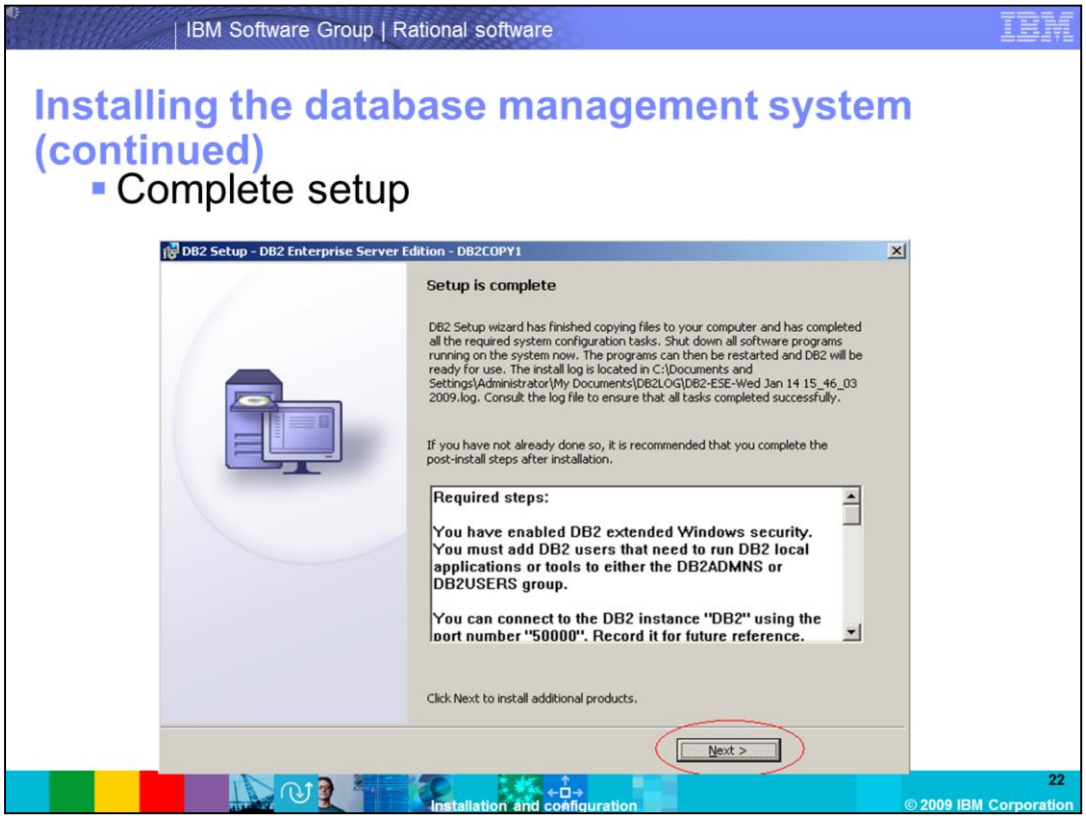
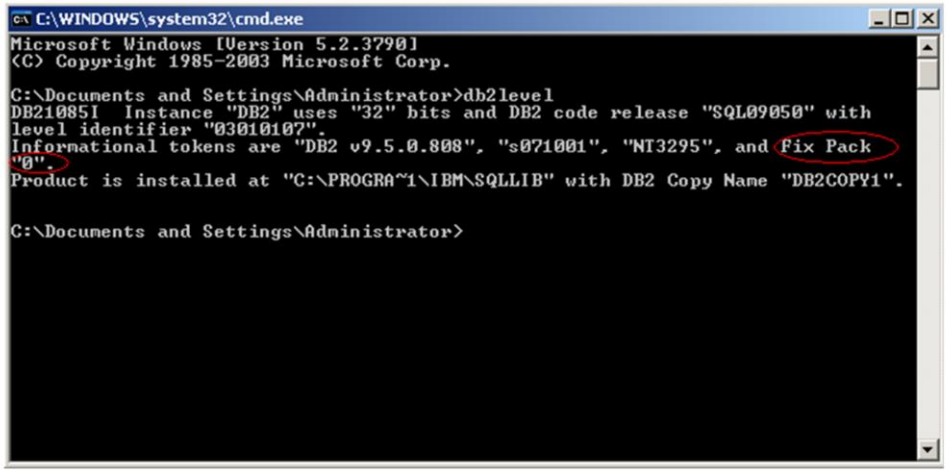
Review the installation settings, and select **Install** to start copying files.



Once the setup is complete, proceed by clicking **Next** and then click **Finish**. The DB2 First steps console will open, and you can click **Exit** or close the window. DB2 Enterprise Server 9.5 has been installed successfully. Per the system requirements, install FixPack01.

Installing the database management system (continued)

- Verifying the version of DB2



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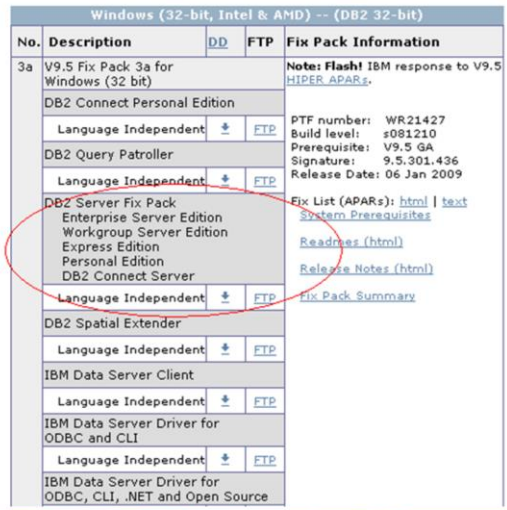
To verify the version of DB2, go to a command prompt by clicking **Start -> Run -> cmd.** Enter the command **db2level** once inside the command prompt. You can see that you only have the base installation of DB2 Enterprise Server Edition 9.5 (FixPack 0).

Installing the database management system (continued)

- Installing FixPack01 (or higher)



Windows (32-bit, Intel & AMD) -- (DB2 32-bit)				
No.	Description	DD	FTP	Fix Pack Information
3a	V9.5 Fix Pack 3a for Windows (32 bit)			Note: Flash! IBM response to V9.5 HIPER APARs.
	DB2 Connect Personal Edition			
	Language Independent	⬇	FTP	PTF number: WR21427 Build level: s081210 Prerequisite: V9.5 GA Signature: 9.5.301.436 Release Date: 06 Jan 2009
	DB2 Query Patroller			
	Language Independent	⬇	FTP	Fix List (APARs): html | text System Prerequisites
	DB2 Server Fix Pack Enterprise Server Edition Workgroup Server Edition Express Edition Personal Edition DB2 Connect Server			Readmes (html) Release Notes (html)
	Language Independent	⬇	FTP	Fix Pack Summary
	DB2 Spatial Extender			
	Language Independent	⬇	FTP	
	IBM Data Server Client			
	Language Independent	⬇	FTP	
	IBM Data Server Driver for ODBC and CLI			
	Language Independent	⬇	FTP	
	IBM Data Server Driver for ODBC, CLI, .NET and Open Source			

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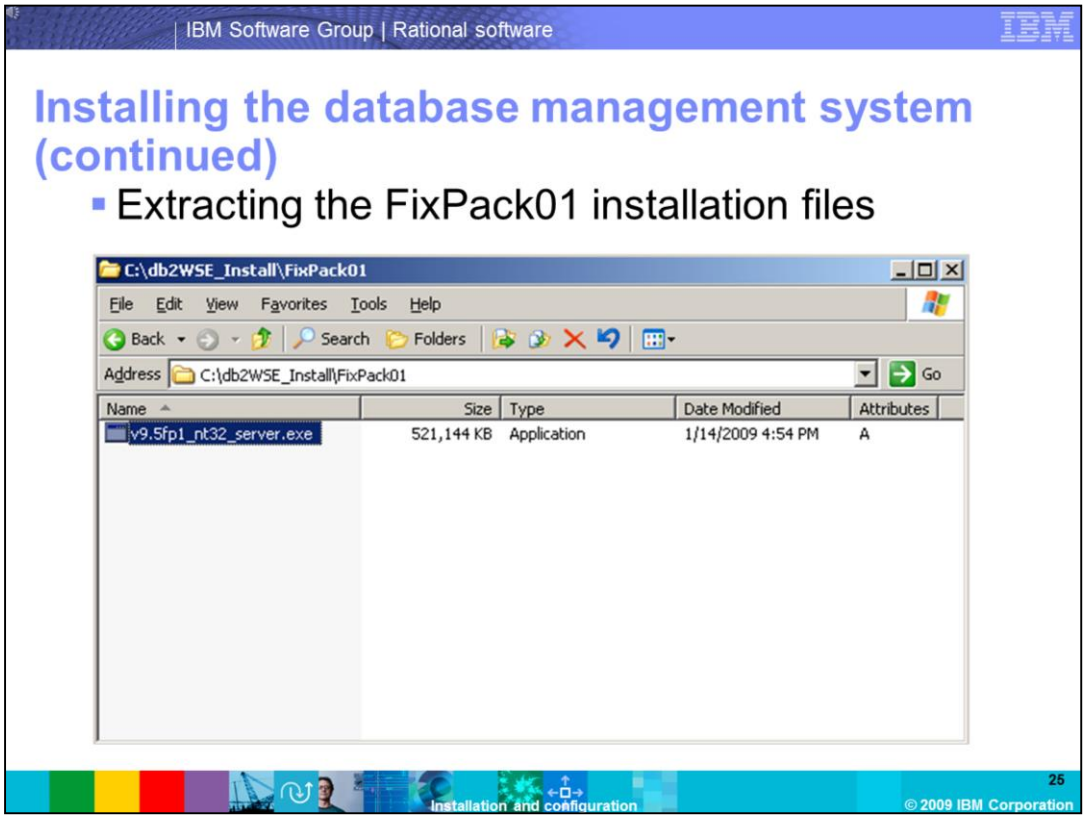
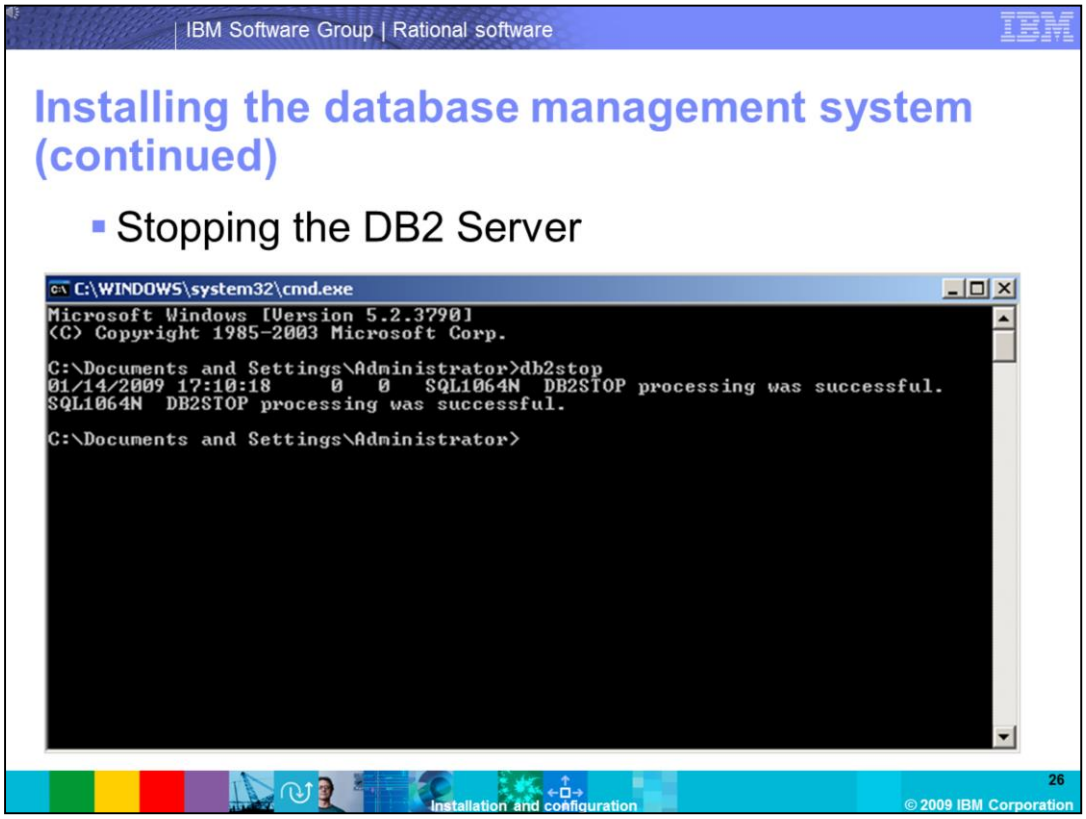
If you search www.ibm.com for DB2 9.5 FixPack01, you are brought to the DB2 support page for DB2 9. From there you can navigate to FixPack01 for Windows. You can choose to install a higher fixpack level, however for this demonstration you will install FixPack01.
http://www-01.ibm.com/support/docview.wss?rs=71&context=SSEPGG&context=SSEPDU&context=SSVGXH&context=SSVGZB&context=SSYK8P&context=SSTLZ9&dc=D400&uid=swg21288110&loc=en_US&cs=utf-8&lang=en



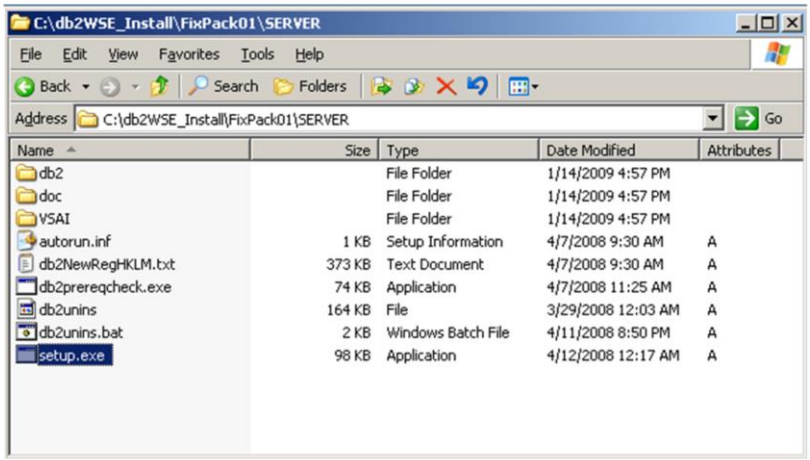
Execute the file that has been downloaded that contains the installation for FixPack01. The file name can vary depending on the version of DB2 being used. In this case, you have a self-extracting archive file that unpacks the installation files in to a directory you have specified.



In order to install a FixPack, you must shut down the DB2 server by entering **db2stop** from a command prompt.

Installing the database management system (continued)

- Beginning the FixPack01 installation



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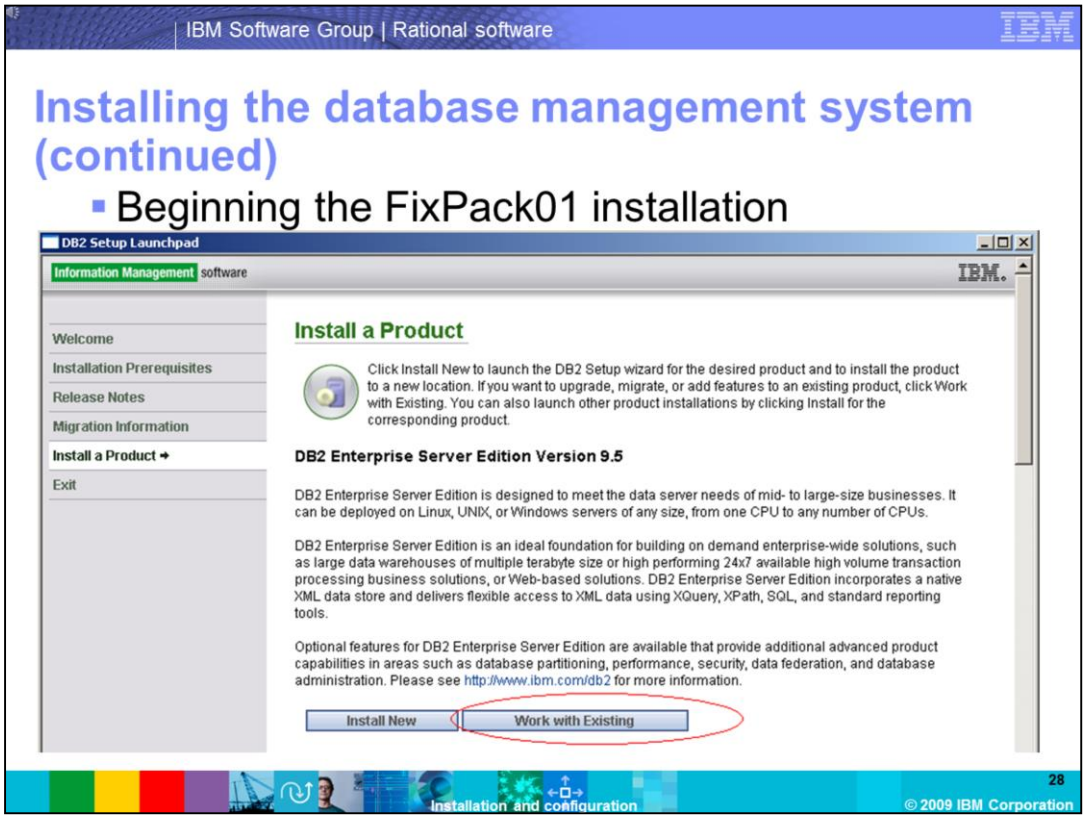
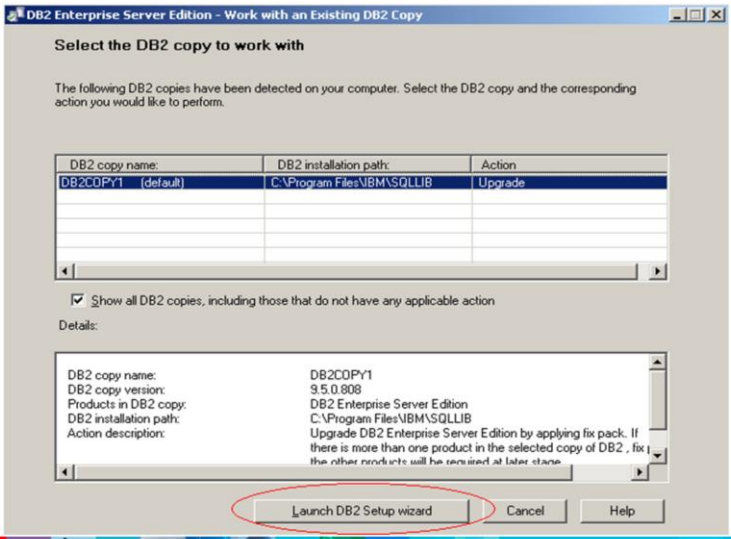
Navigate to the directory where the installation files were unpacked, and run **setup.exe**.



