WebSphere® IBM WebSphere Dynamic Process Edition
Version 6.2

Standalone Server Installation Guide

Fifth Edition (December 2008)

This edition applies to version 6, release 2 of IBM WebSphere Business Services Fabric and to all subsequent releases and modifications until otherwise indicated in new editions.

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WebSphere Dynamic Process Edition Stand-alone installation

Introduction

WebSphere Dynamic Process Edition provides dynamic BPM capabilities to assemble and manage composite business applications.

The WebSphere Dynamic Process Edition stand-alone installation guide provides the business context for the software that will be installed and configured. This software supports process optimization across heterogeneous, dynamic, transaction-rich environments, requiring enterprise-wide integration capabilities and SOA.

WebSphere Dynamic Process Edition provides dynamic BPM capabilities to assemble and manage composite business applications, which:

- Increases responsiveness to changing business needs through dynamic service selection and policy-driven composite applications
- Enables faster process change and easier maintenance through policy configuration instead of coding and redeployment
- Flexibly aggregates business functionality from disparate legacy, third-party, custom, and packaged systems to increase service reuse
- Extends and enhances existing IT capabilities without requiring time-consuming and costly IT system ″rip and replace″ projects
- Includes optional IBM Industry Content Packs that reduce time to market, simplify interoperability, and drive industry standards compliance.

This installation information in this guide supports the typical set of server runtime products shipped together in WebSphere Dynamic Processes Edition.

Use the WebSphere Dynamic Processes Edition client installer to install the development products that are used in concert with the server runtime products. The WebSphere Dynamic Processes Edition client installer is documented in a separate installation guide.

WebSphere Dynamic Process Edition architecture

The WebSphere Dynamic Process Edition architecture diagram illustrates the logical functions that exist in the environment (and can be optionally integrated with) and the new logical functions that will be working once the stand-alone installation is complete.

The WebSphere Dynamic Process Edition architecture diagram helps create understanding of what function the installation topology should focus on providing.

Review the following diagram to gain an understanding of major elements of the IT system that can be deployed for a the topology, and their connections. Use the diagram as a foundation or starting point for a conceptual understanding of a solution design system topology, and the product mapping information can be used in physical level of the system topology diagram.

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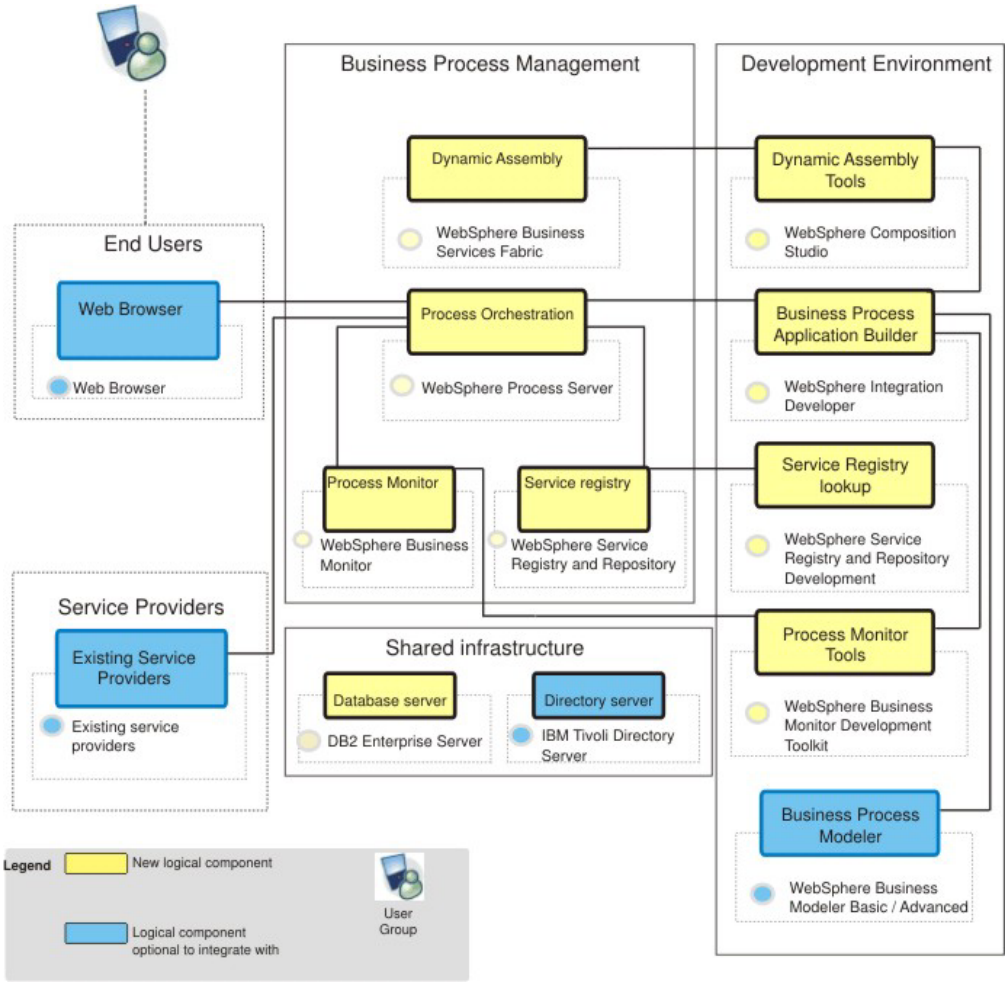


Planning your installation

Installing WebSphere Dynamic Process Edition requires the correct required software, as well as the correct prerequisite software.

Planning information includes a listing of the appropriate software with links to product resources, as well as a description of the system environment that will be installed and the system requirements.

Software requirements

You must have the appropriate software versions available for installation.

The following table lists the installation and the software requirements for the WebSphere Dynamic Process Edition installation.

The **Information resources** column of the table provides links to product information pages for the products that are part of WebSphere Dynamic Process Edition.

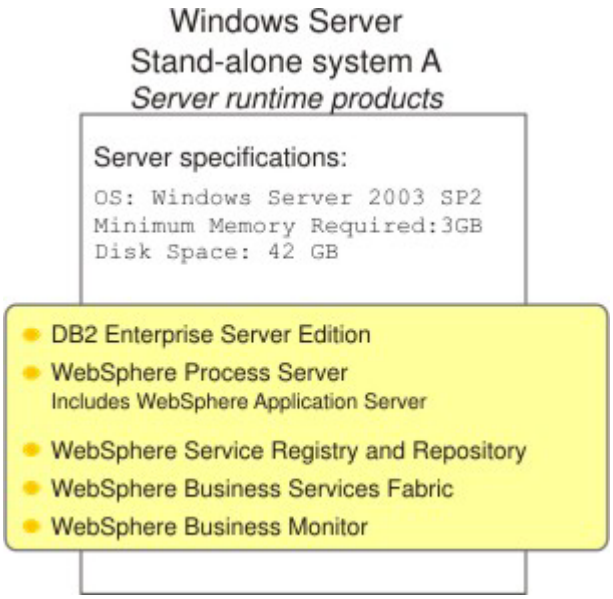
Table 1. WebSphere Dynamic Process Edition server runtime products and associated information resources

WebSphere Dynamic Process Edition Server runtime products	**Information resources**
WebSphere Service Registry and Repository Version **6.2.0.2**	WebSphere Service Registry and Repository resources
WebSphere Business Services Fabric Version **6.2**	WebSphere Business Services Fabric resources
WebSphere Process Server Version **6.2**	WebSphere Process Server resources
WebSphere Application Server Version **V6.1.0.21**	WebSphere Application Server resources
DB2 Enterprise Server Edition **V9.5**	DB2 Product Information Center
WebSphere Business Monitor Version **6.2**	WebSphere Business Monitor resources

High-level physical topology

The high-level physical topology is represented by a diagram that shows the systems (server runtime and development), operating system, space requirements and software needed for WebSphere Dynamic Process Edition.

It can help you confirm that this is a system topology you are interested in and helps you with high-level planning of resource requirements such as a number of systems.



The diagram illustrates the systems, operating systems, and software needed.

The installation instructions for the development tools that are used in conjunction with WebSphere Dynamic Process Edition server runtime products are described in the client installation documentation.

Installation sequence and system specifications

The WebSphere Dynamic Process Edition stand-alone topology consists of several server runtime products.

The information explicitly states the install order that is the organizing principle of the installation documentation.

WebSphere Dynamic Process Edition Server runtime node

The WebSphere Dynamic Process Edition Server runtime node hosts the runtime products and has the following specifications:

- Minimum memory needed: 3 GB
- Disk space: 42 GB
- Installed operating system: Windows Server 2003 Standard Edition, SP2

The server runtime products are installed manually in the following order:

1. DB2 Enterprise Server Edition
2. WebSphere Process Server (WebSphere Application Server installs with WebSphere Process Server)
3. WebSphere Service Registry and Repository
4. WebSphere Business Services Fabric
5. WebSphere Business Monitor

Installing your software

You install the software using the installation wizard in graphical interface mode.

You can obtain the software product files in two ways, from the disks in the product package or by downloading installation images from the Passport Advantage® site, if you are licensed to do so.

This section includes instructions on installing the server runtime products for WebSphere Dynamic Process Edition. It is assumed that you have already installed the prerequisite products.

Install the products in the following sequence:

1. DB2 Enterprise Server Edition
2. WebSphere Process Server

   Includes WebSphere Application Server.
3. WebSphere Service Registry and Repository
4. WebSphere Business Services Fabric
5. WebSphere Business Monitor

DB2 Enterprise Server Edition

DB2 Enterprise 9 is the ideal data server for the most demanding workloads.

DB2 Enterprise 9:

- Easily scales to handle high volume transaction processing
- Reduces storage needs by up to 80% using industry unique automatic deep compression capabilities
- Manages performance for mixed workloads according to your priorities
- Reduces risk of unauthorized access with an innovative label based security model
- Maximizes data availability by reducing planned and unplanned downtime

DB2 Enterprise 9 needs to be installed since it is a prerequisite for WebSphere Service Registry and Repository, WebSphere Process Server, WebSphere Business Services Fabric, and WebSphere Business Monitor.

Installing DB2 Enterprise Server Edition 9.5 Fix Pack 2a

You install the software using the installation wizard. You can obtain the DB2 Enterprise Server Edition 9.5 product files in two ways, from the disks in the product package or by downloading installation images from the Passport Advantage® site, if you are licensed to do so.

You have obtained the product files.

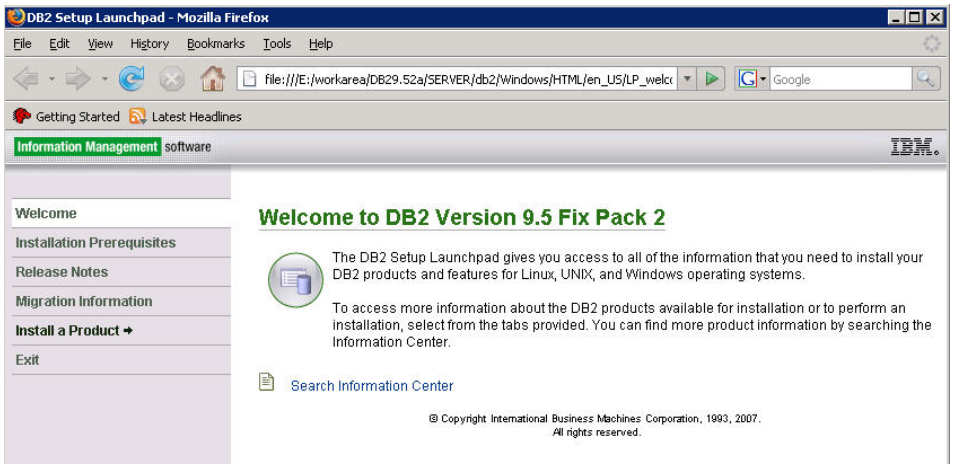
Fix Pack 2 is obtained the IBM Support page Recommended Fixes link.

The screen captures are included to make it easier to follow the step instructions.

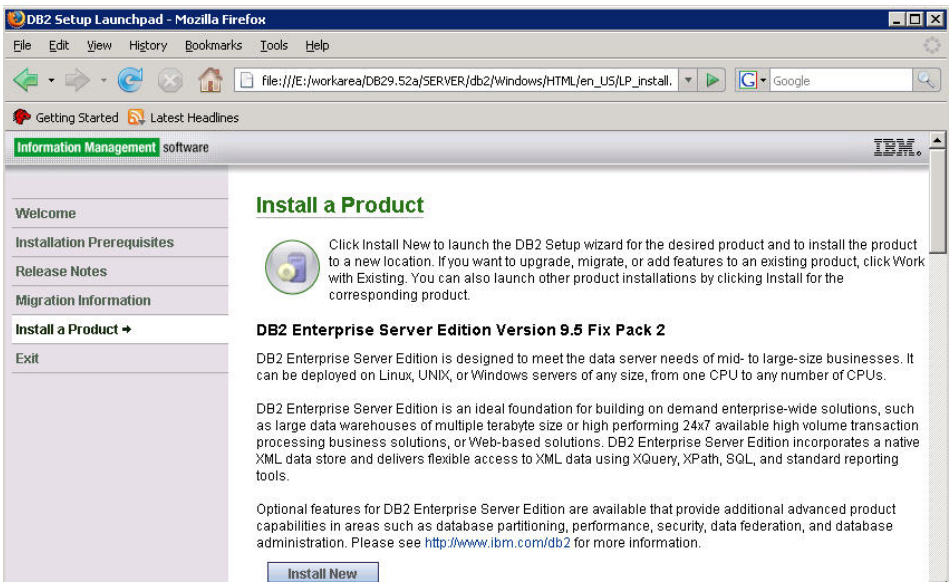
The step instructions are included to provide the specific task you need to perform and any information needed to perform the task (such as directory locations, parameters to enter, etc.)

Hints and tips are included to assist with difficult steps.

1. Launch setup.exe.
2. From the Welcome to DB2 Version 9.5 Fix Pack 2 page, click **Install a Product**.

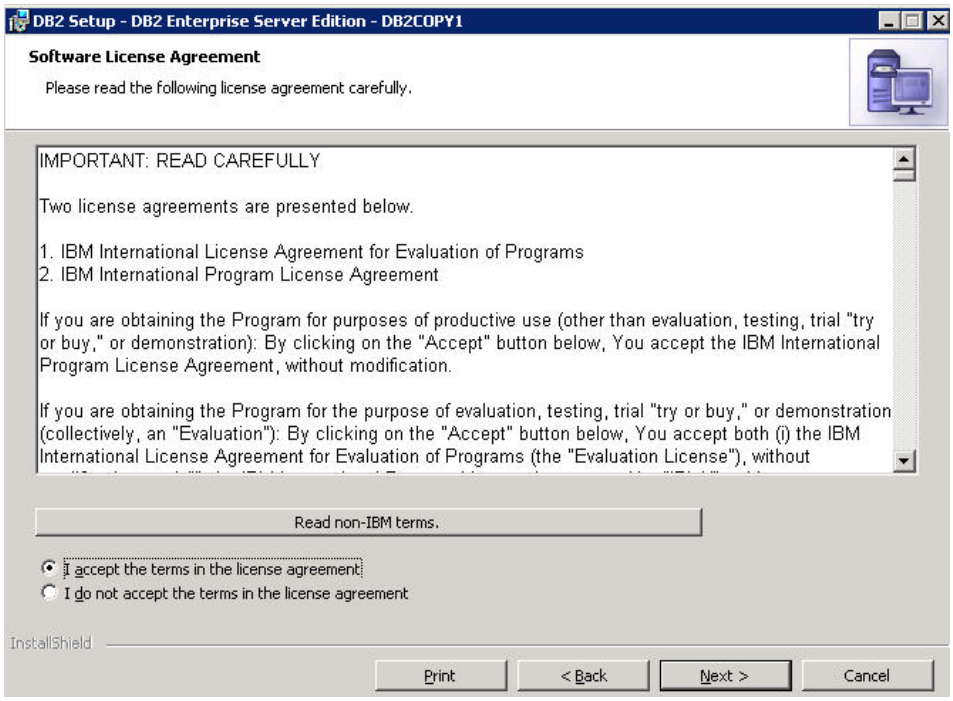


3. From the Install a Product page, click **Install New**.

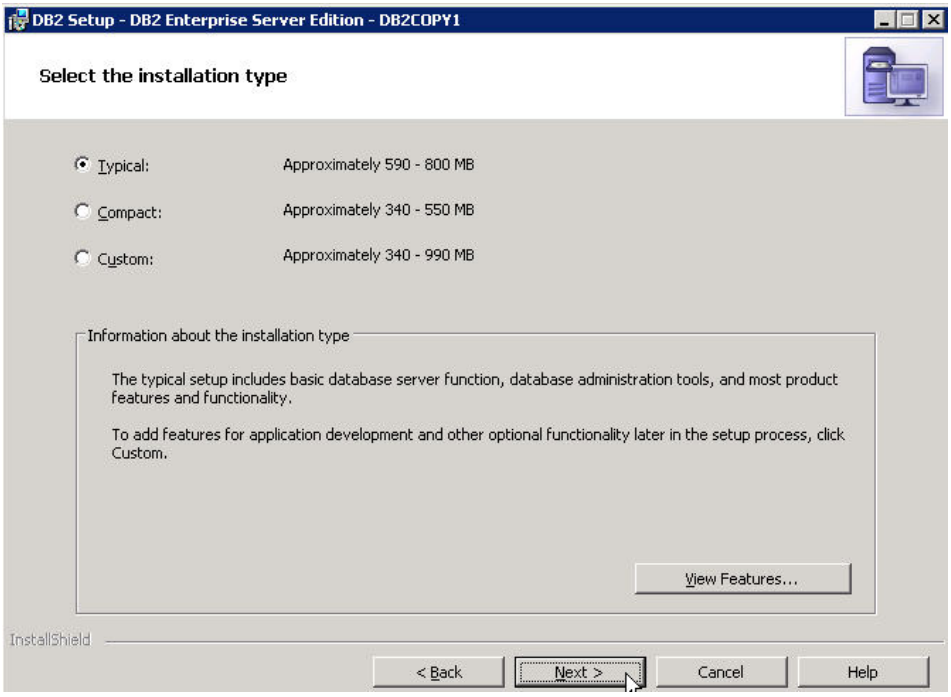


4. From the DB2 Setup Wizard page, click **Next**.

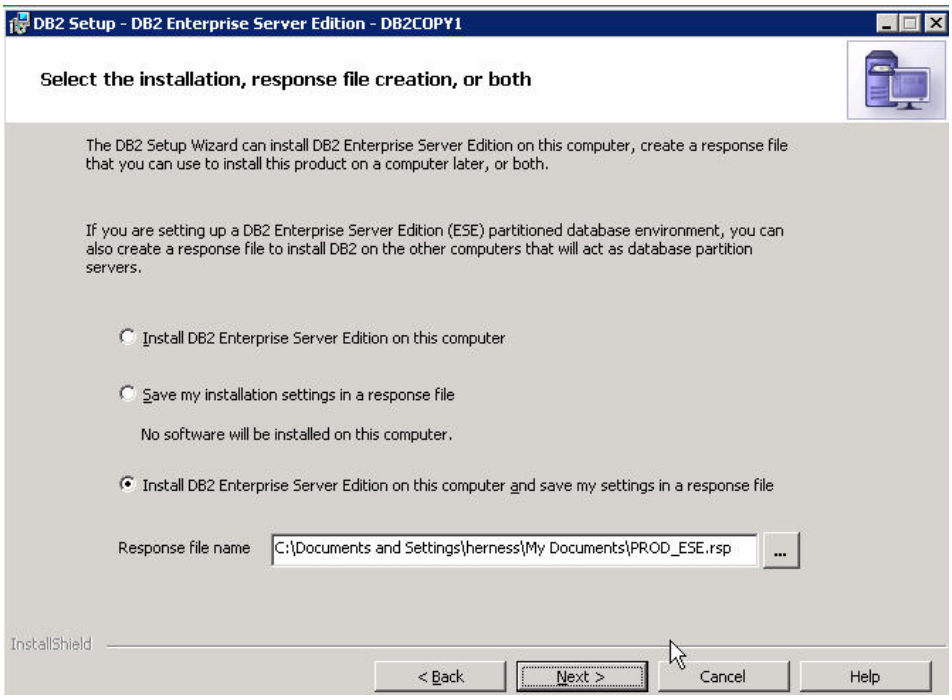
5. From the Software License Agreement page, accept the license agreement and click **Next**.