The same set of screens are presented that you saw when installing the DB2 server. Click **Install a Product** and then **Work with Existing**.

Installing the database management system (continued)

- Selecting the DB2 copy



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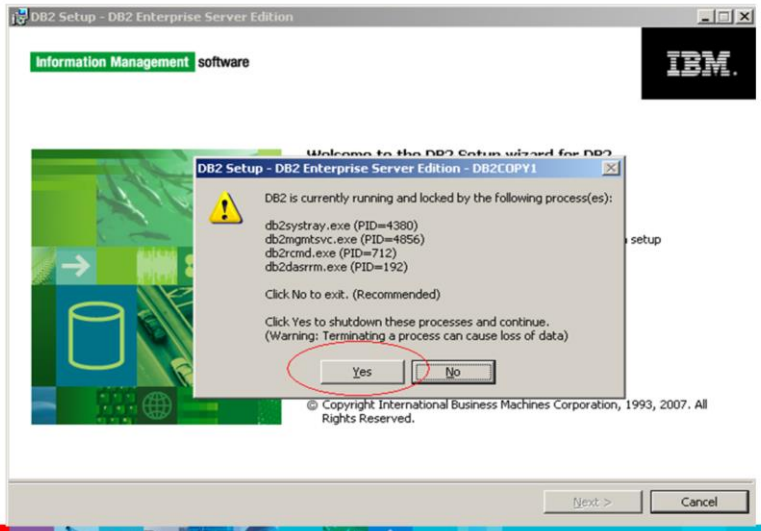
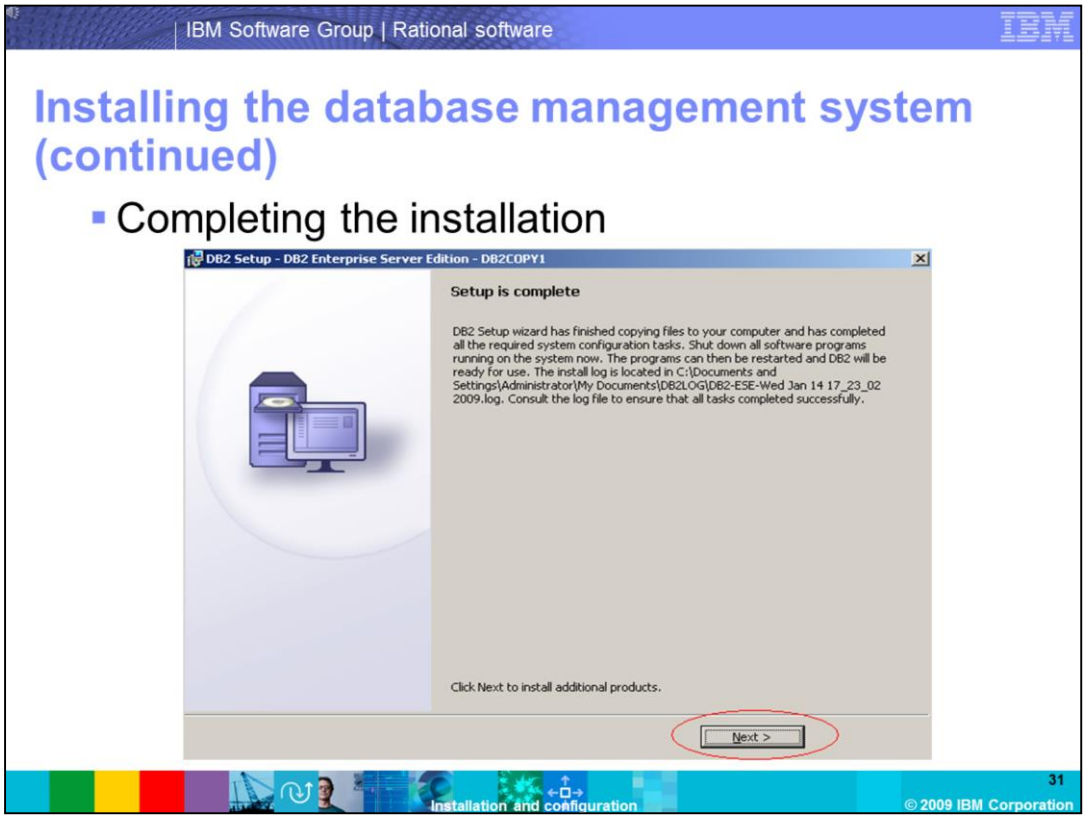
You only have one copy of DB2 installed on your server, so you can select the DB2 copy name (DB2COPY1), and select **Launch DB2 Setup Wizard.**

Installing the database management system (continued)

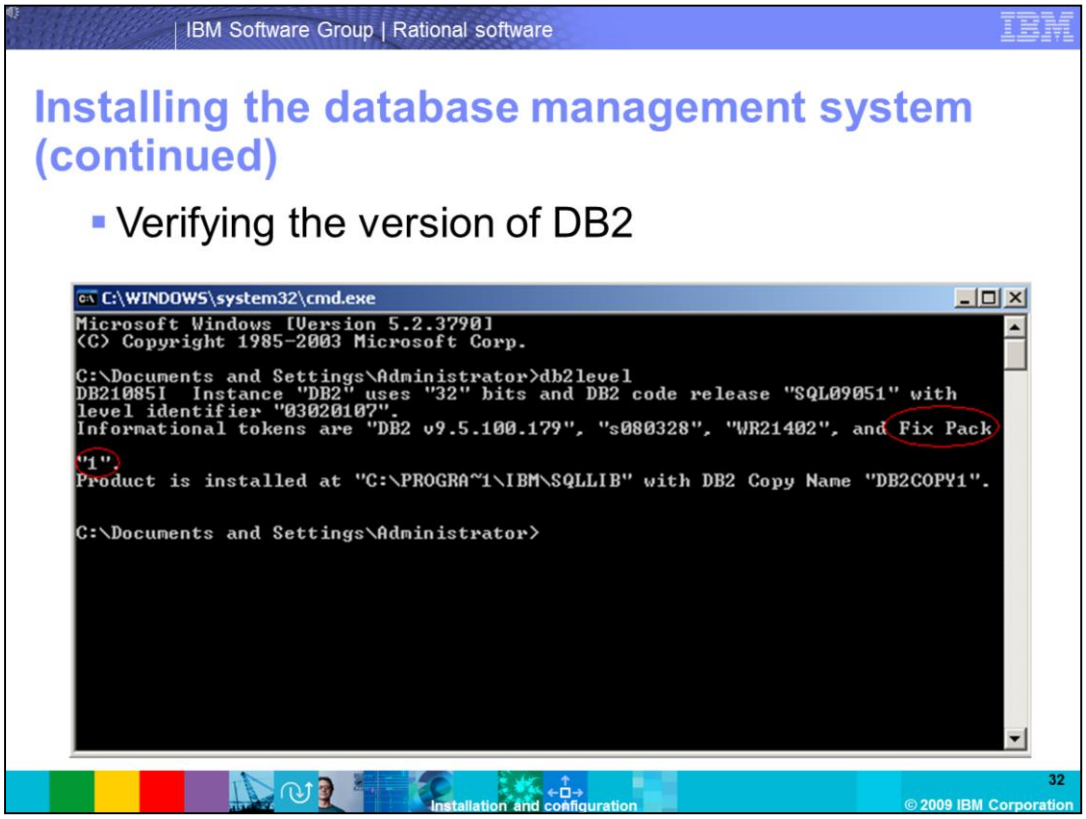
- Starting the installation



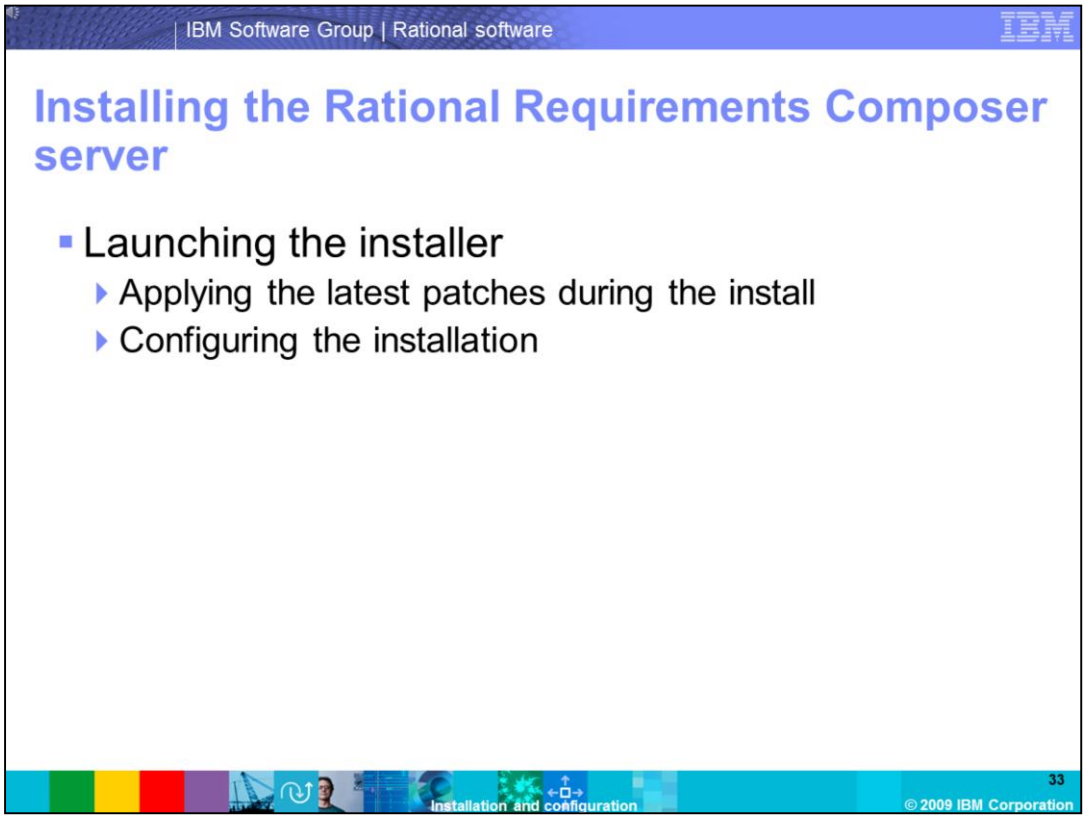
If the installer detects running DB2 processes, allow it to end the processes by clicking **Yes**. Once this completes, click **Next** to begin the installation.



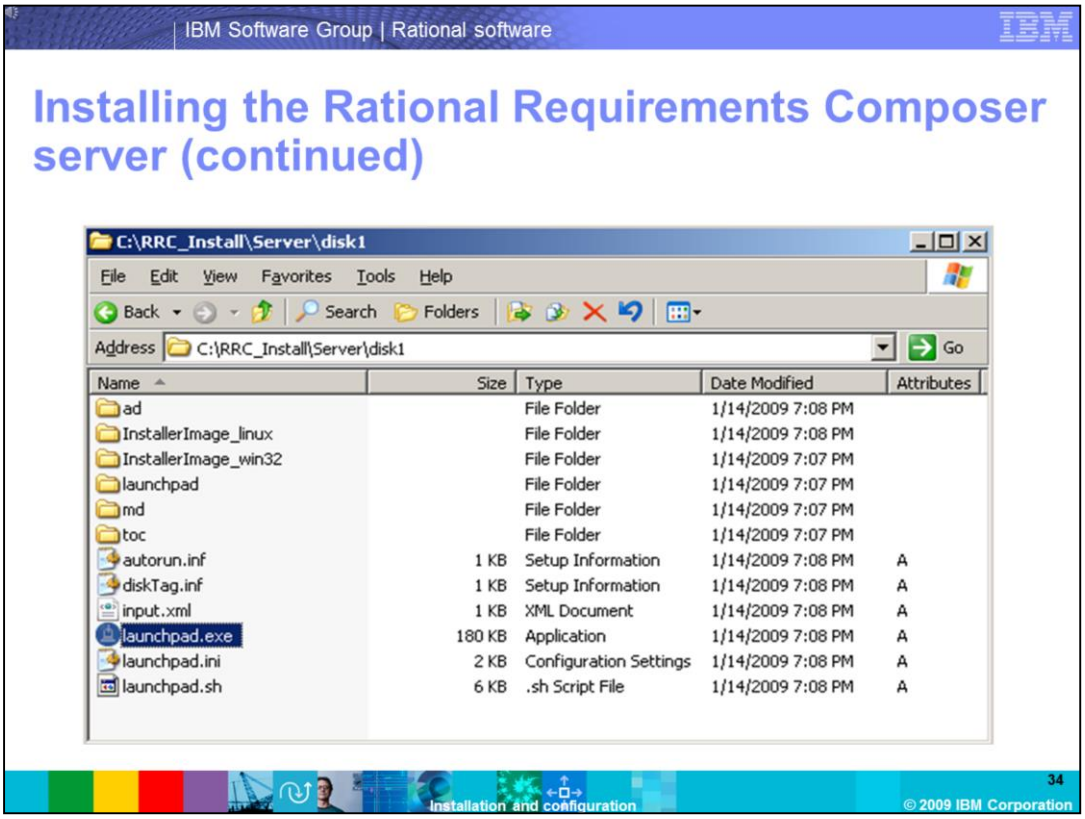
Once the setup has completed, click **Next** and then click **Finish**. You are prompted to re-start your machine. Once the server has been restarted, you can verify the version of DB2 is now at FixPack01.



To verify the version of DB2, go to a command prompt by clicking **Start -> Run ->entering cmd** and clicking OK**.** Enter the command **db2level** once inside the command prompt. You can now see that you are running FixPack01.