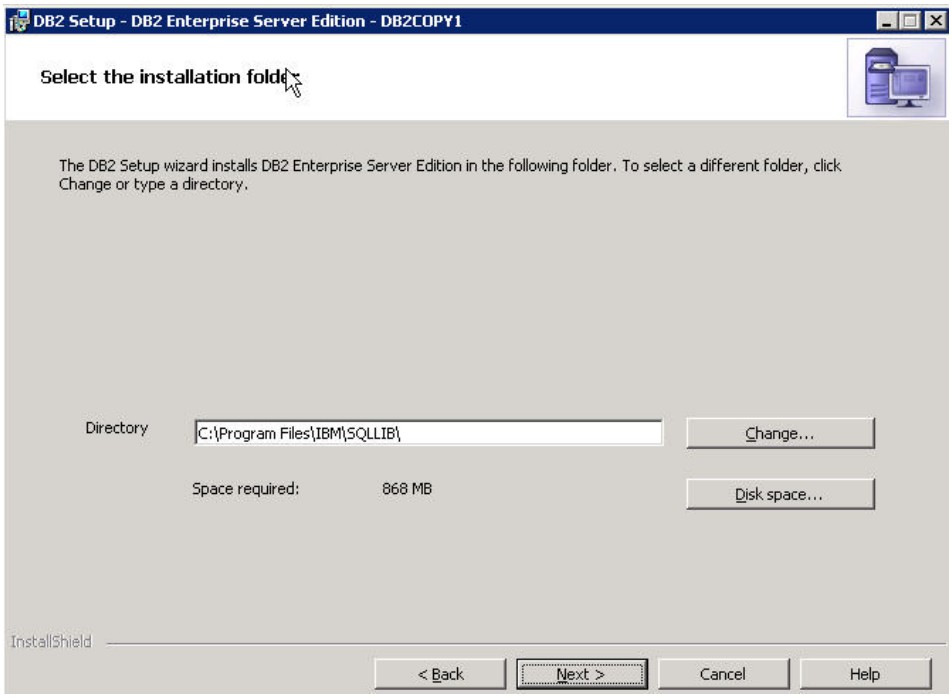
6. From the Select the installation type page, select **Typical**.



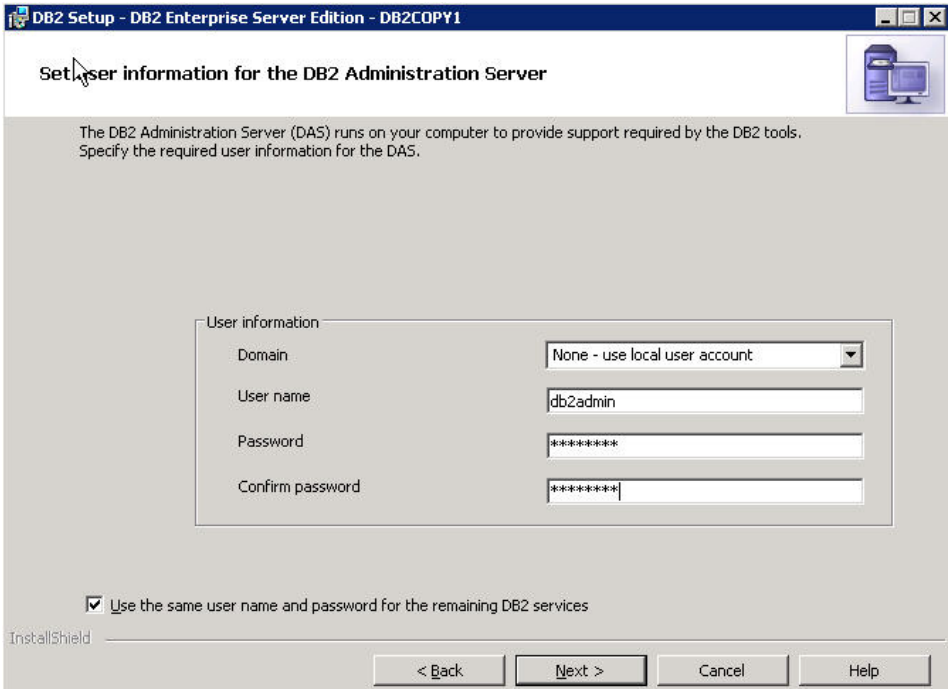
7. From the Select the installation, response file creation, or both page, select **Install DB2 Enterprise Server Edition on this computer and save my settings in a response file** and click **Next**.



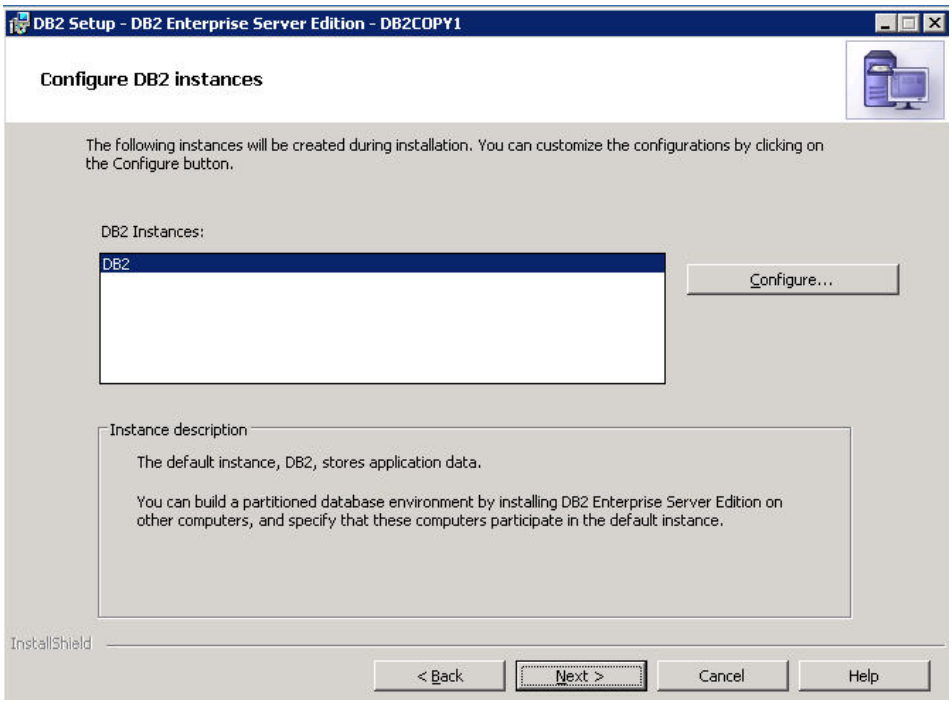
8. From the Select the installation folder page, select the directory and click **Next**.



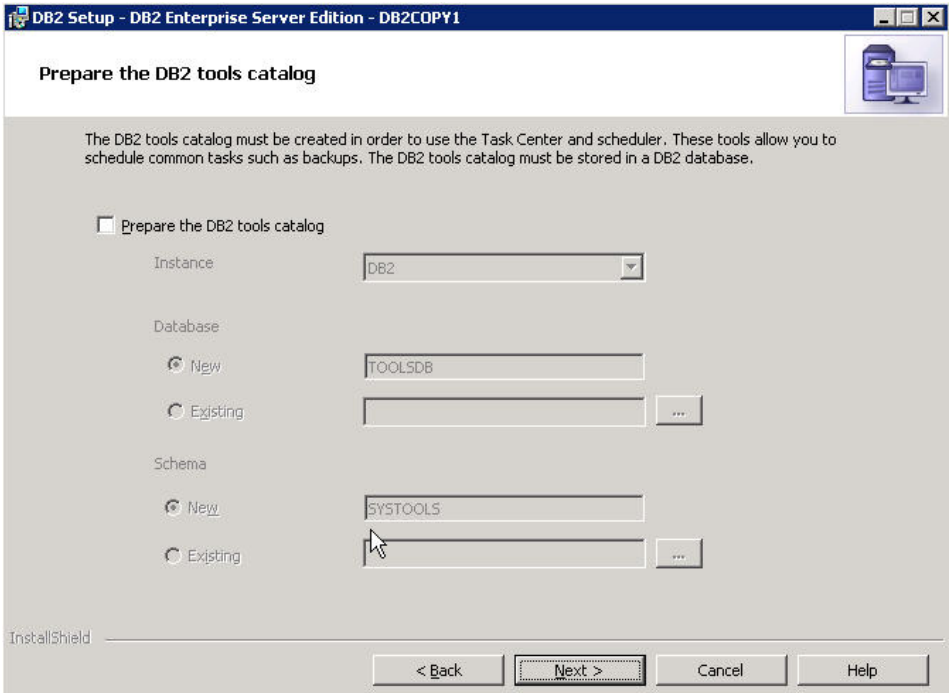
9. From the Set user information for the DB2 Administration Server page, enter a User name and Password and click **Next**.



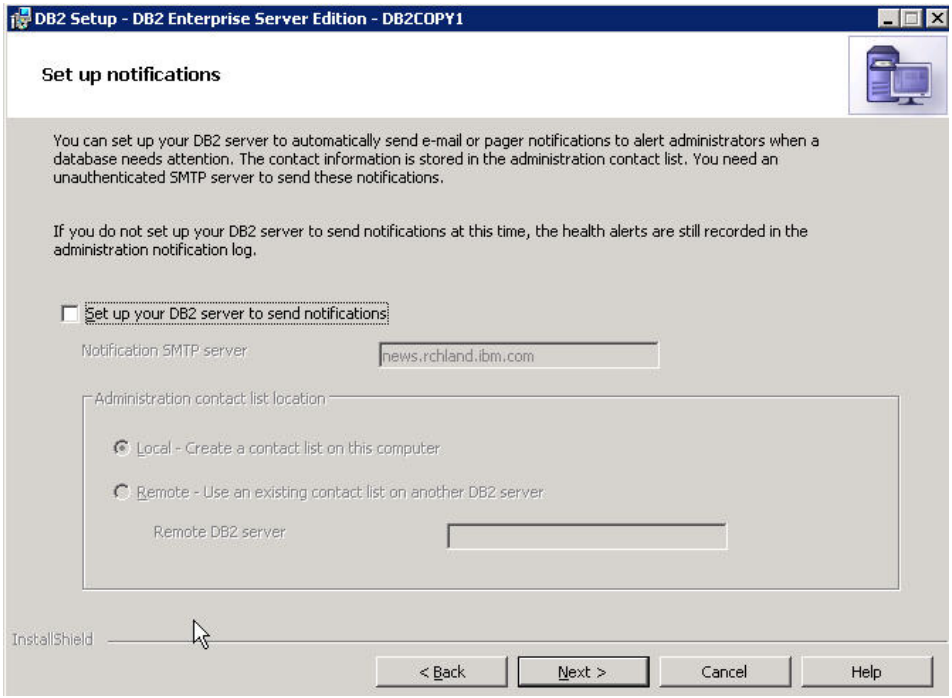
10. From the Configure DB2 instances page, select DB2 and click **Next**.



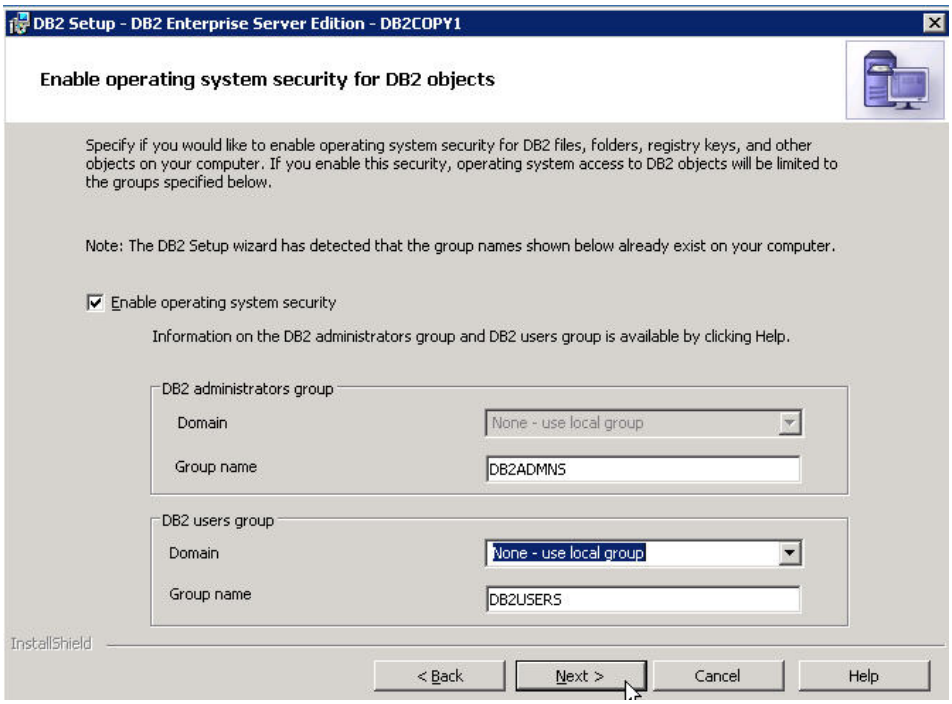
11. From the Prepare the DB2 tools catalog page select **Next**.



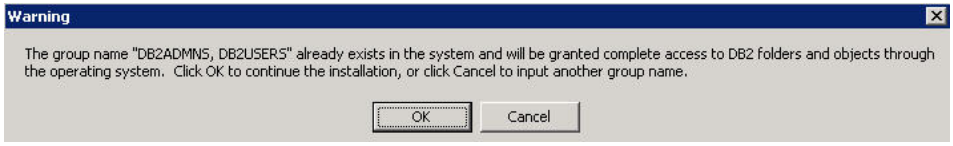
12. From the Set up notifications page, deselect the checkbox **Set up your DB2 server to send notifications** and click **Next**.



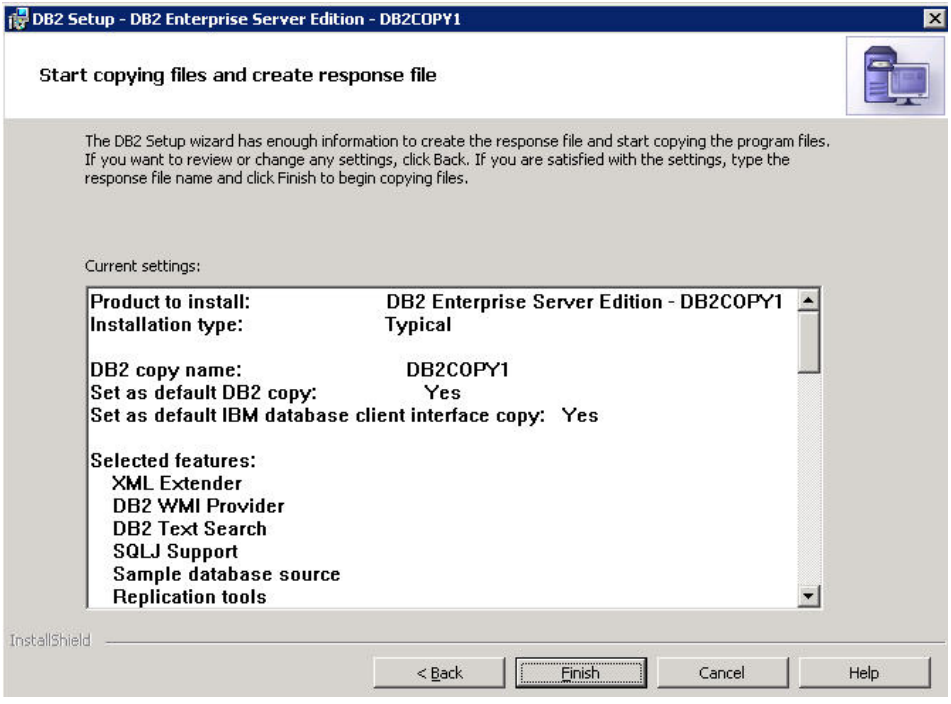
13. From the Enable operating system security for DB2 objects page, click **Next**.



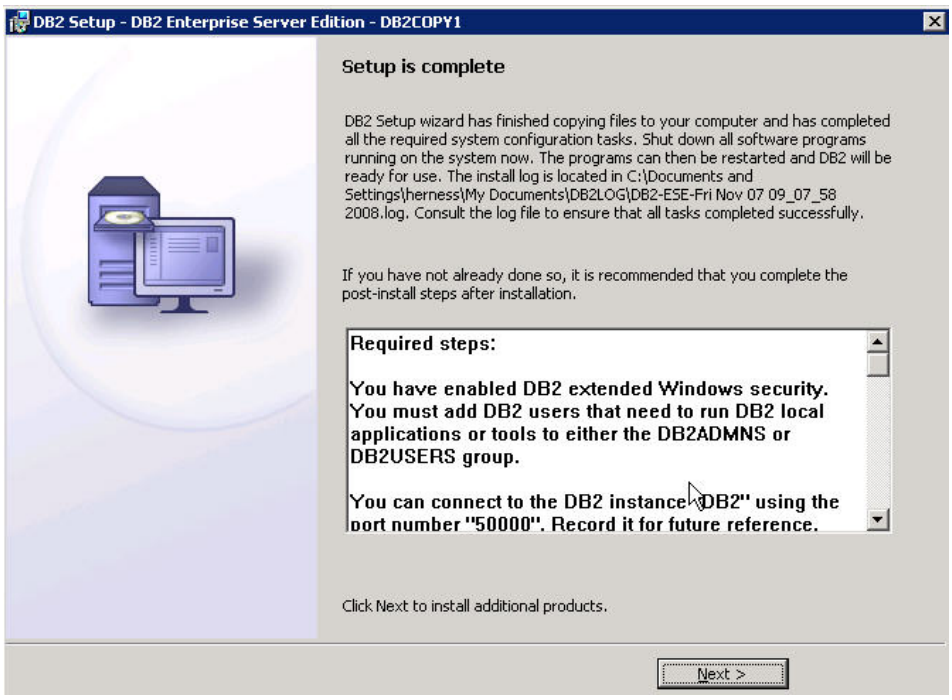
14. From the Warning that displays, click **OK**.