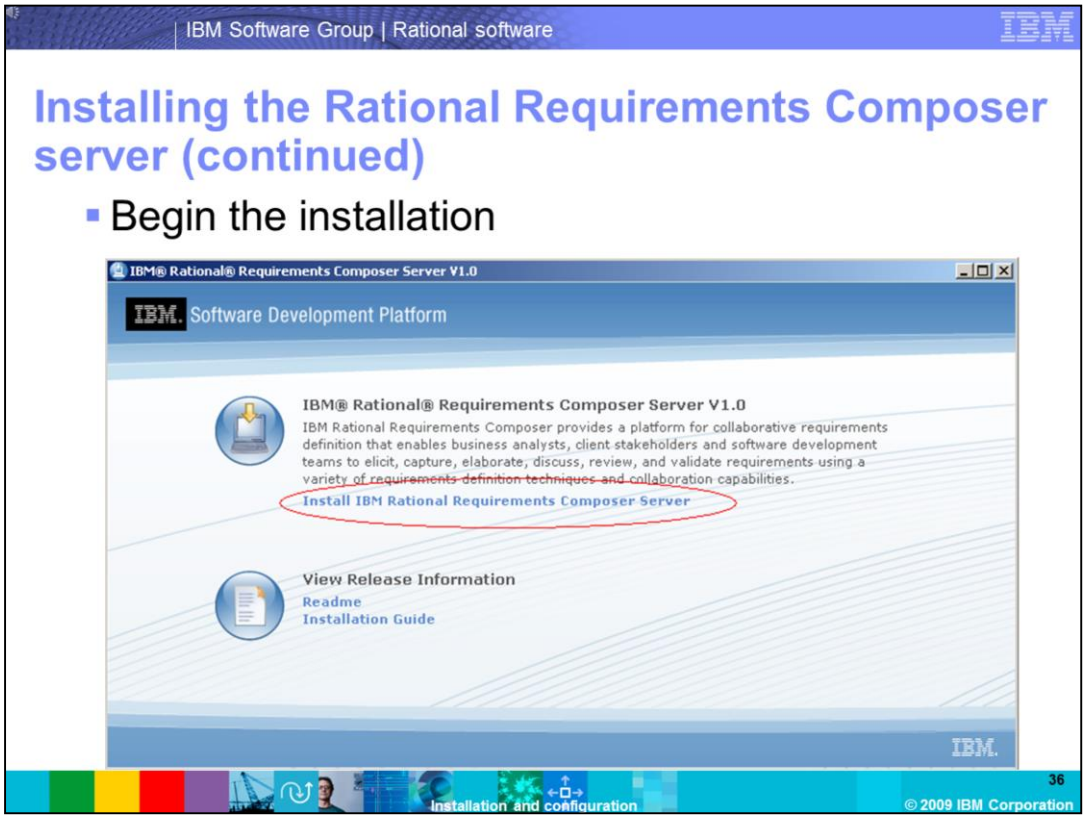


Before proceeding with the server installation, make sure you are logged in as a local administrator on the system.

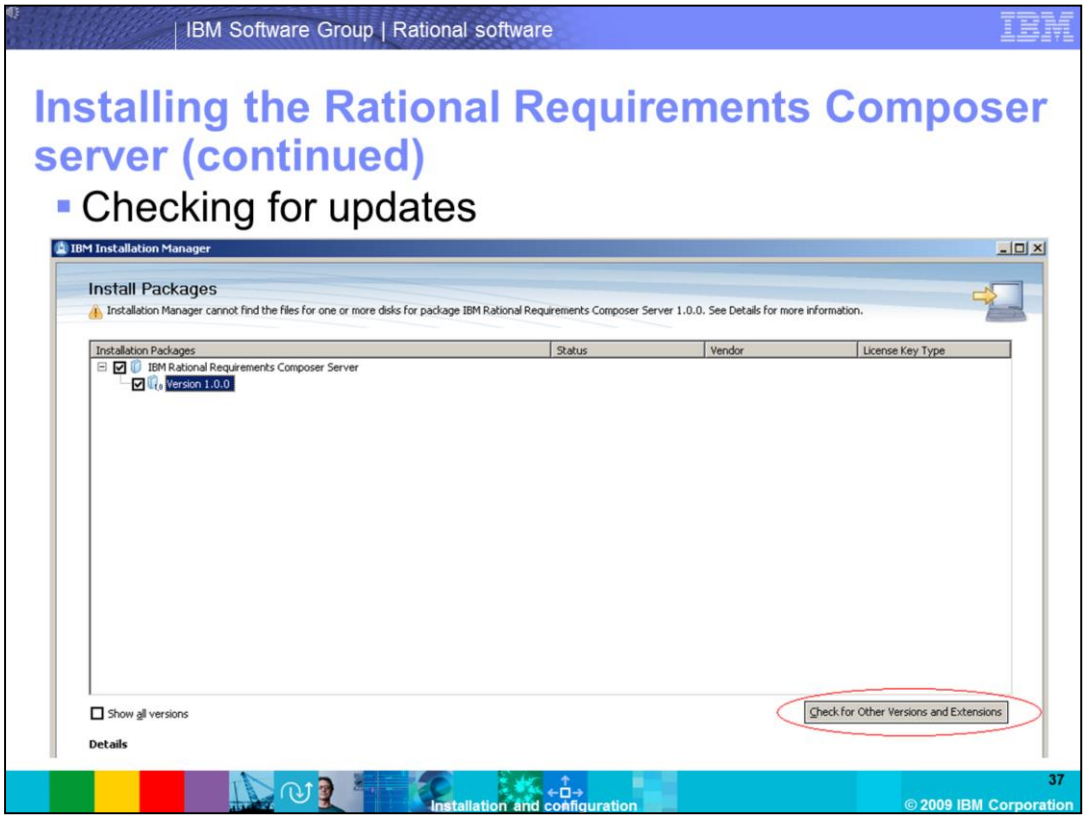


Begin by locating the Rational Requirements Composer server installation files, and launching the installer by double-clicking the **launchpad.exe** file located in the **RRCS\disk1** folder.

To begin the installation, select a language to be used for the Installation Manager.



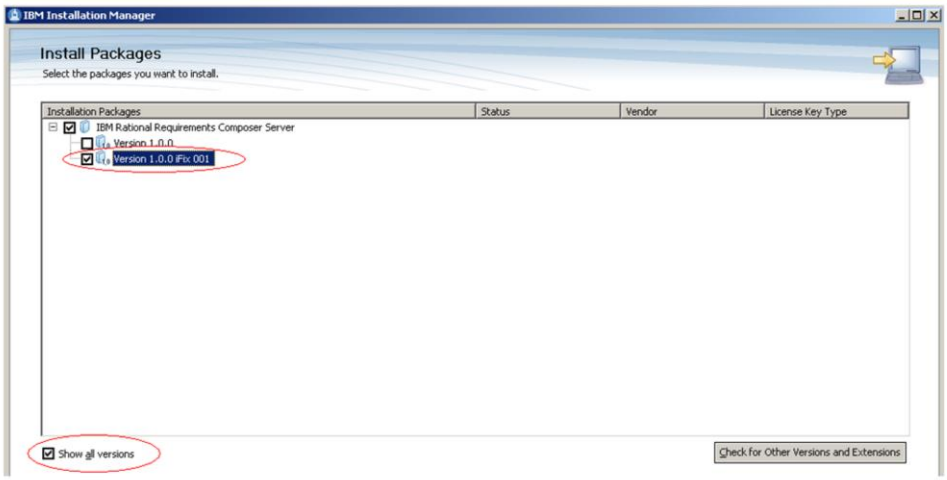
Click the button **Install IBM Rational Requirements Composer Server** to launch the installer. If Installation Manager has not yet been installed, it is installed at this time. If Installation Manager has already been installed by another product, it will launch and begin the Installation Configuration.



Installation Manager will launch with the package IBM Rational Requirements Composer Server, with Version 1.0.0 selected. You can choose to either install the 1.0 release, or you can search for fixes to apply automatically during the installation. Since you know that iFix01 is available for the RRC Server, you will click the **Check for Other Versions and Extensions** button to avoid having to apply the iFix at a later time.

Installing the Rational Requirements Composer server (continued)

- Checking for updates



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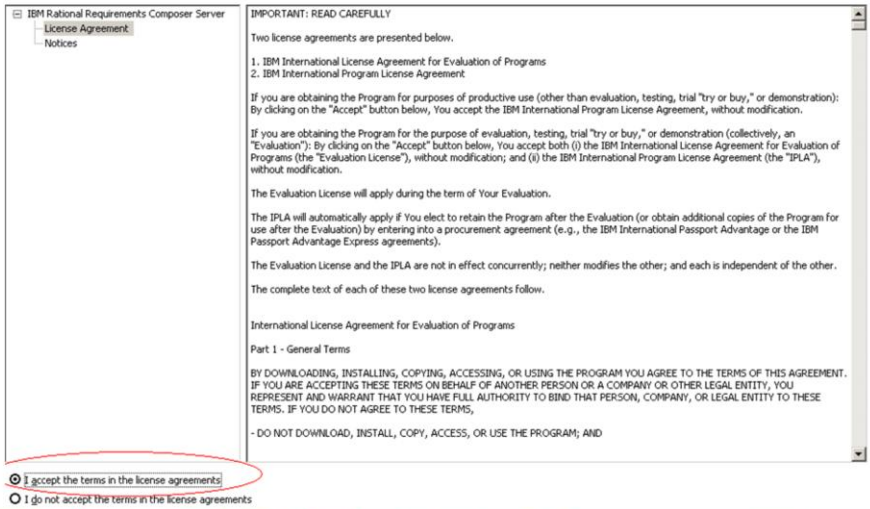
By selecting the **Show all versions** button, you can now select **Version 1.0.0 iFix 001,** and click **Next** to begin the installation of Rational Requirements Composer 1.0 Server, with iFix01.

Installing the Rational Requirements Composer server (continued)

- Accepting the license agreement



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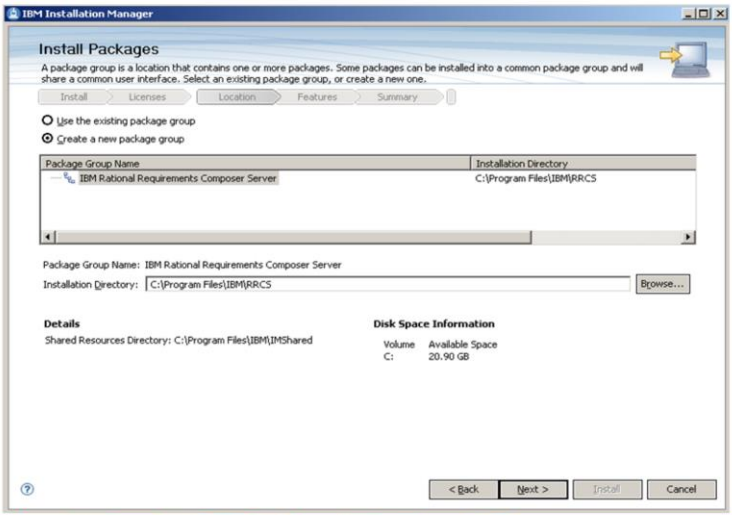
Read the license agreement, and select the button "**I accept the terms in the license agreements"** if you accept the terms. Then click **Next** to continue with the installation.

Installing the Rational Requirements Compser server (continued)

- Creating the package group



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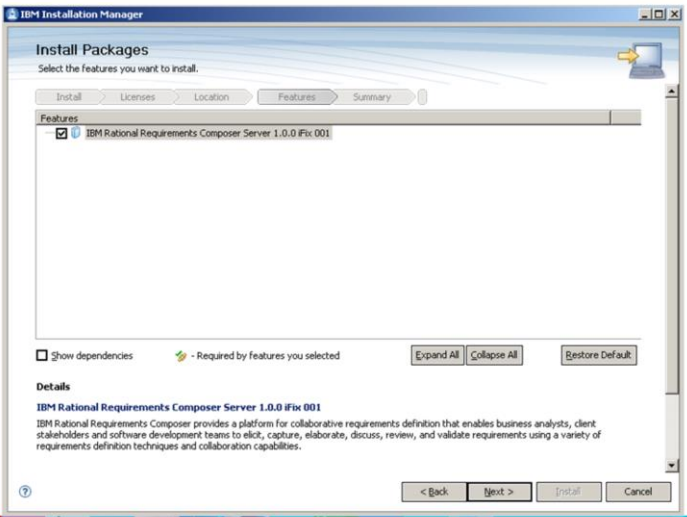
You are going to install Rational Requirements Composer Server to a new package group that has not yet been defined. The default package group is **C:\Program Files\IBM\RRCS**. If you wanted to install to an already existing package group, you can choose to do so by selecting the ***Use the existing package group*** button. For this demonstration, create a new package group. Click **Next** to continue.

Installing the Rational Requirements Composer server (continued)

- Selecting the feature to be installed



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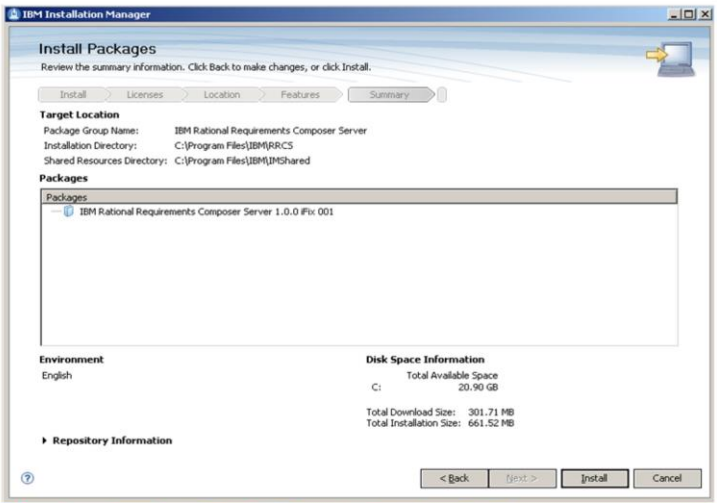
You are now presented with a screen that asks you to select the feature to be installed. In this case, select the default **IBM Rational Requirements Composer Server 1.0.0 iFix001**. Click **Next** to begin the installation.

Installing the Rational Requirements Composer server (continued)

- Installation Summary



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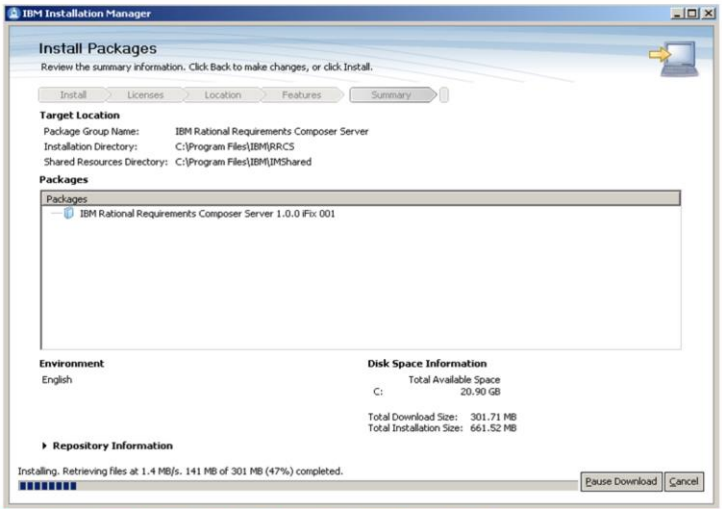
This screen gives you a summary of your installation. Included in this screen is information about free disk space, the download size, and the size of the installation once completed. Click **Install** to begin copying files.

Installing the Rational Requirements Composer server (continued)

- Copying files



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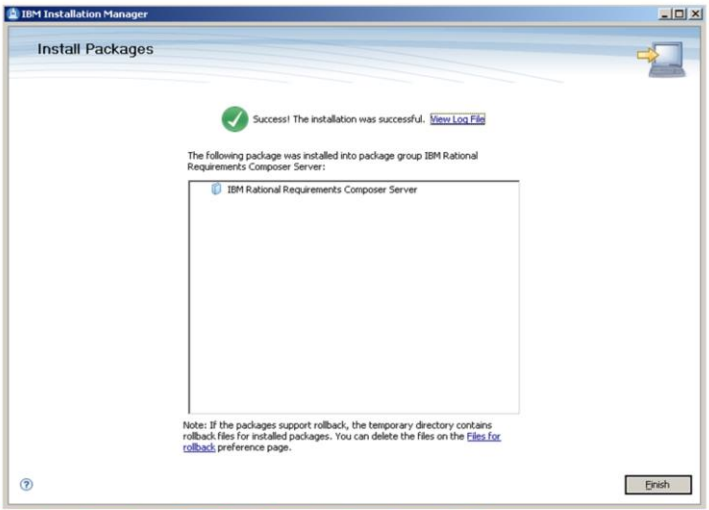
The files are now be copied on to your server, and the installation will finish. IBM Rational Requirements Composer Server 1.0.0 with iFix001 is now present on your system.