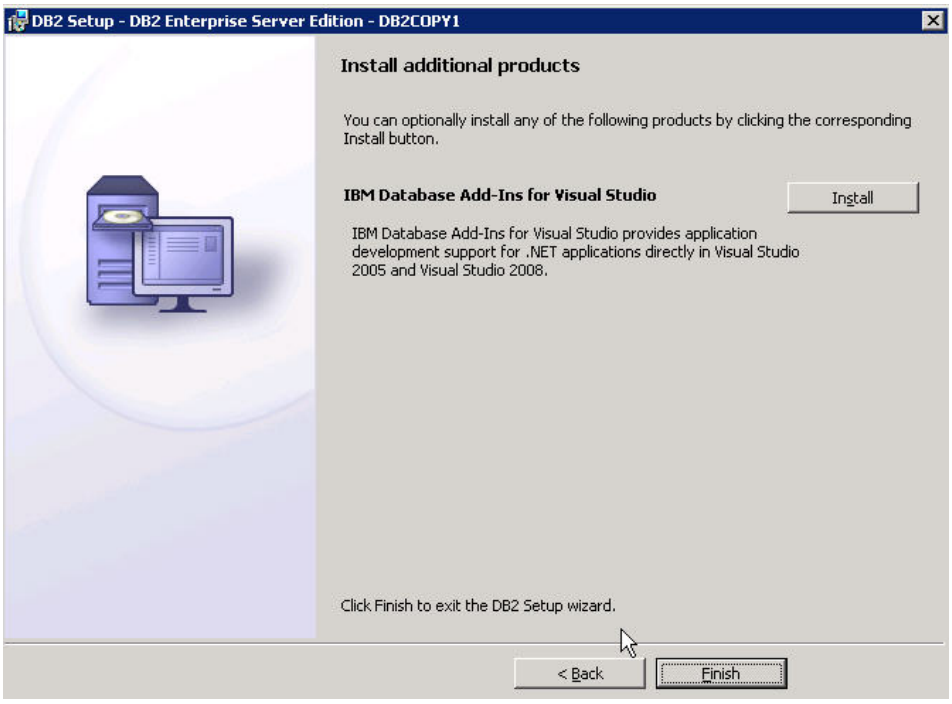
15. From the Start copying files and create response file page, click **Finish**.



16. From the Setup is complete page, click **Next**.

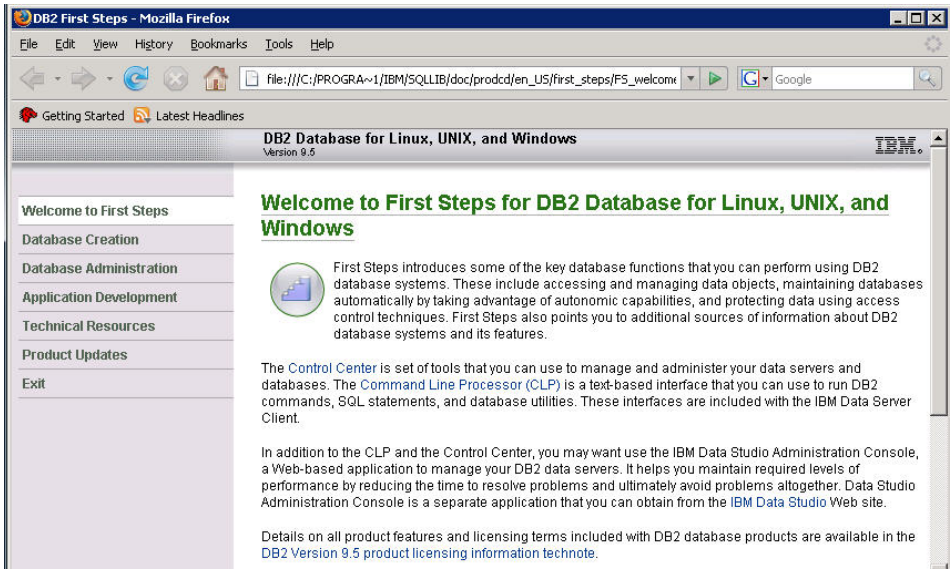


17. From the Install additional products page, click **Finish**.



18. From the DB2 First Steps prompt page, select **Do not create profile**.

19. From the First steps welcome page, click **Exit**.



20. Open a DB2 Command prompt.

21. Run the command db2stop/db2start.

```
C:\Documents and Settings\herness>db2stop
11/07/2008 12:43:43     0   0   SQL1064N  DB2STOP processing was successful.
SQL1064N  DB2STOP processing was successful.

C:\Documents and Settings\herness>db2start
11/07/2008 12:43:48     0   0   SQL1063N  DB2START processing was successful.
SQL1063N  DB2START processing was successful.
```

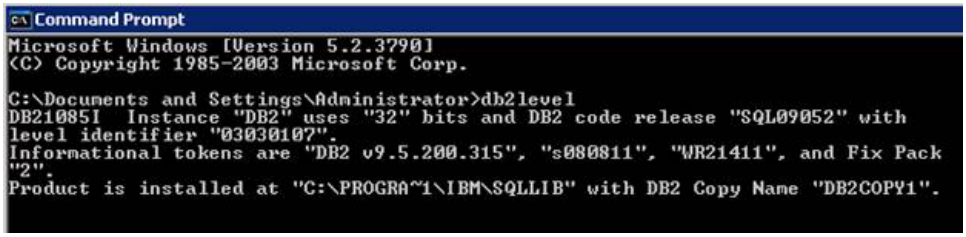
Now you can verify the DB2 installation.

Verifying the installation of DB2 Enterprise Server Edition 9.5 Fix Pack 2a

Verify the installation by checking settings and behavior to ensure the software is running.

Verification step instructions provides quick understanding of what to check to make sure the software is running properly.

1. Make sure that DB2 9.5.2 is installed by typing **db2level** in a Windows command prompt:



2. From the Start menu, open the DB2 control center.

3. The DB2 Control Center should display:

Now you are ready to install WebSphere Process Server.

WebSphere Process Server

WebSphere Process Server is required prerequisite software for WebSphere Business Services Fabric.

WebSphere Process Server is a high-performance business engine to help form processes that meet your business goals.

Built on open standards, it deploys and executes processes that orchestrate services (people, information, systems, and trading partners) within your service-oriented architecture (SOA) or non-SOA infrastructure.

WebSphere Process Server:

- Extends the value of core applications and databases by centralizing business processes and sharing them across the enterprise, enabling businesses to maximize resources and increase ROI
- Helps cut costs by enabling flexible business processes with reusable assets, reducing the need to hard-code changes across multiple applications when making changes to existing processes or creating new ones
- Ensures compliance with regulations and internal requirements by that business operations run precisely as documented
- Ensures process integrity to accommodate transaction intensive processes, while providing the scalability, reliability and flexibility needed for future business needs Strong support for human workflow and enables rapid process changes, providing business agility and enabling you to leverage resources efficiently.

Installing WebSphere Process Server 6.2

You install the software using the installation wizard. You can obtain the WebSphere Process Server 6.2 product files in two ways, from the disks in the

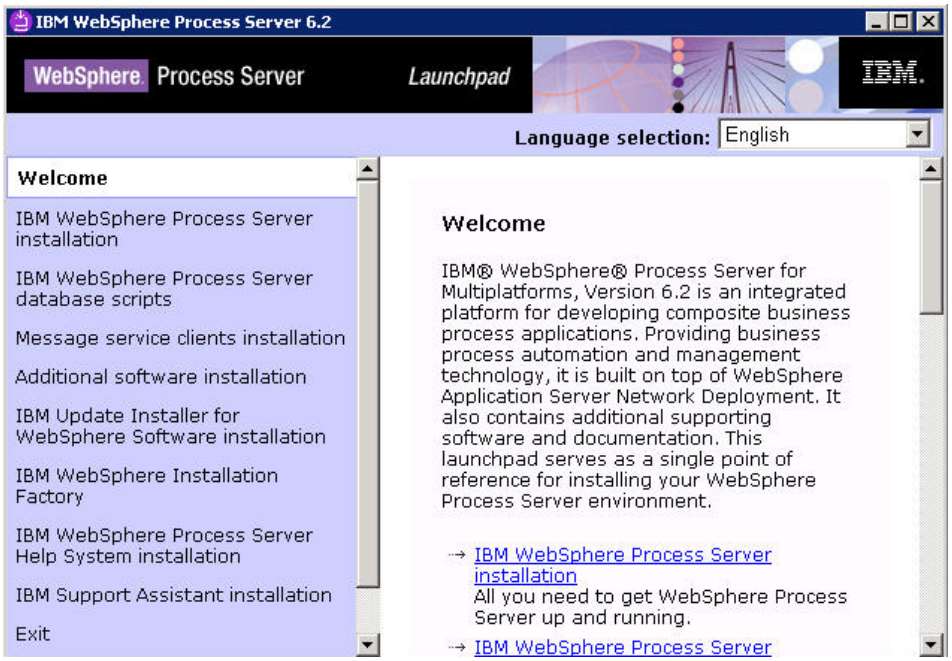
product package or by downloading installation images from the Passport Advantage® site, if you are licensed to do so.

This task describes how to install WebSphere Process Server.

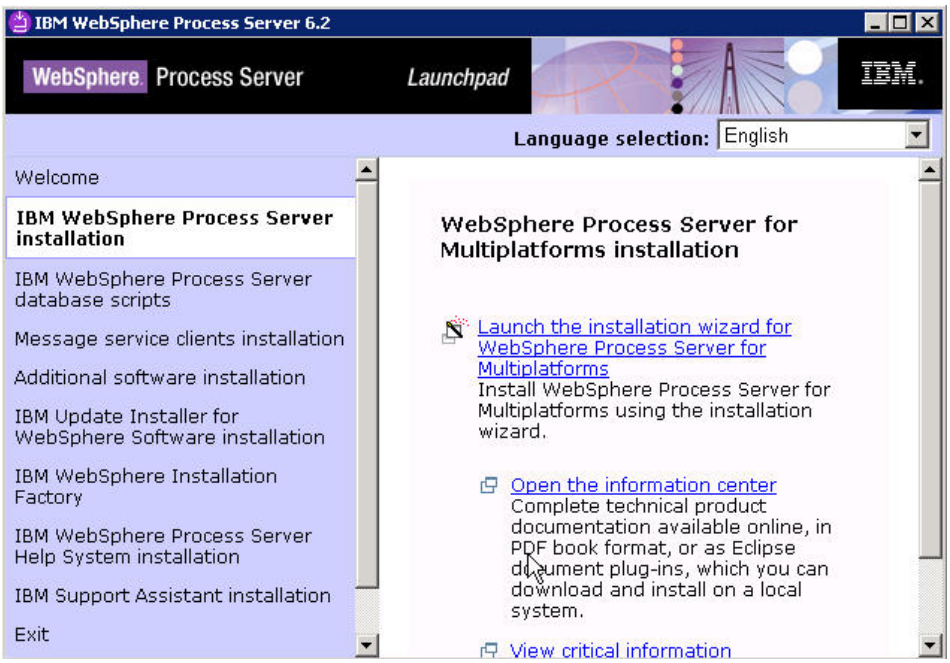
The screen captures are included to make it easier to follow the step instructions.