Installing the Rational Requirements Composer server (continued)

- Installation Complete



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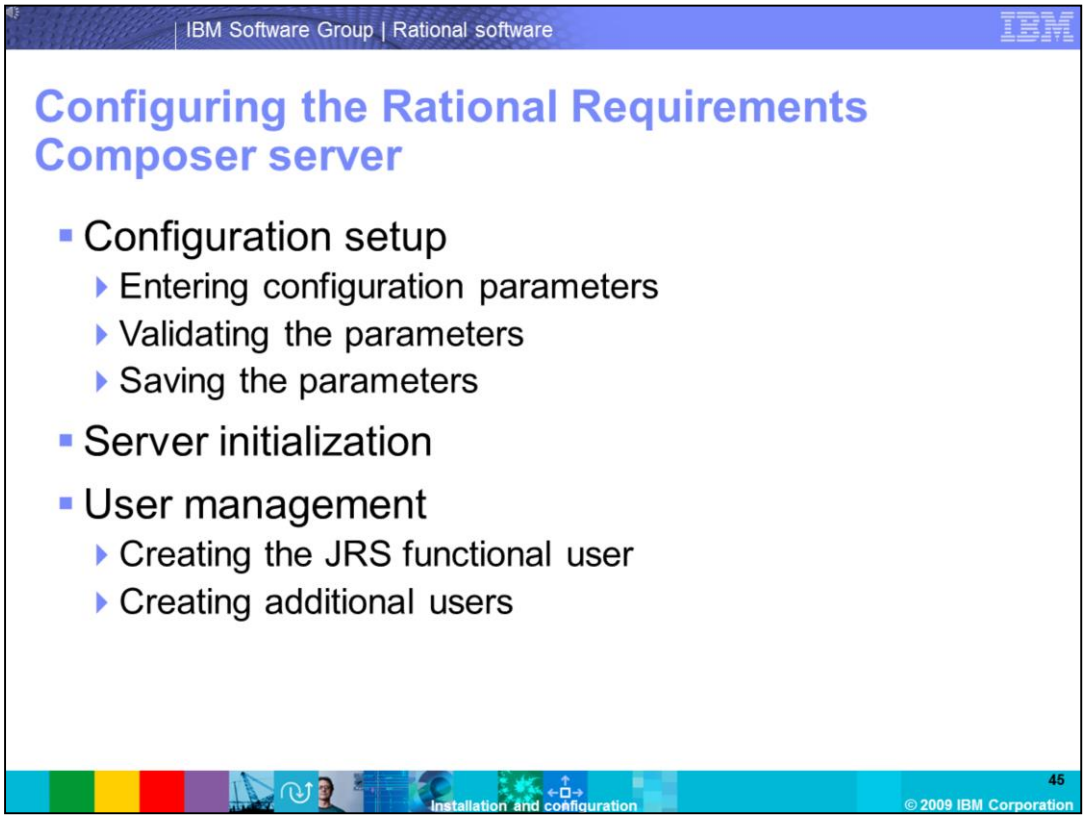
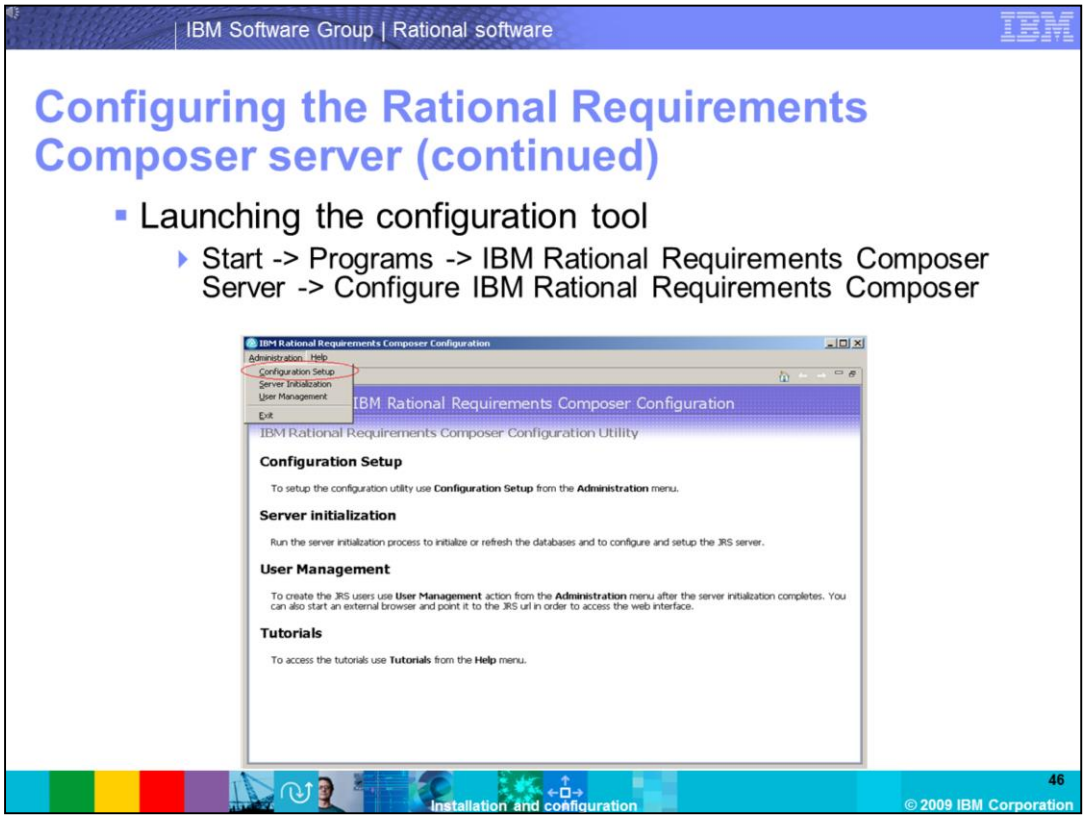
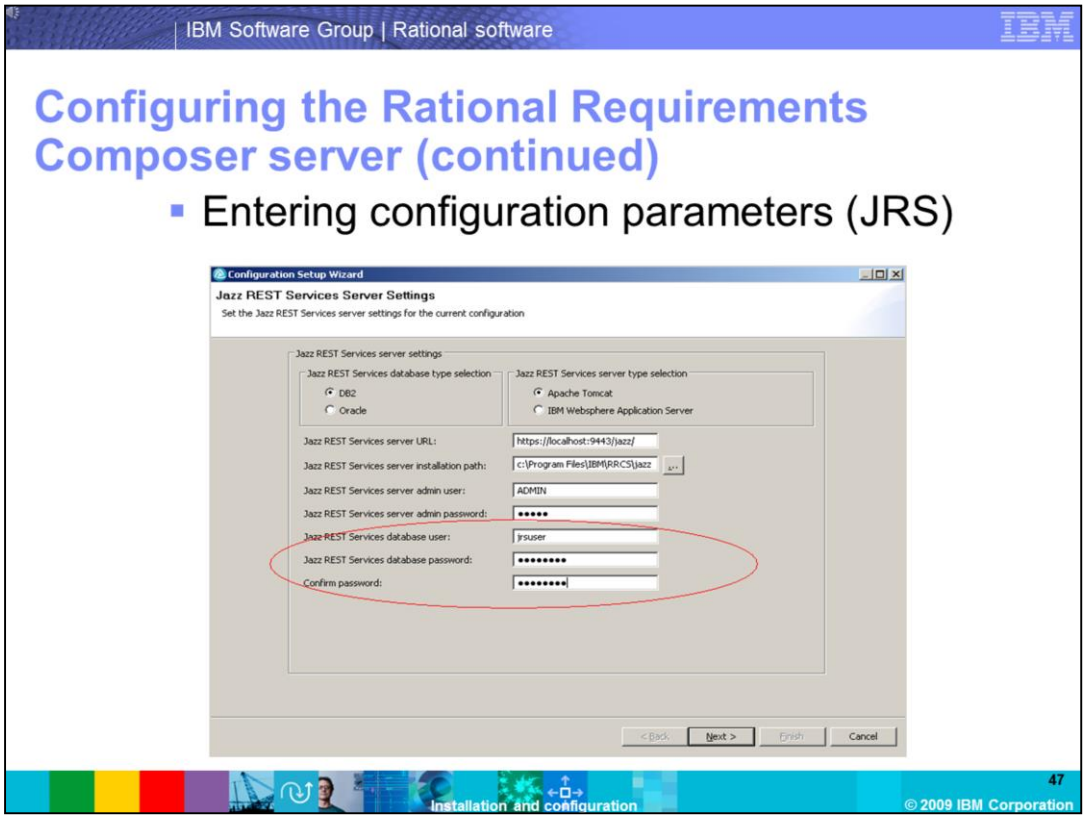
Once the installation has finished, you will see a confirmation page stating that the installation has completed successfully. Click **Finish** to close the installation wizard.



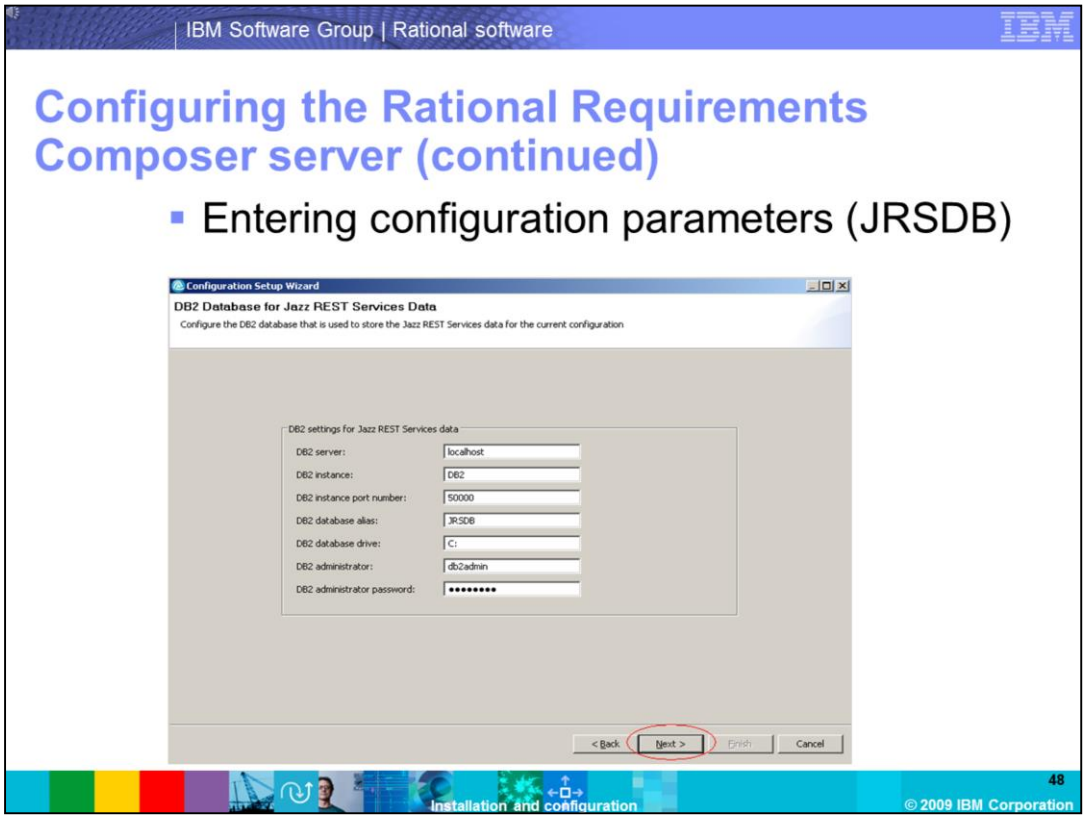
You now need to configure the Rational Requirements Composer Server. After these steps are completed, your DB2 database is created with the appropriate tables and indexes, and you will have a valid server ready for client connectivity.



Once the configuration tool has been launched, click the **Administration** Menu, and select **Configuration Setup.**



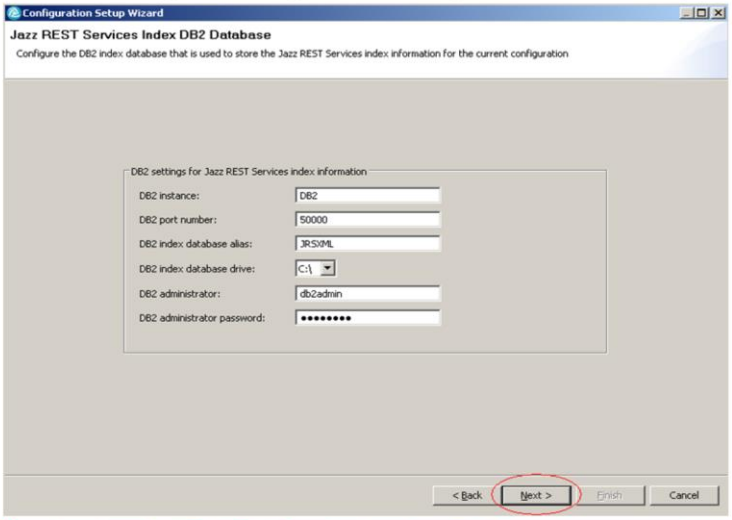
For this demonstration, use DB2 as the back-end database, and Apache Tomcat for the Jazz™ REST Services (JRS) server. You can leave the defaults, but change the JRS database user/password. If this user does not exist, it is created on the system with the username and password specified. If the user already exists on the server, specify the current password for the jrsuser. For this demonstration, you have this user on your system, so change the password and allow the configuration tool to create the user once you are finished. Note, the default password for the **ADMIN** user is **ADMIN**. Use this to log into the server later. This user can be disabled after the server has been created.



Fill in the required fields. The DB2 administrator was the user you created during the installation of the DB2 server. Specify the same password you created for the user. The default port for the DB2 server is 50000, and the server is running on localhost. A database called **JRSDB** is created on the DB2 server once you begin the server initialization.

Configuring the Rational Requirements Composer server (continued)

- Entering configuration parameters (JRSXML)



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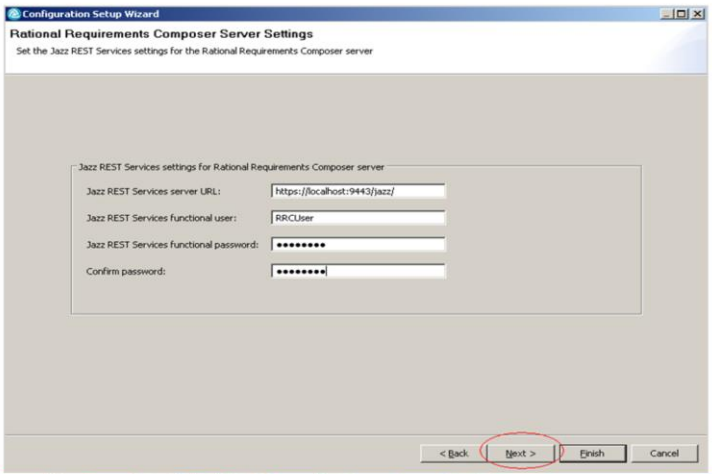
Fill in the required fields. The values are similar to what was entered in the previous step. A database named **JRSXML** is created during server initialization. This is the DB2 index database.

Configuring the Rational Requirements Composer server (continued)

- Entering configuration parameters (Functional User)



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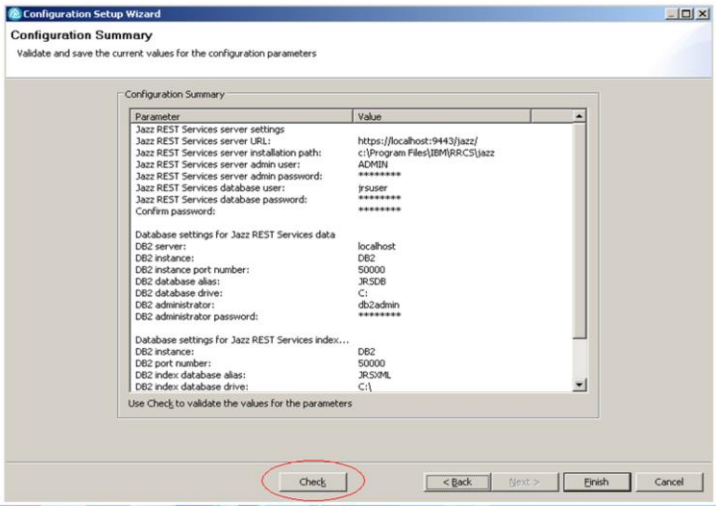
Enter a name and password for the Jazz REST services functional user. This user is created later on in the configuration.

Configuring the Rational Requirements Composer server (continued)

- Configuration summary



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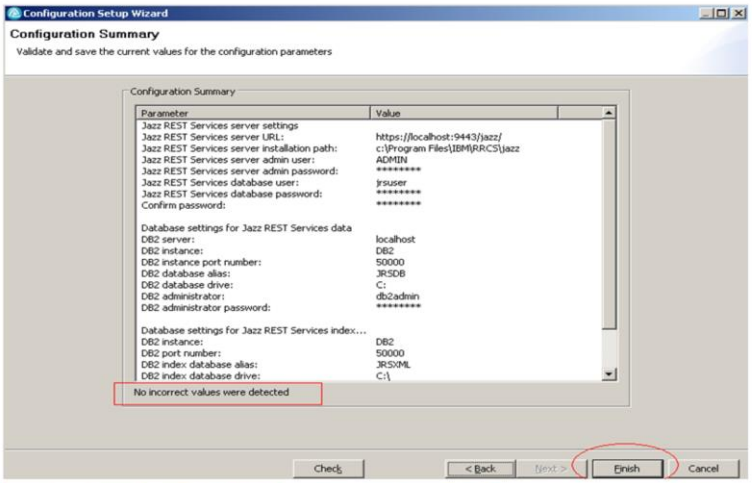
The configuration summary screen shows the details of the parameters you entered during the configuration. Click **check** to verify that the information you entered is valid, otherwise failures can occur during the server initialization if the values are not valid. Make sure that the DB2 database server has been started, and that the instance is running.