The step instructions are included to provide the specific task you need to perform and any information needed to perform the task (such as directory locations, parameters to enter, etc.)

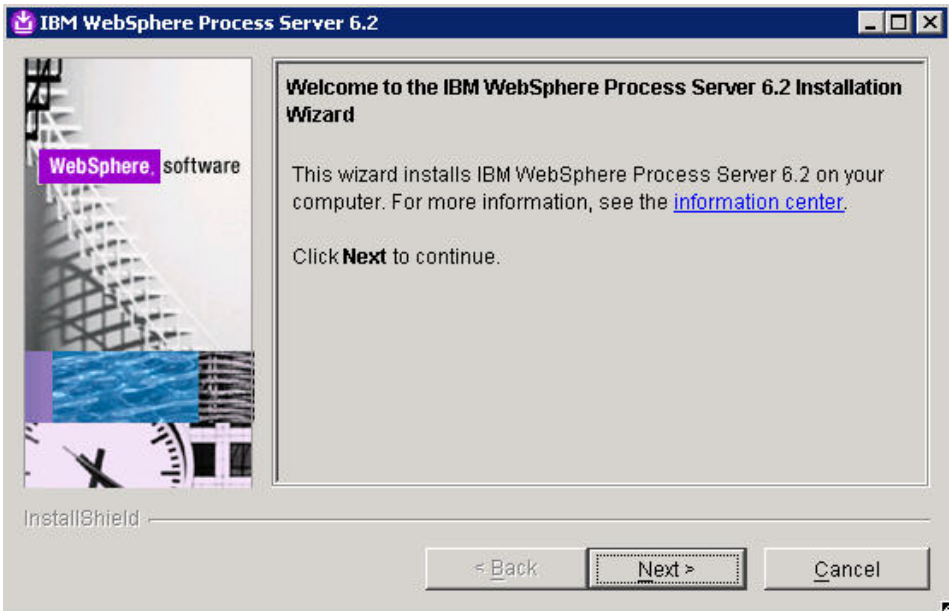
1. Run the launchpad.exe.
2. From the WebSphere Process Server Launch pad page, select **IBM WebSphere Process Server installation**.



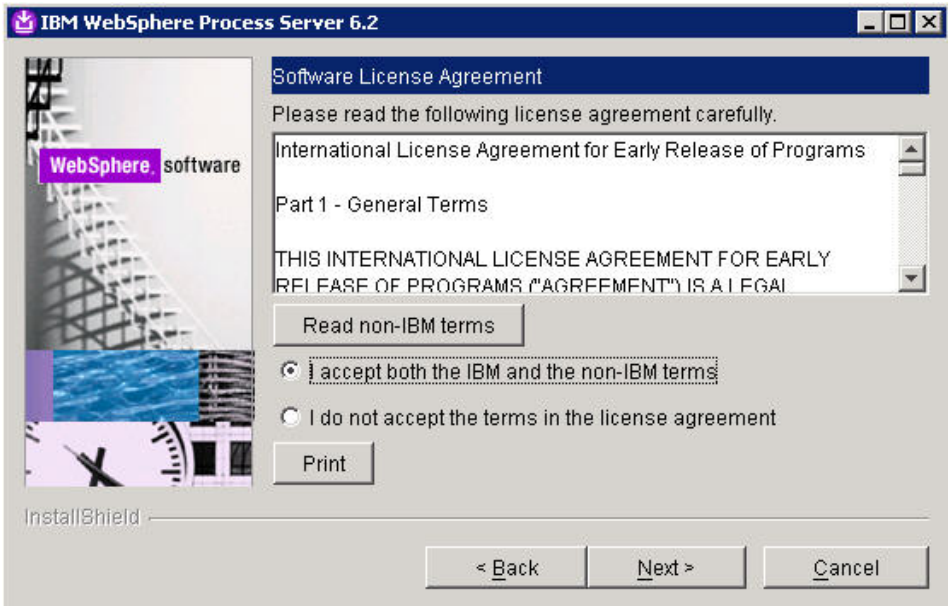
3. Select **Launch the Installation wizard for WebSphere Process Server for Multiplatforms**.



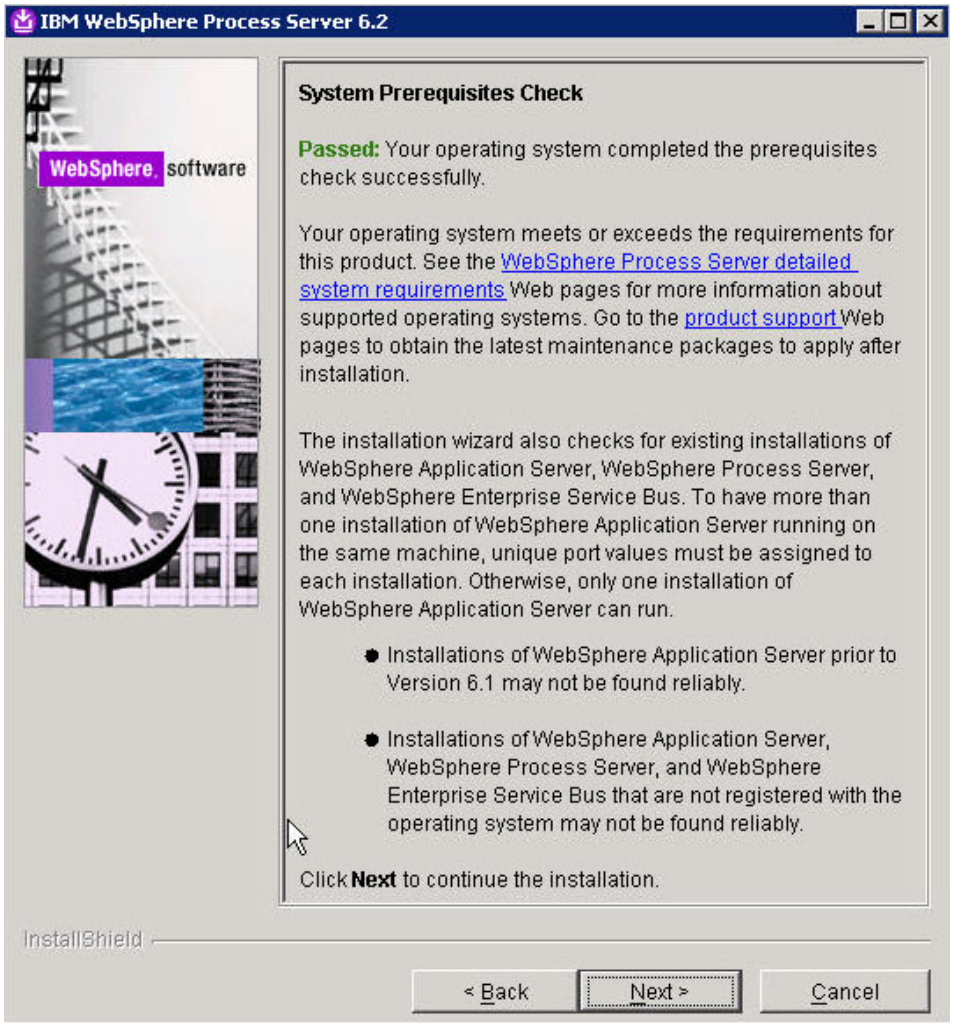
4. From the Welcome to the WebSphere Process Server Installation wizard page page, click **Next**.



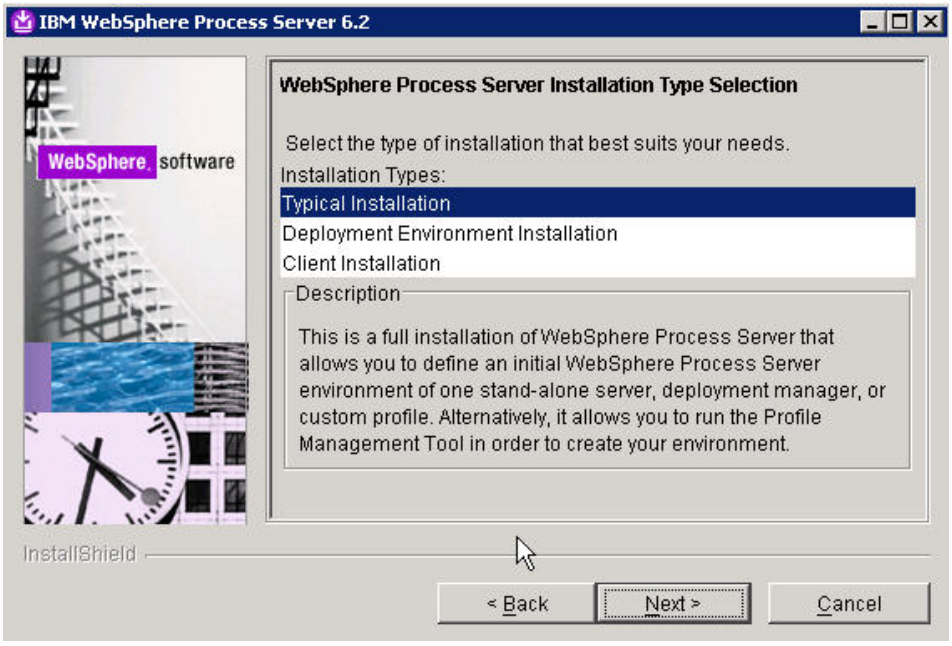
5. From the Software license agreement page, accept the terms and click **Next**.