Configuring the Rational Requirements Composer server (continued)

- Configuration summary



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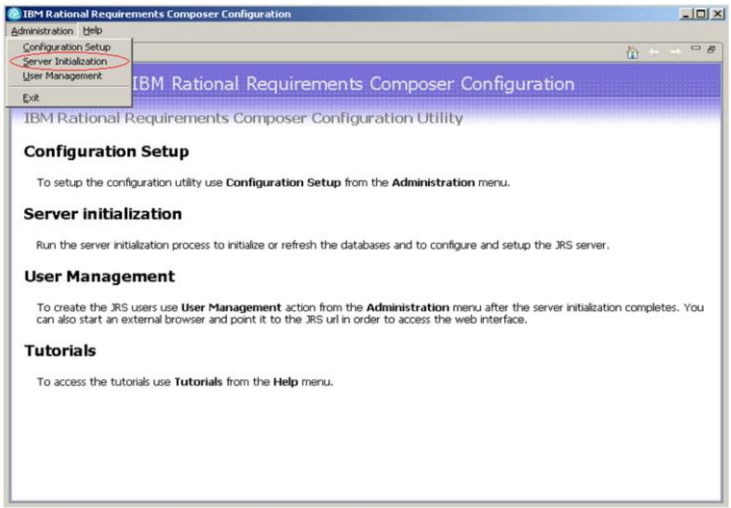
Once the validation has been done, you can see **No incorrect values were detected** reported in the configuration summary. Click **Finish** to exit the configuration settings.

Configuring the Rational Requirements Composer server (continued)

- Server initialization



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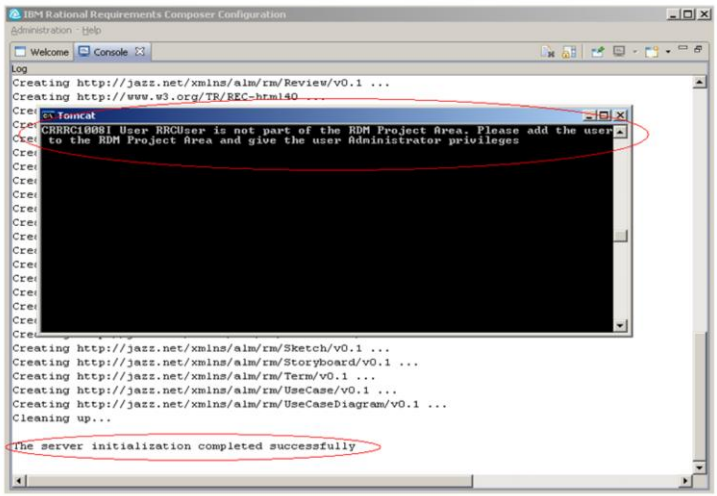
Now that you have entered all of your configuration settings, use them to initialize your server. From the configuration tool, click the **Administration** menu, and select **Server Initialization**.

Configuring the Rational Requirements Composer server (continued)

- Server initialization



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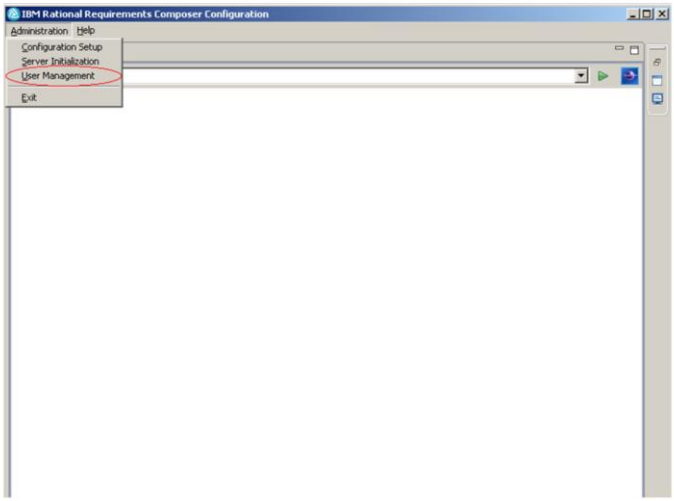
A message will indicate that the server initialization has completed successfully. Your JRS server is now started.

Adding the required users

- Launching the user administration



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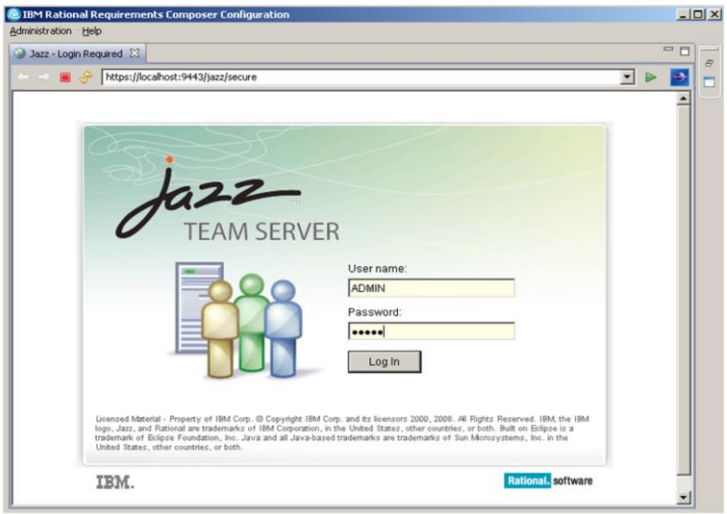
You need to create the JRS functional user that you configured in the previous steps. You will want to add a user which you will use to log in to a repository after installing the client. Click **Administration -> User Management** to enter the user management console.

Adding the required users (continued)

- Logging in



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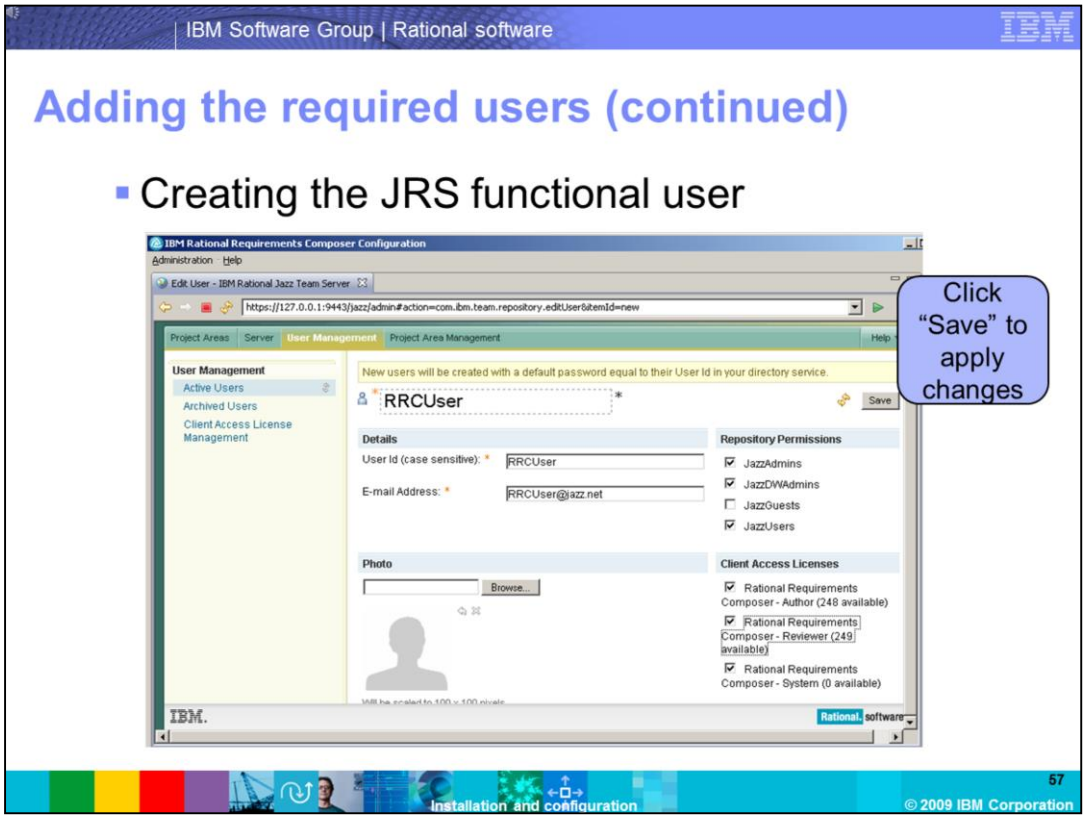
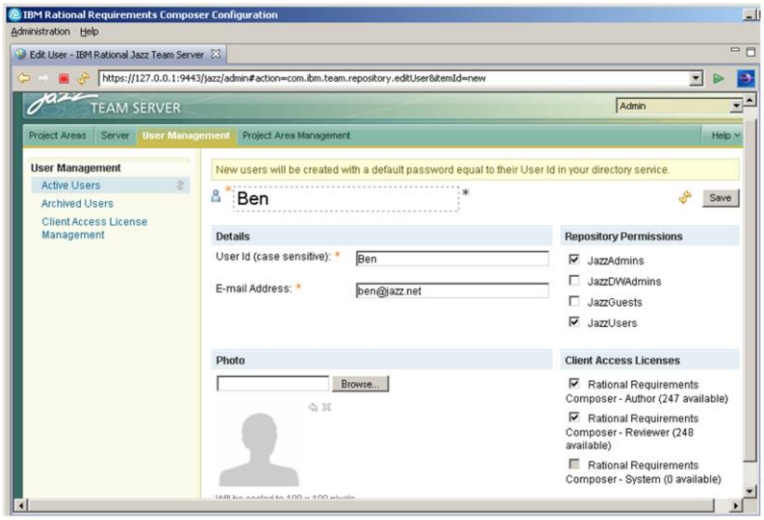
Log in as the ADMIN user that was created during the server configuration. Enter **ADMIN** for the username, and **ADMIN** for the password (case sensitive).



Create the JRS functional user that was specified during the server configuration. For this demonstration, you used **RRCUser.** Click **User Management**, and then **Create user**. Enter the username, user ID, an e-mail address, and then assign permissions and licenses to the functional user. Click **Save.**

Adding the required users (continued)

- Creating a new user

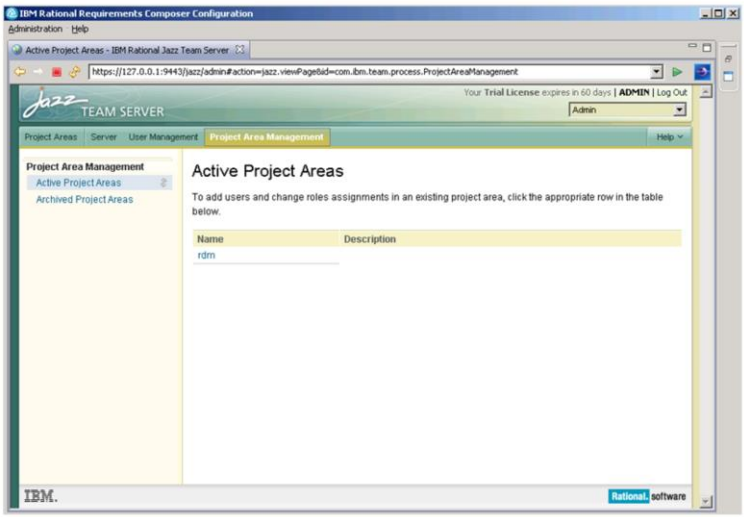


© 2009 IBM Corporation

Create another user by clicking **User Management** and **Create User**. The password for this user is the same as the user name (case sensitive) by default.

Adding users to the RDM project area

- Project area management



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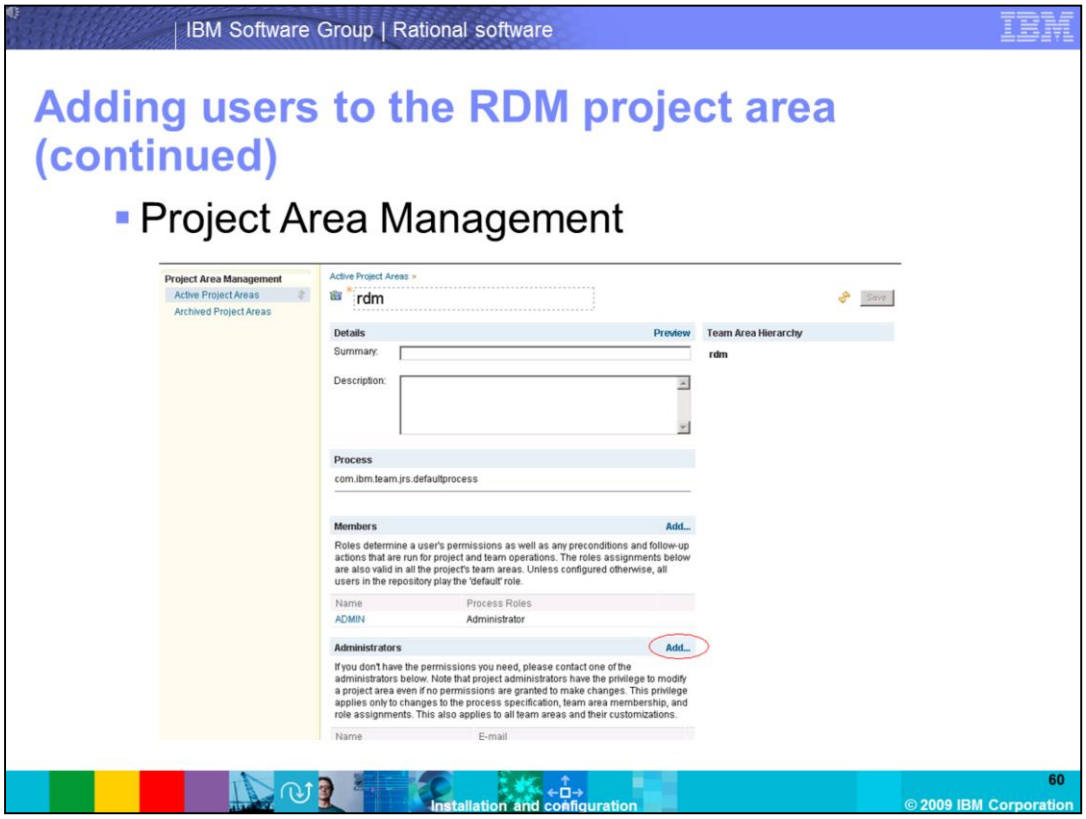
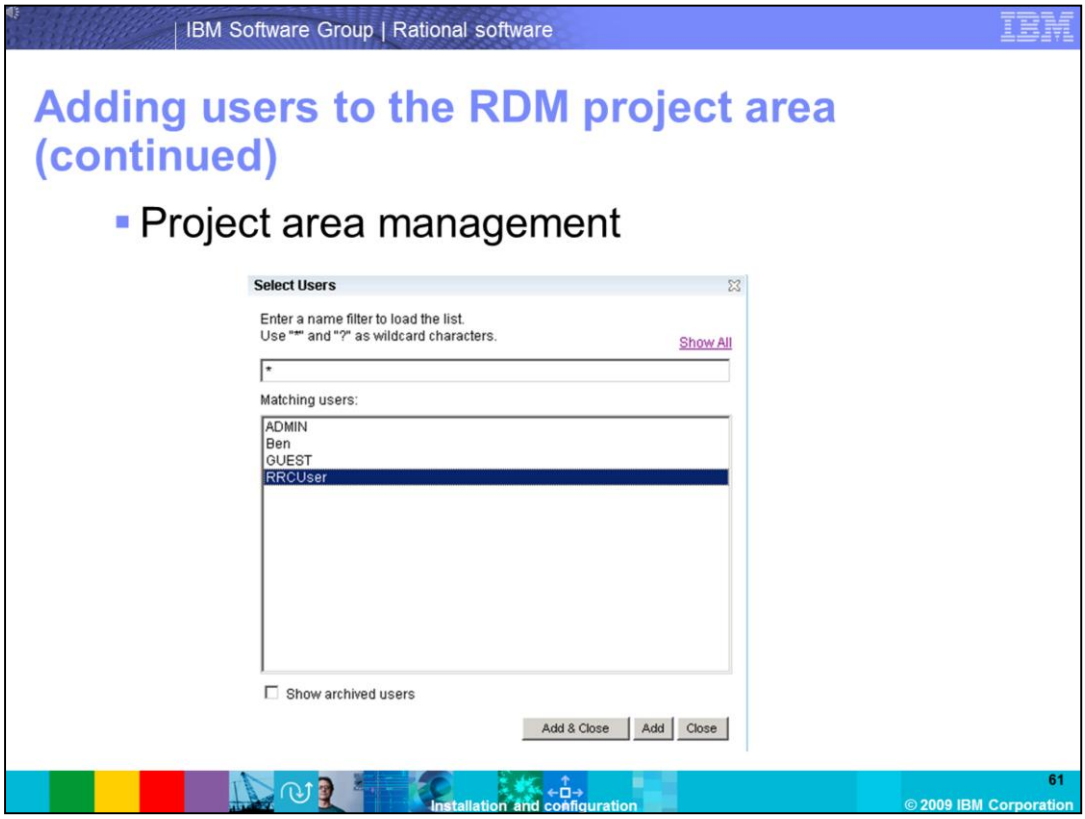
Add your new users to the RDM project area. This will allow your users to connect to the project repository once you have installed the RRC client. Click **Project Area Management** tab to continue this configuration.



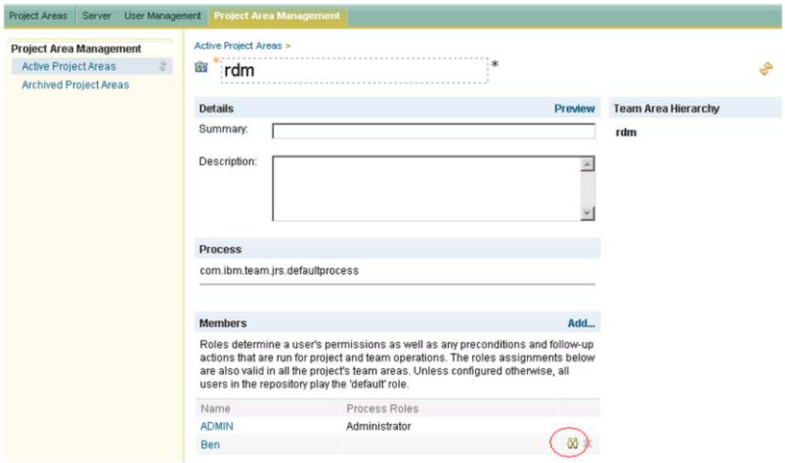
Click **RDM** to enter the RDM project area. Once inside the project area management, add the JRS functional user as an administrator of the project area, add your user to the **Members** group.



Enter the wildcard character * to return all the users on the server. Select the functional user and select **Add & Close**. This adds the functional user (RRCUser) as an administrator of the project area.

Adding users to the RDM project area (continued)

- Project area management



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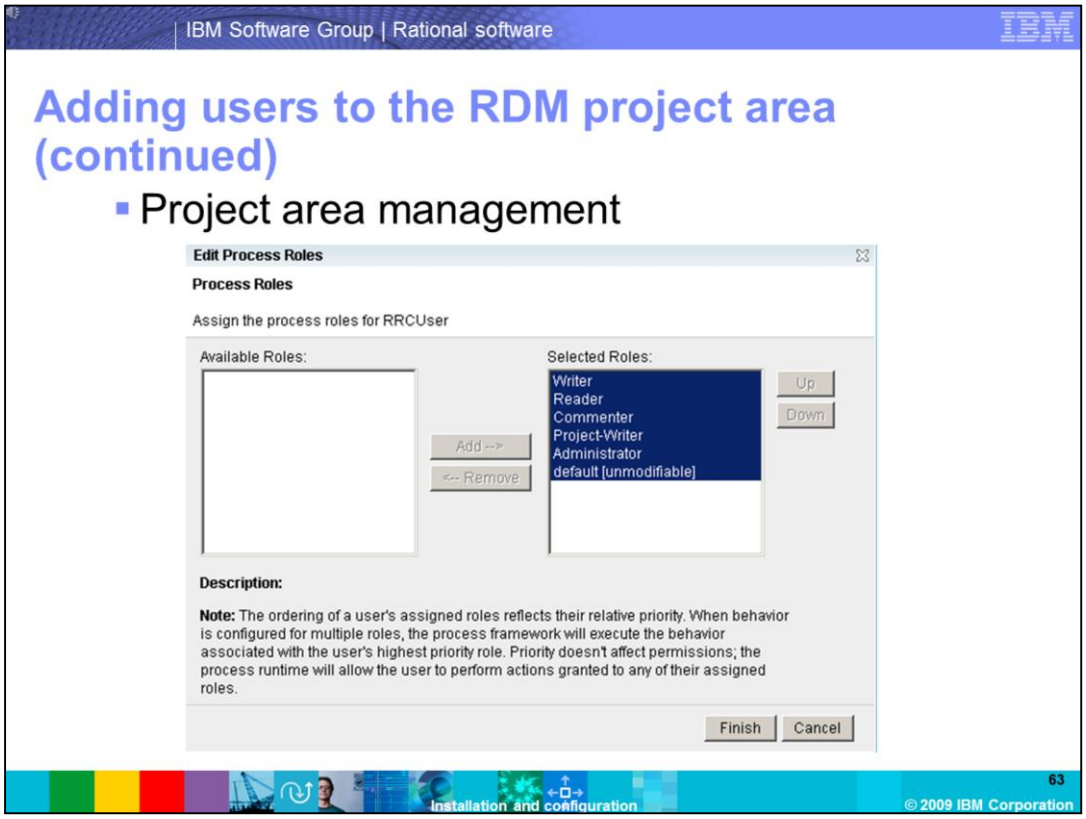
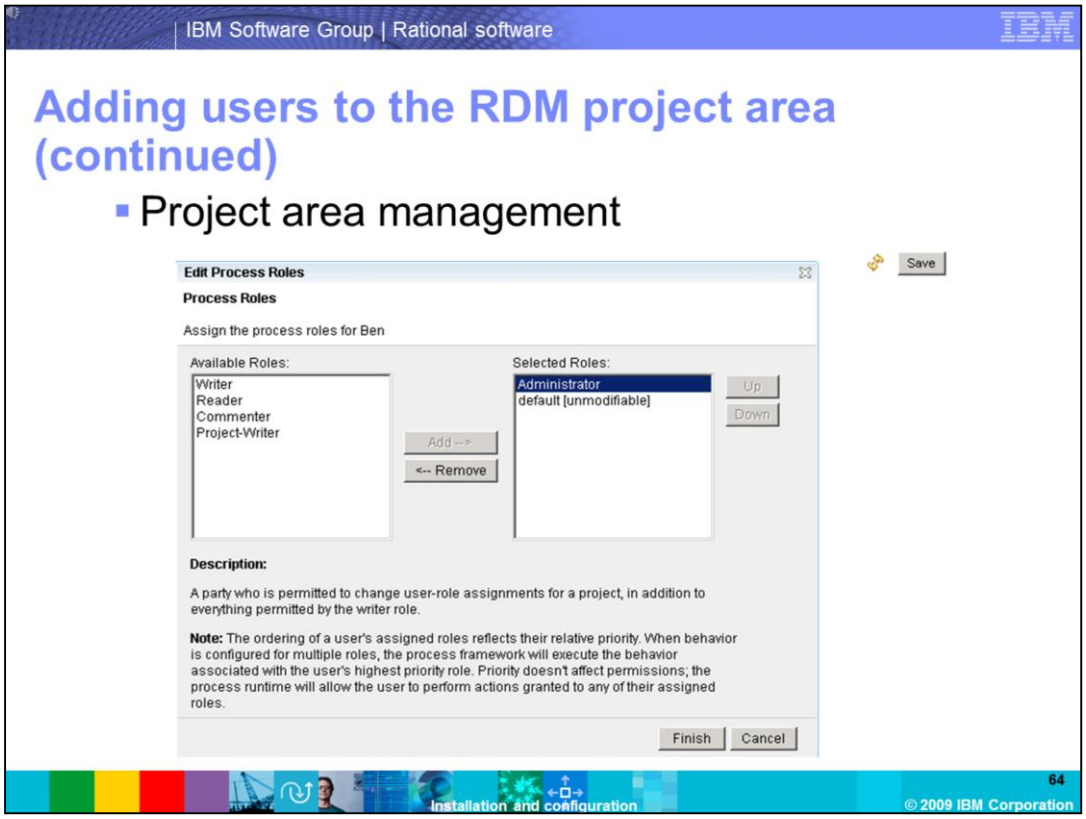
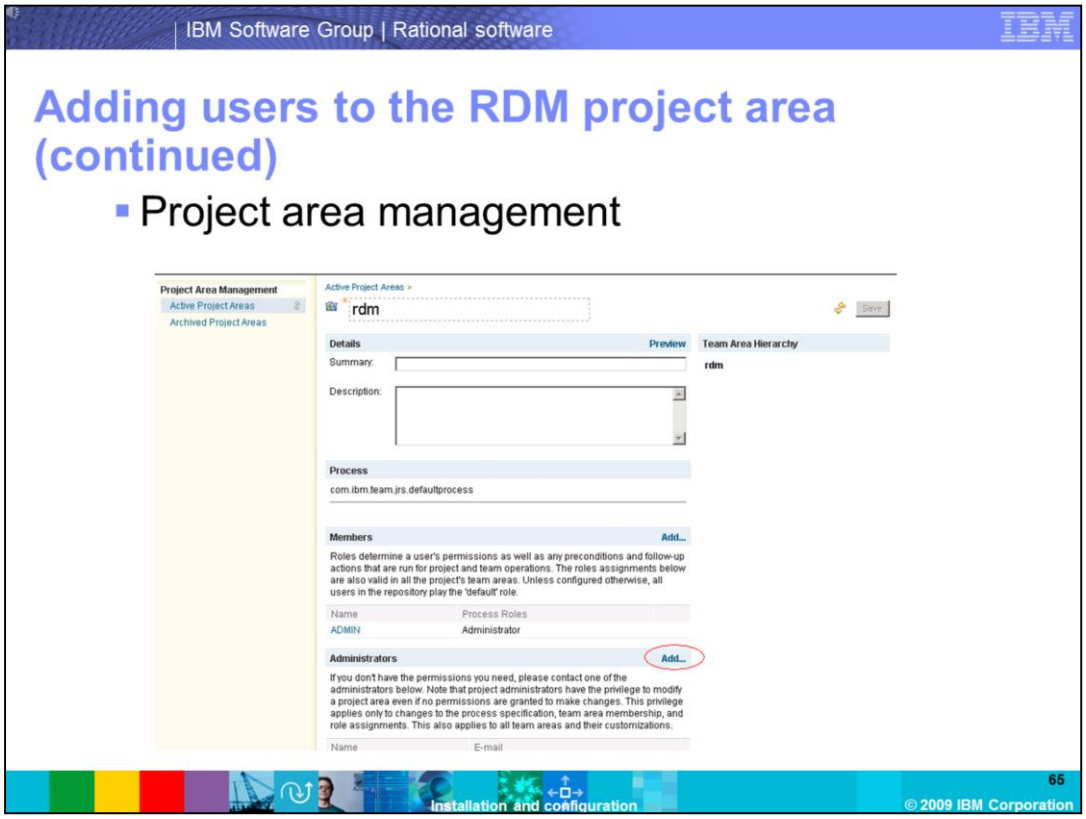
Repeat the same steps to add your user (Ben) as a member of the project area. Once the user has been added, assign process roles to this user. You can do so by clicking the process roles icon next to the user in the members section.



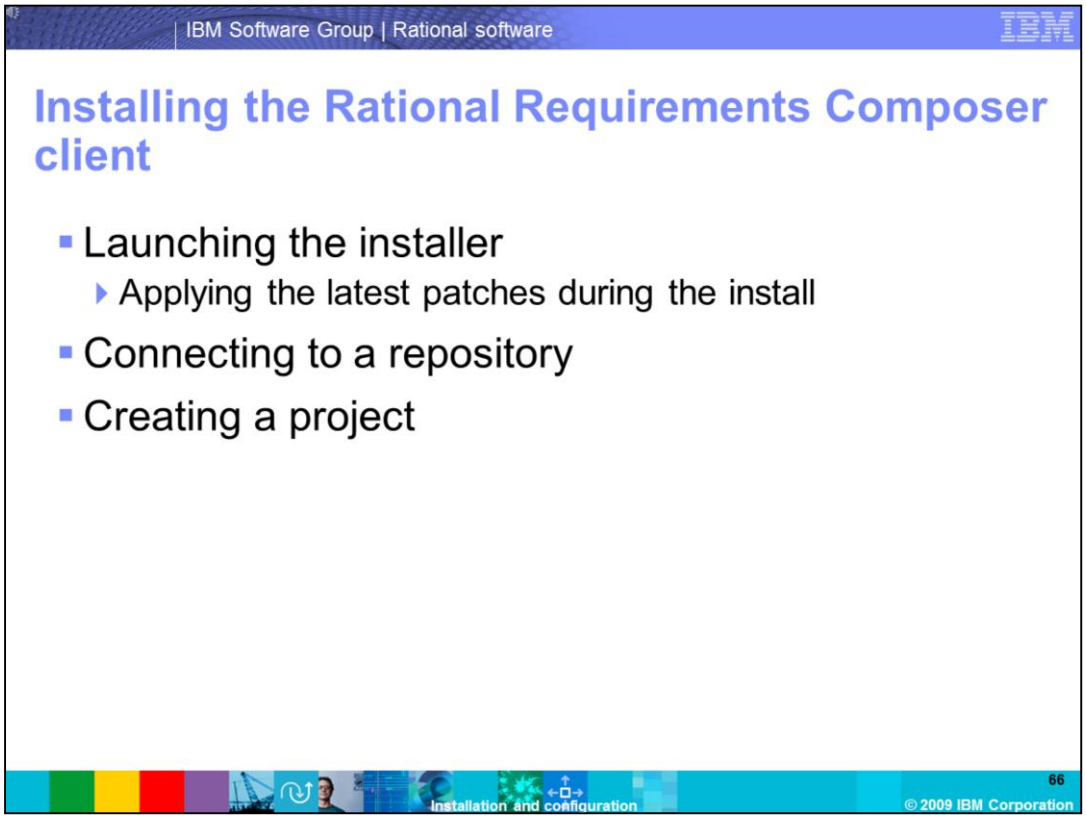
Next, add the JRS functional user (RRCUser) as a member, and grant all process roles. Click **finish**, and then save the configuration by clicking the **save** button on the **project area management** page.



For this demonstration, give your user (Ben) the **Administrator** process role. Click **Finish**, and then save the configuration by clicking the **Save** button in the project area management window to accept all of the changes you have made. The RRC Server is now completely configured to allow for client connectivity.

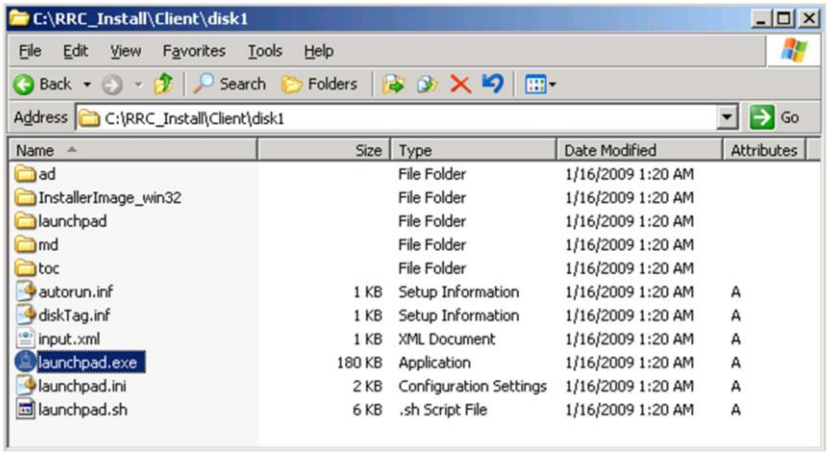


Click **RDM** to enter the RDM project area. Once inside the project area management, add the JRS functional user as an administrator of the project area, and add your user to the **Members** group. The jazz server is now completely configured, initialized, and ready for users to connect using the client.



Before proceeding with the client installation, make sure you are logged in as a local administrator on the system.

Installing the Rational Requirements Composer client (continued)



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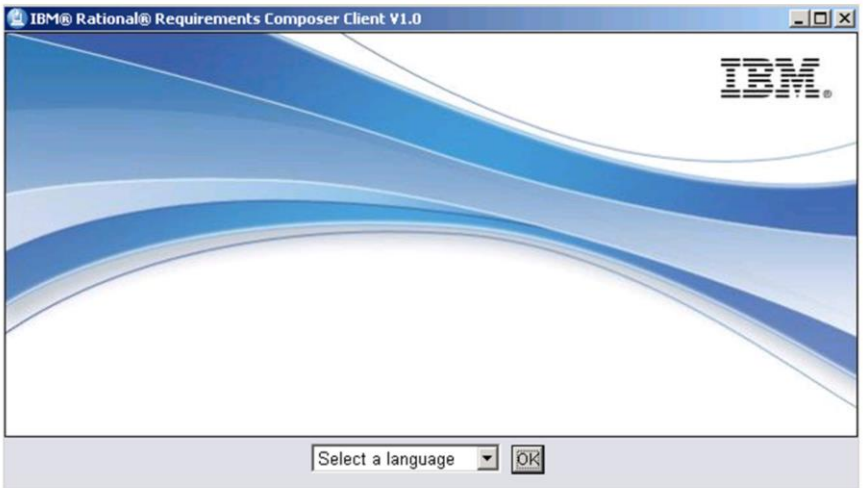
After extracting the installation bits to your system, begin the installation by running the **launchpad.exe** from the setup folder. Follow the same procedure you used to install the server by installing the latest patch for the client during the installation.