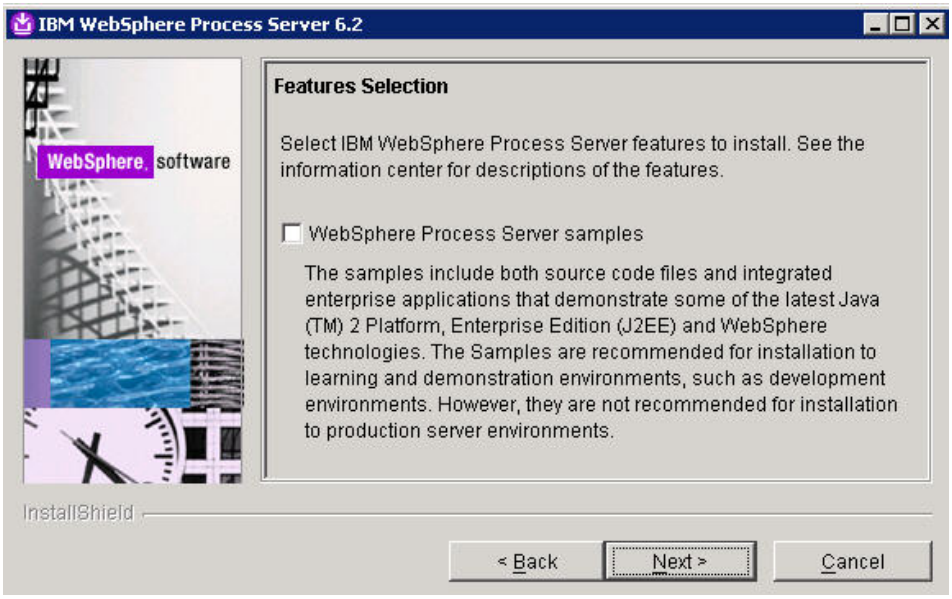
6. From the System Prerequisites check page, click **Next**.



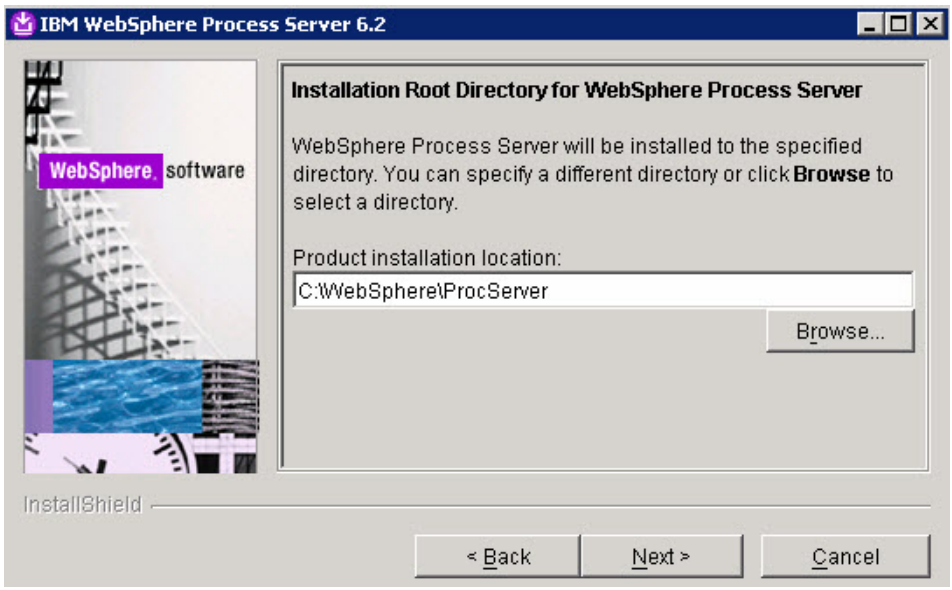
7. From the WebSphere Process Server Installation Type Selection page, select **Typical installation** and click **Next**.



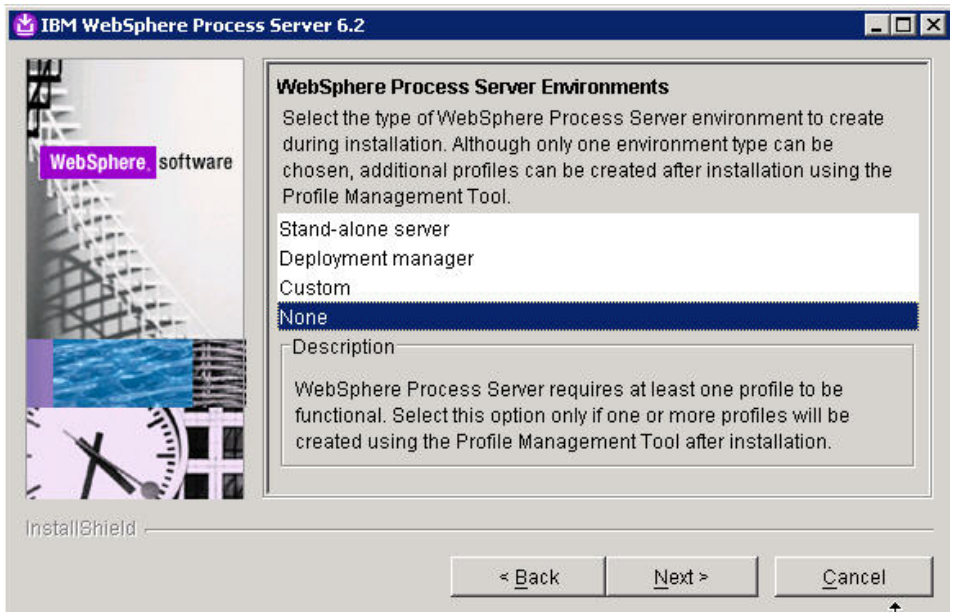
8. From the Features Selection page, click **Next**.



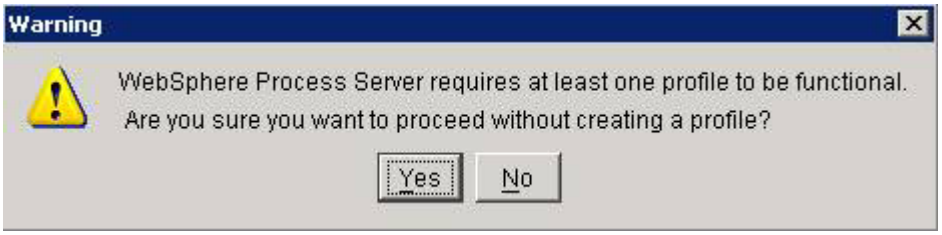
9. From the WebSphere Process Server product location directory page, accept the default directory into which WebSphere Process Server will be installed, or browse to a directory of your choice and then click **Next**.



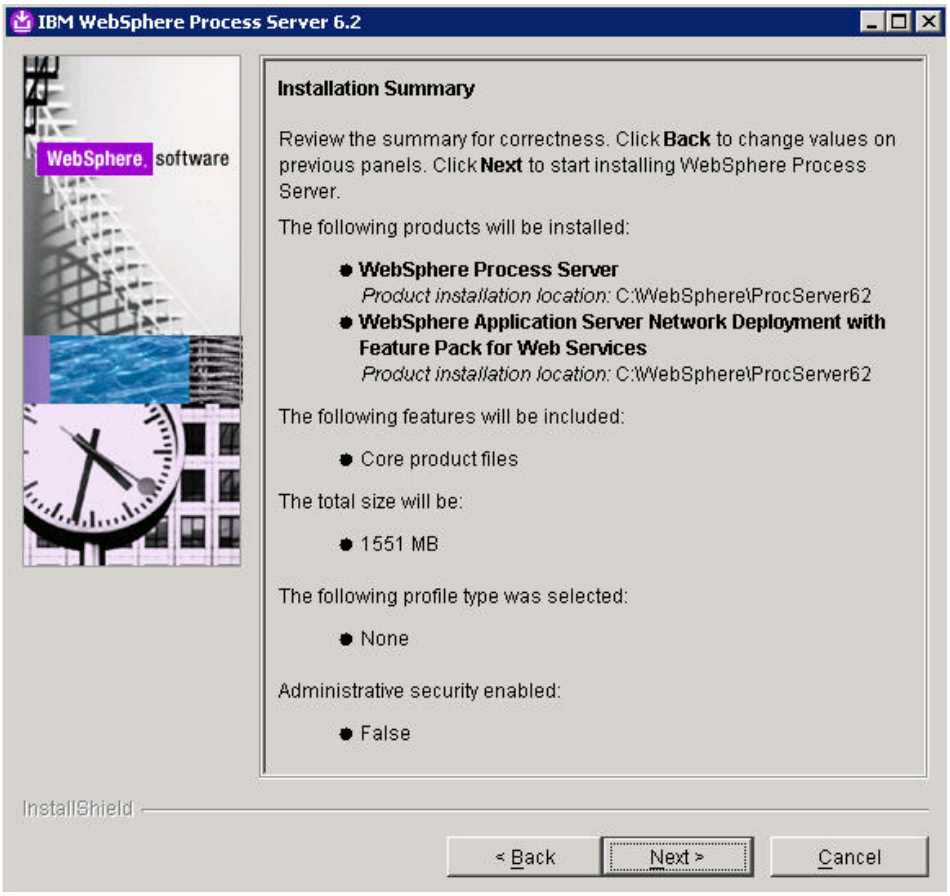
10. From the WebSphere Process Server Environments page, select **None** and click **Next**.