Installing the Rational Requirements Composer client (continued)

- Begin the installation



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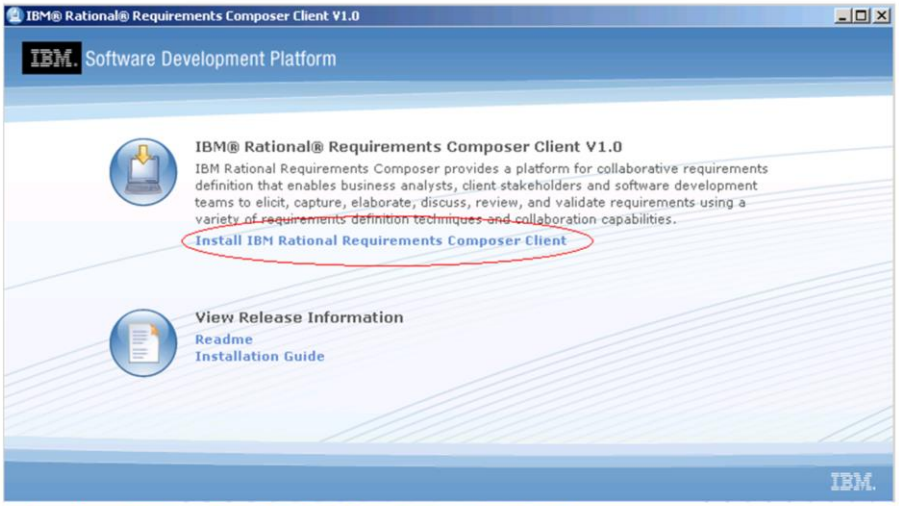
To begin the installation, select the display language to be used for the Installation Manager.

Installing the Rational Requirements Composer client (continued)

- Begin the installation



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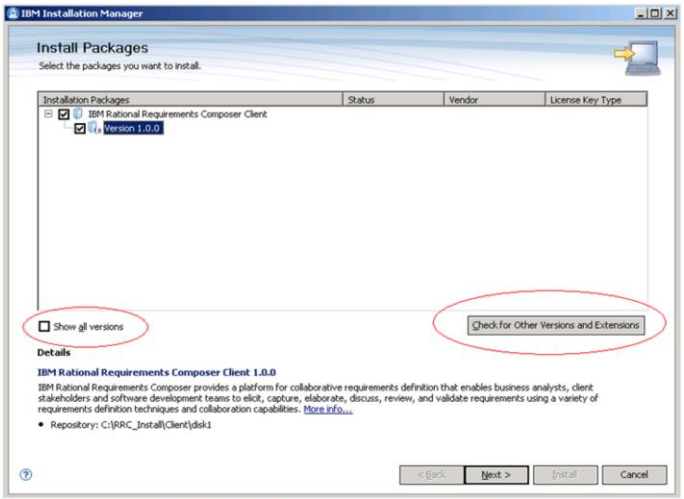
Click the button **Install IBM Rational Requirements Composer Client** to launch the installer. You already installed the Installation Manager when the server was installed. Installation Manager will now launch and continue setup.

Installing the Rational Requirements Composer client (continued)

- Checking for updates



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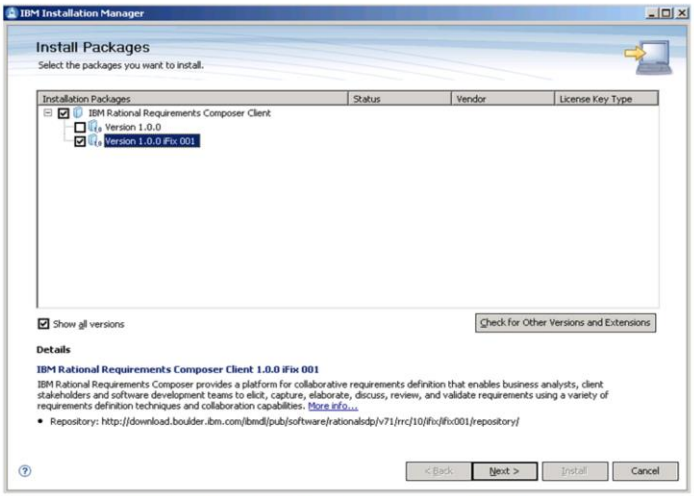
Installation Manager will launch with the package IBM Rational Requirements Composer Client, with Version 1.0.0 selected. As you did with the server installation, install the latest patch for the Rational Requirements Composer client by selecting **Check for Other Versions and Extensions**, and then clicking **Show All Versions**.

Installing the Rational Requirements Composer client (continued)

- Checking for updates



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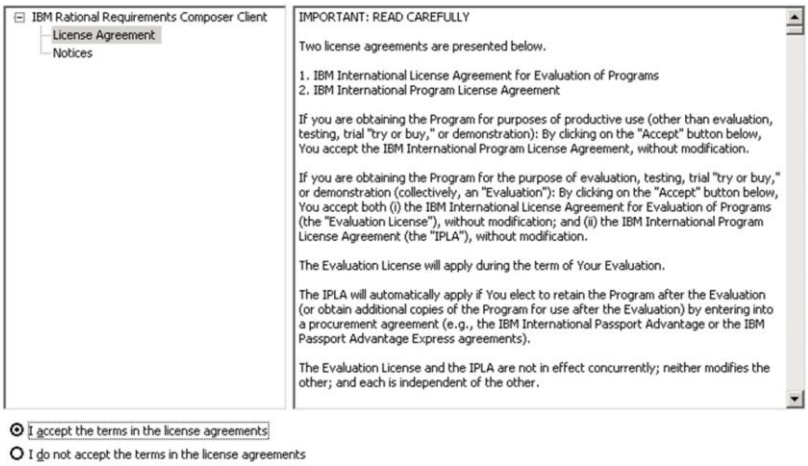
Select the latest release available, and click **Next** to begin the Installation. In this demonstration, Version 1.0.0 iFix001 is the latest release.

Installing the Rational Requirements Composer client (continued)

- Accepting the license agreement



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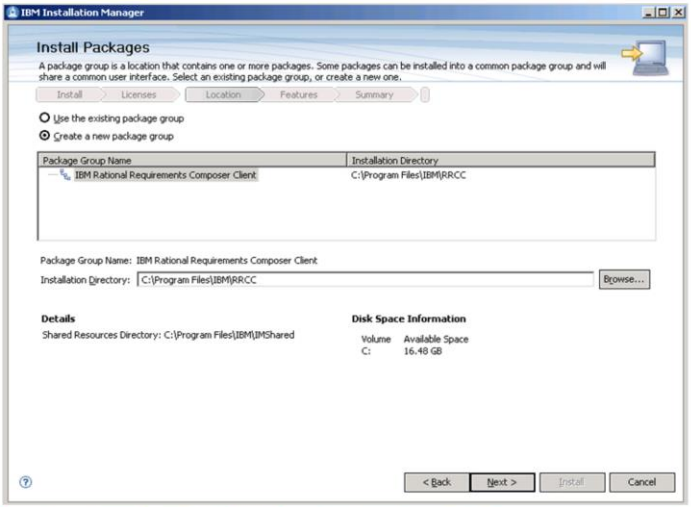
Read the license agreement, and select the button "**I accept the terms in the license agreements"** if you accept the terms. Then click **Next** to continue with the installation.

Installing the Rational Requirements Composer client (continued)

- Creating the package group



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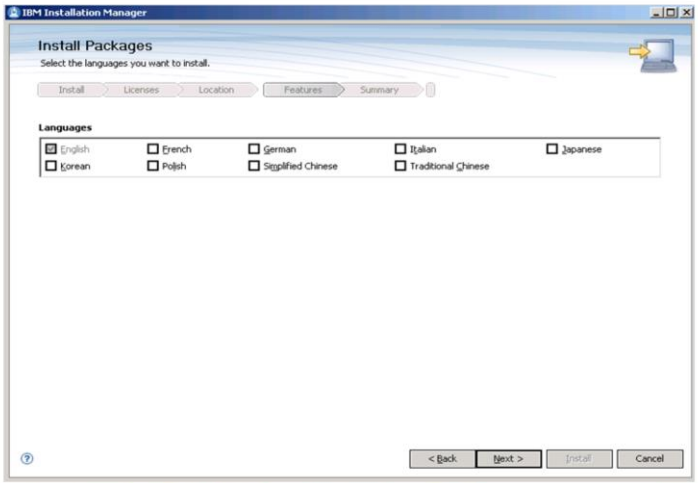
Install the RRC client to a new package group that has not yet been defined. The default package group is **C:\Program Files\IBM\RRCC**. If you want to install to an already existing package group, you can choose to do so by selecting the ***Use the existing package group*** button. For this demonstration, you will create a new package group. Click **Next** to continue.

Installing the Rational Requirements Composer client (continued)

- Selecting the client language



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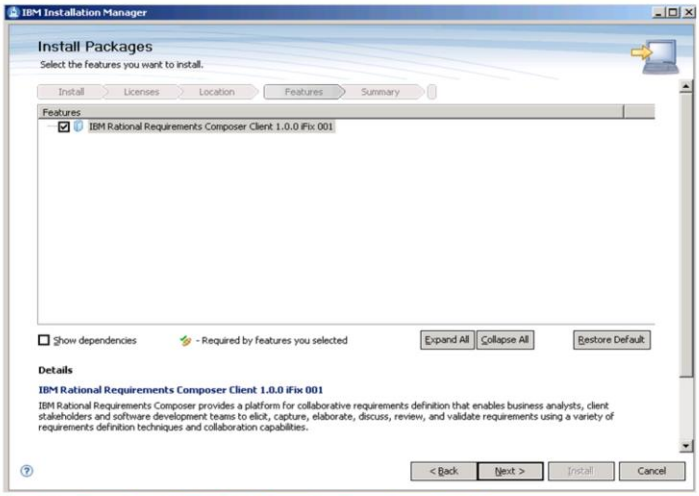
Select the language for the Rational Requirements Composer client, and click **Next** to continue the installation.

Installing the Rational Requirements Composer client (continued)

- Selecting the feature to be installed



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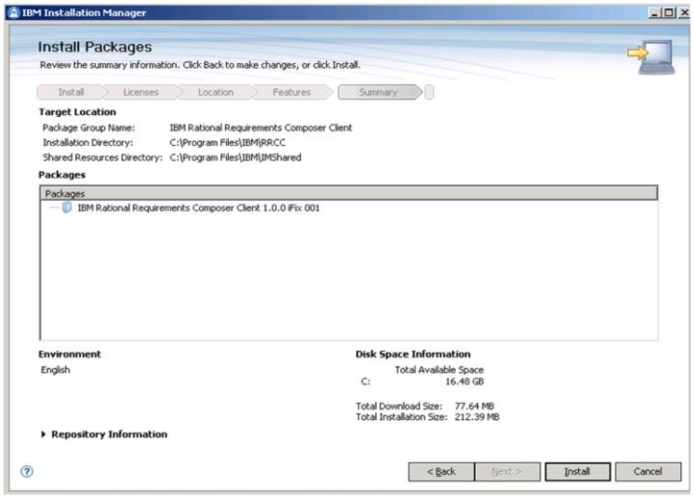
You are now presented with a screen that asks you to select the feature to be installed. In this case, select the default **IBM Rational Requirements Composer Client 1.0.0 iFix001**. Click **Next** to begin the installation.

Installing the Rational Requirements Composer client (continued)

- Installation summary



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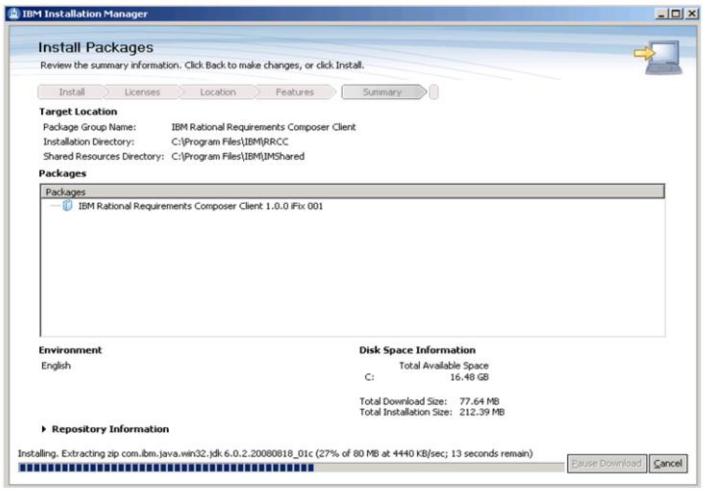
This screen gives you a summary of your installation. Included in this screen is information about free disk space, the download size, and the size of the installation once completed. Click **Install** to begin copying files.

Installing the Rational Requirements Composer client (continued)

- Copying files



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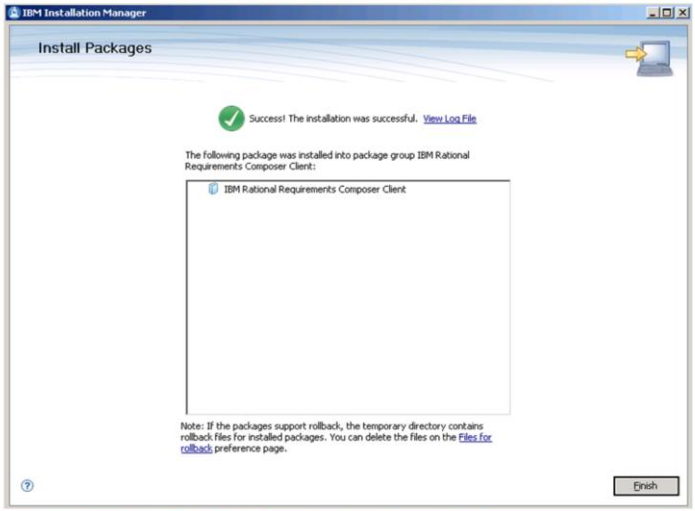
Files are copied on to your server, and the installation will finish. IBM Rational Requirements Composer Client 1.0 with iFix001 is now present on your system.

Installing the Rational Requirements Composer client (continued)

- Installation complete



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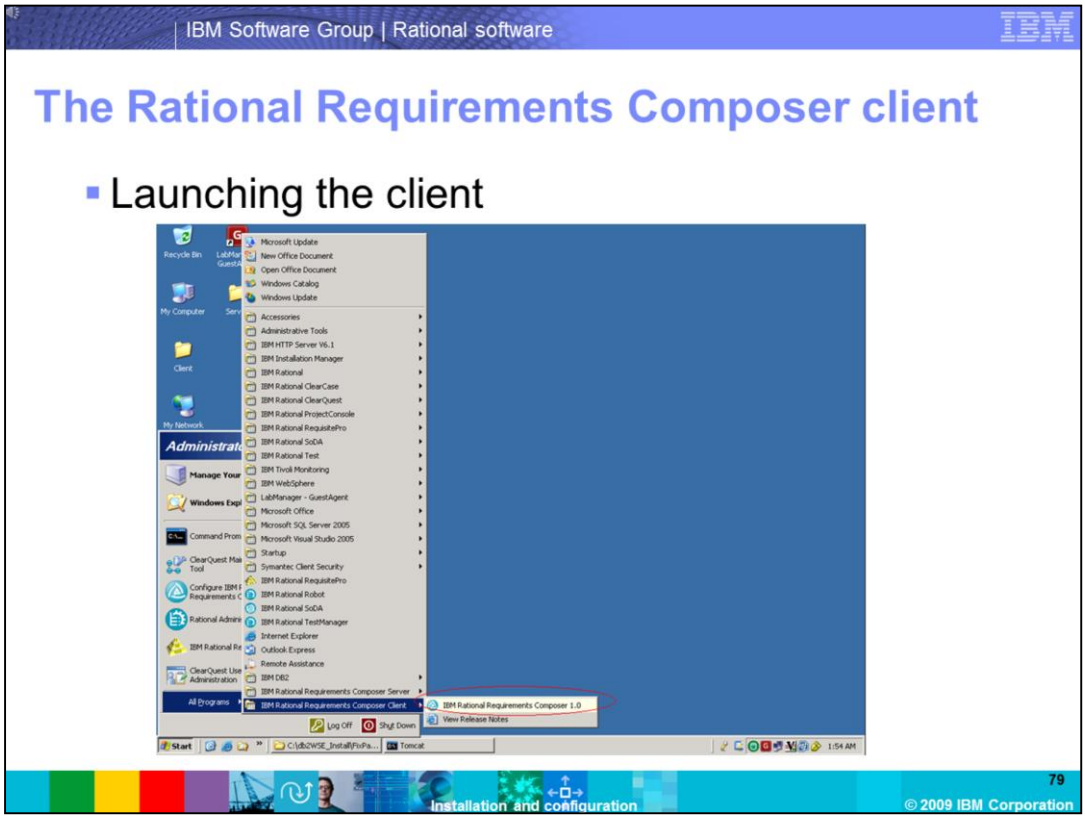
Once the installation has finished, a confirmation page opens stating that the installation has completed successfully. Click **Finish** to close the installation wizard.



After the Rational Requirement Composer client has been installed, launch the client by clicking **Start** -> **Programs** ->**IBM Rational Requirements Composer 1.0.**

The Rational Requirements Composer client (continued)

- Launching the client

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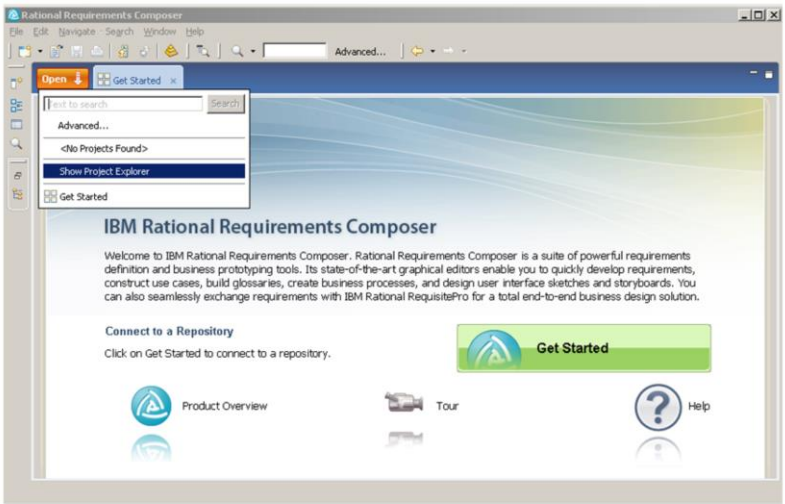
Once the application has launched, you can see the **Getting Started** page. The goal is to connect to a project repository and to create a project.

The Rational Requirements Composer client (continued)

- Project Explorer



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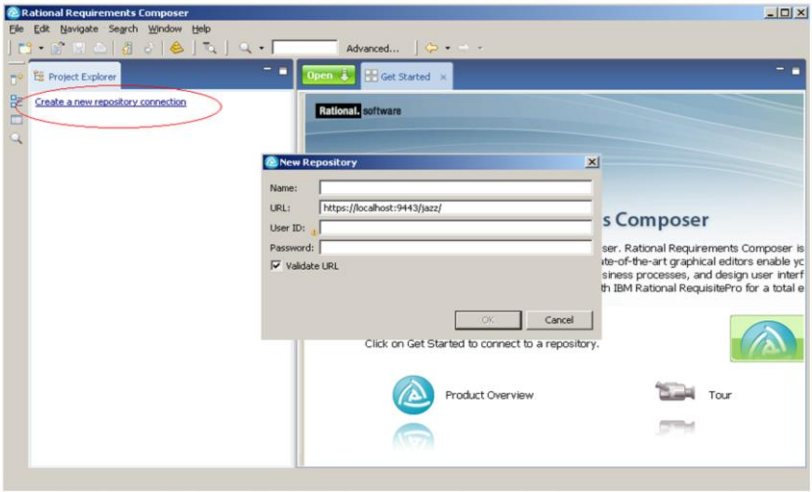
Switch to the project explorer by clicking the **Open** button, and selecting **Project Explorer**.

The Rational Requirements Composer client (continued)

- Connecting to a repository



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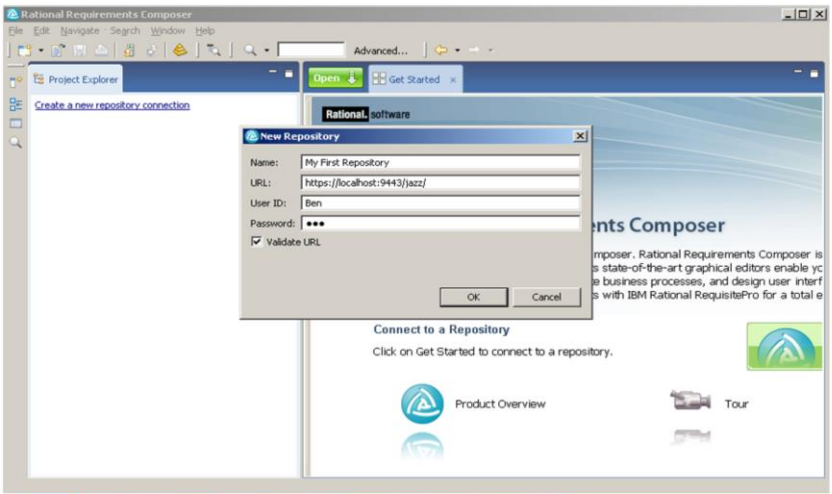
Since there are no repository connections defined, your only option is to create one. Click **Create a new repository connection** to bring up the repository configuration dialog.

The Rational Requirements Composer client (continued)

- Connecting to a repository



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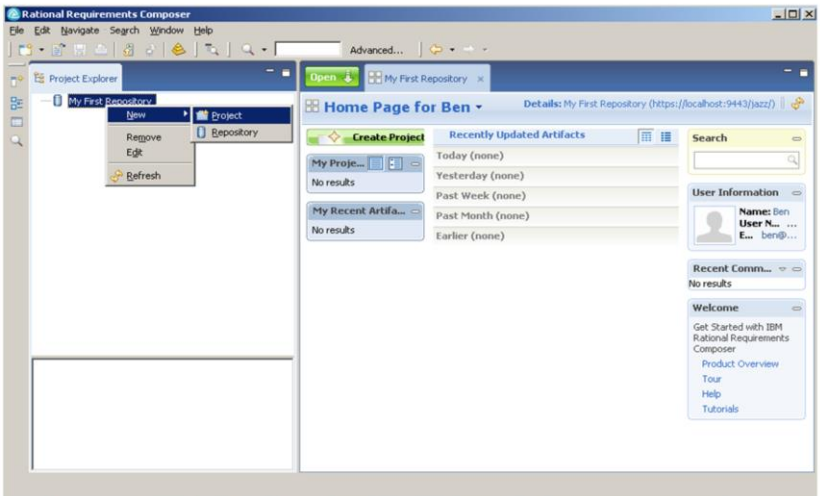
Enter a name for the new repository, and specify one of the users you have created who is connecting to the repository. For this demonstration , leave the default URL since you have installed the client on the same machine as the server. The URL is pointing to localhost on the default port 9443.

The Rational Requirements Composer client (continued)

- Creating a project



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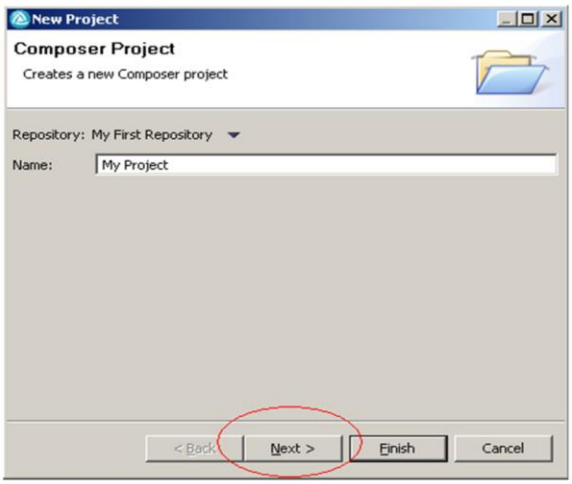
You now have a connection to your repository, and you can finish your demonstration by creating a project. You create your project by right clicking on the repository you just created, and selecting **New -> Project.**

Installing the Rational Requirements Composer client (continued)

- Creating a project



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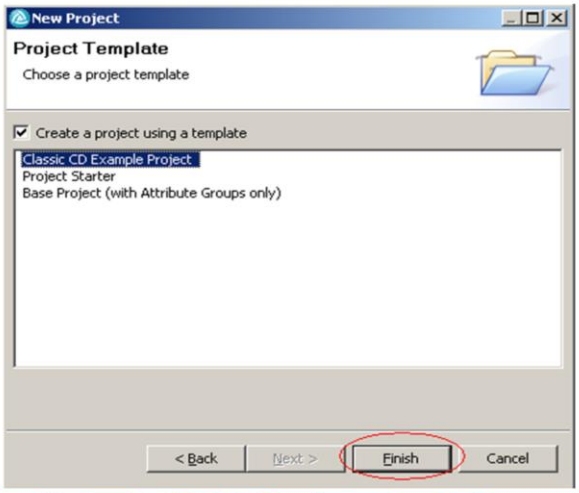
Enter a name for the new project, and select **Next**.

Installing the Rational Requirements Composer client (continued)

- Creating a project



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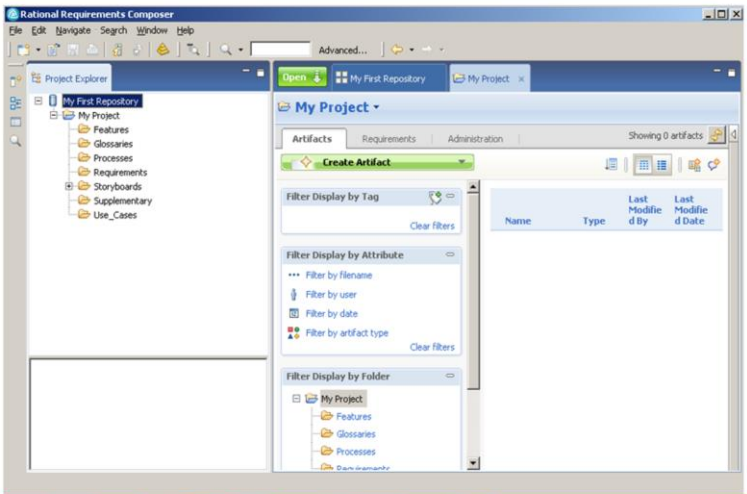
For this demonstration, select the **Classic CD Example Project**, and click **Finish**.

Installing the Rational Requirements Composer client (continued)

- Creating a project



Installation and configuration
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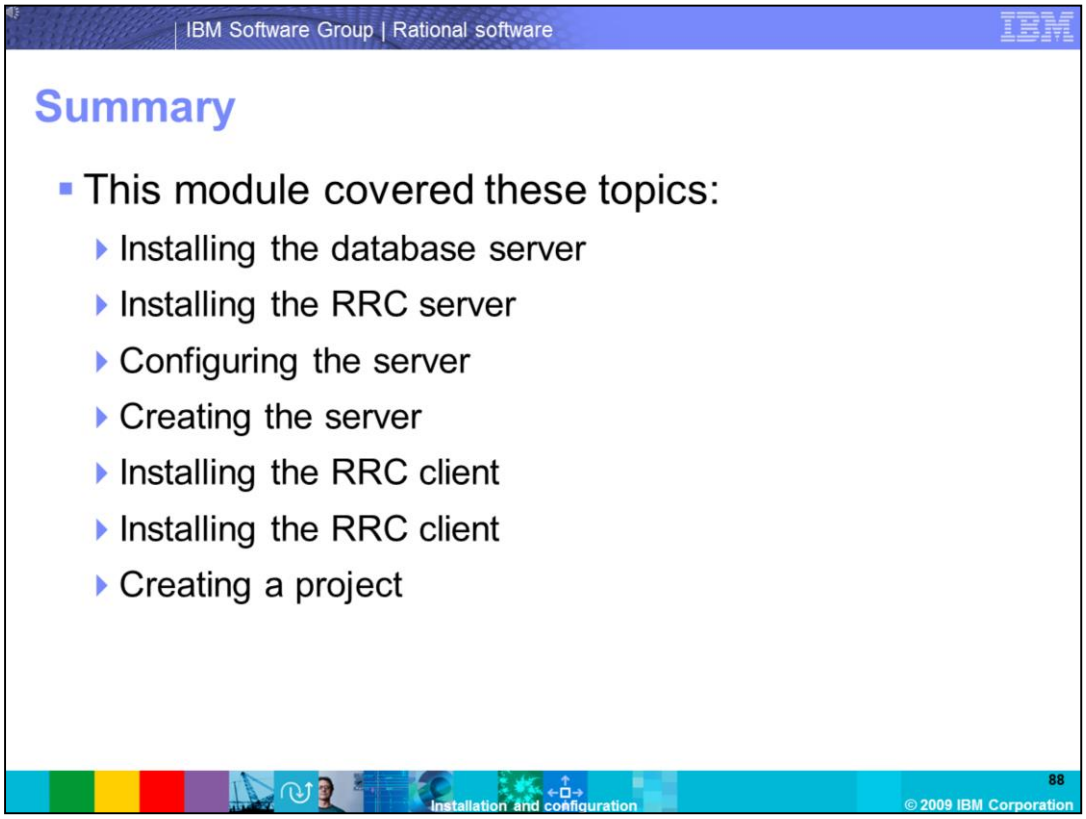
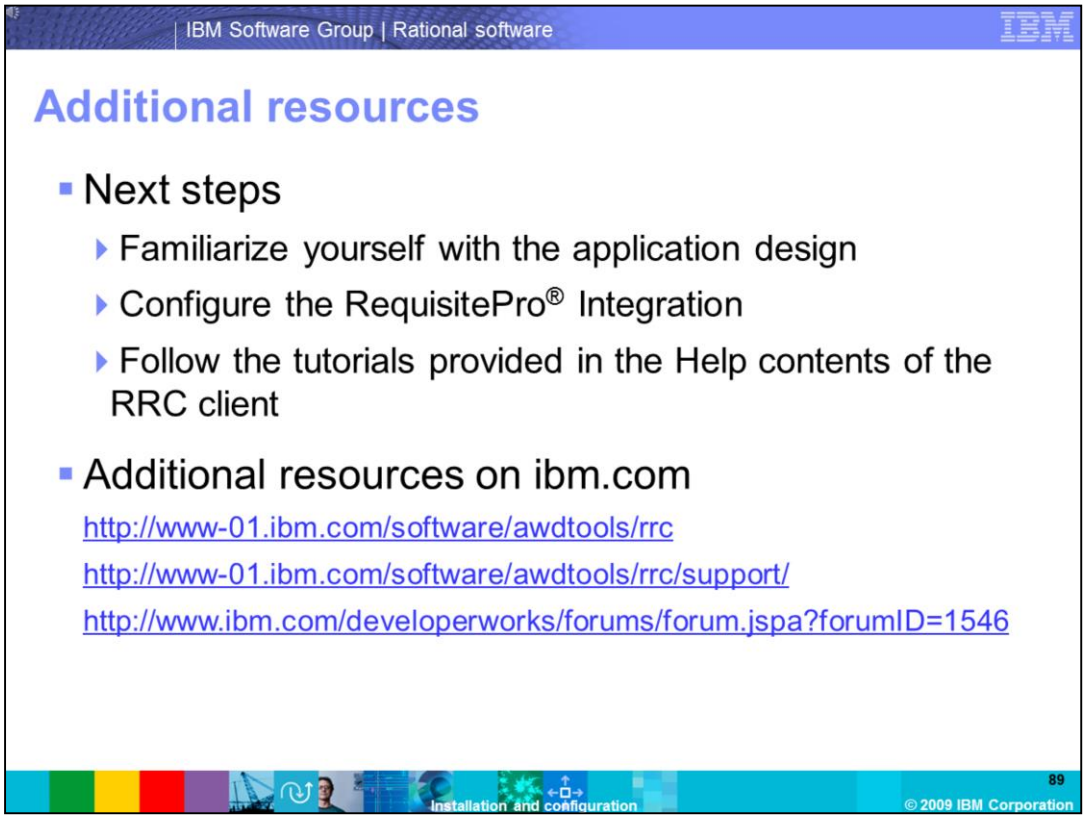
The new project has been created successfully. This concludes the demonstration of installing the Rational Requirements Composer Client and Server.



In summary, this module covered several topics. Installing the database server, installing the Rational Requirements Composer server, configuring the server, creating the server, installing the Rational Requirements client, connecting to a repository , and creating a project. As an administrator, you should be comfortable with the basic installation tasks the were covered in this module.



The next steps are to familiarize yourself with the application design, configure the Requisite Pro Integration and follow the tutorials provided in the Help contents of the RRC client. Additional resources can be found on www.ibm.com, on the RRC support page and on the RRC DeveloperWorks user forum.

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