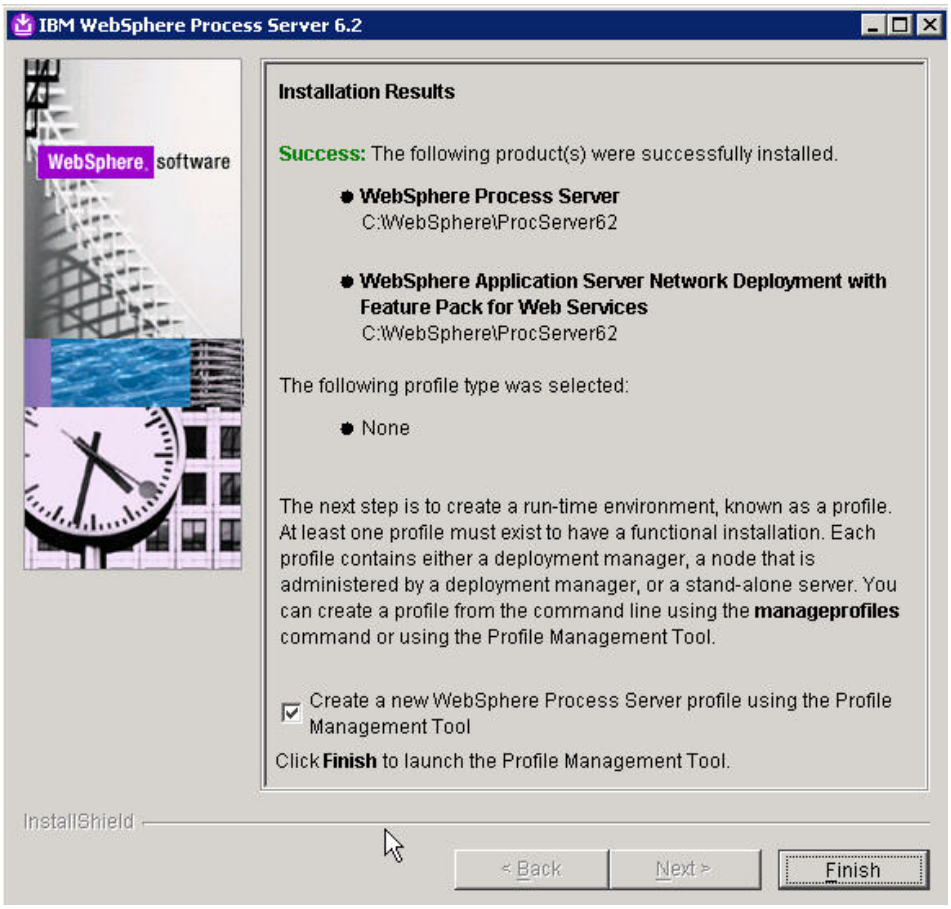
11. From Warning dialog, select **Yes**.



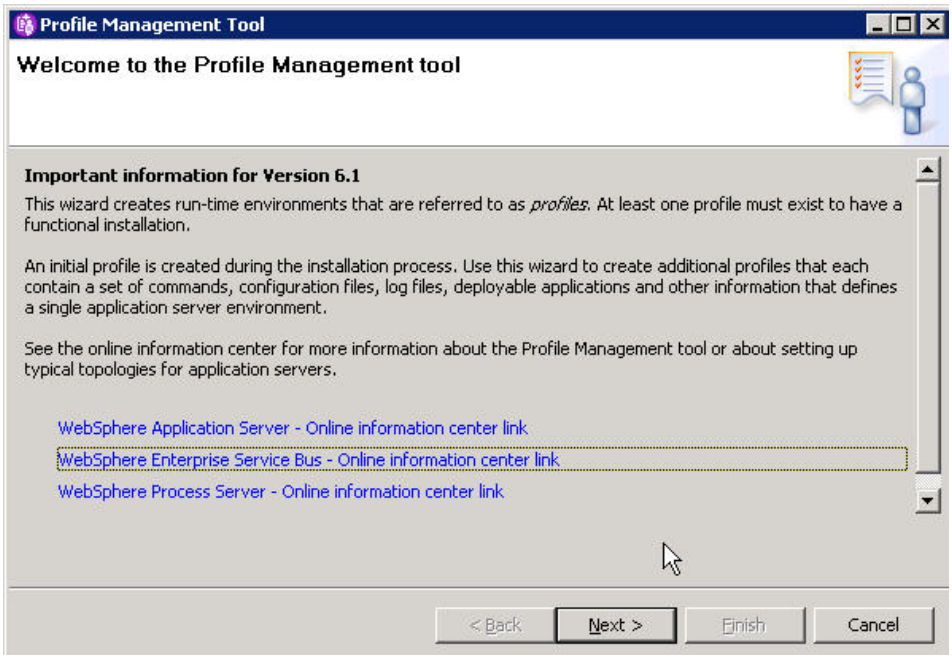
12. From the Installation Summary page review the information on what products will be installed and click **Next**.



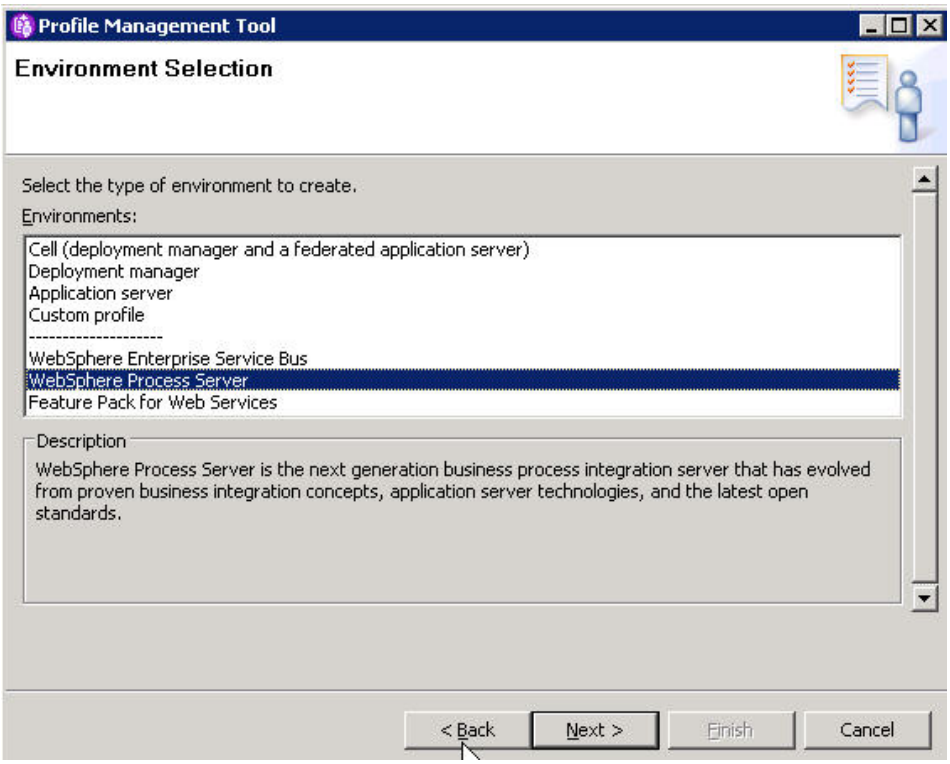
13. From the Installation Results page, make sure the option for **Creating a new WebSphere Process Server profile using the Profile Management Tool** is checked and click **Finish**.



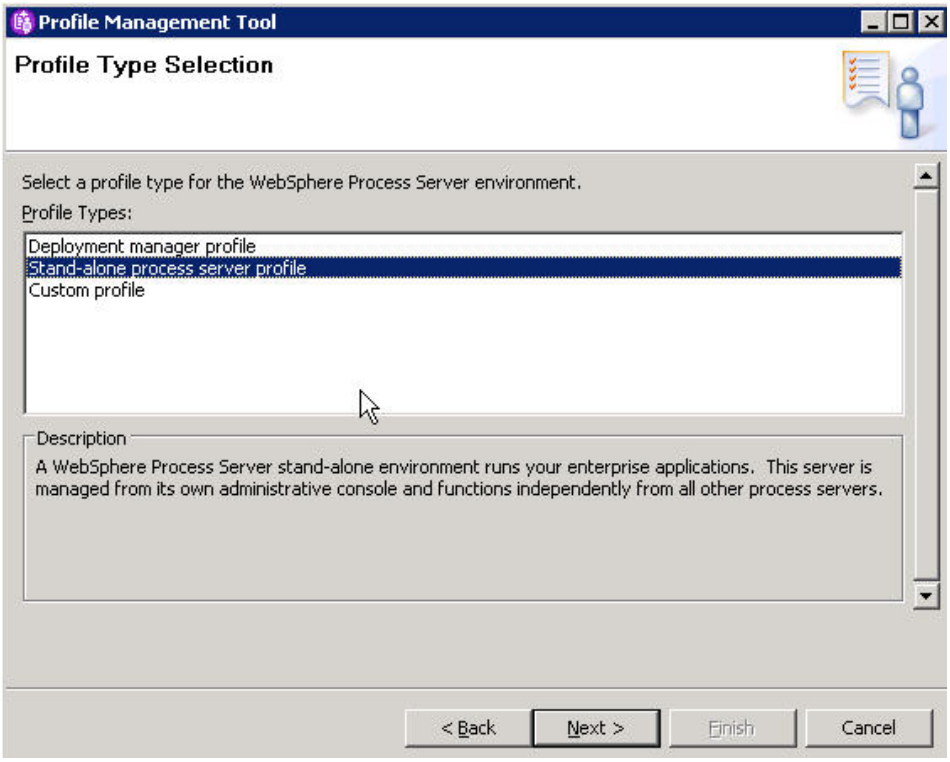
14. From the Profile Management Welcome page, read the information on Profiles and select **Next**.



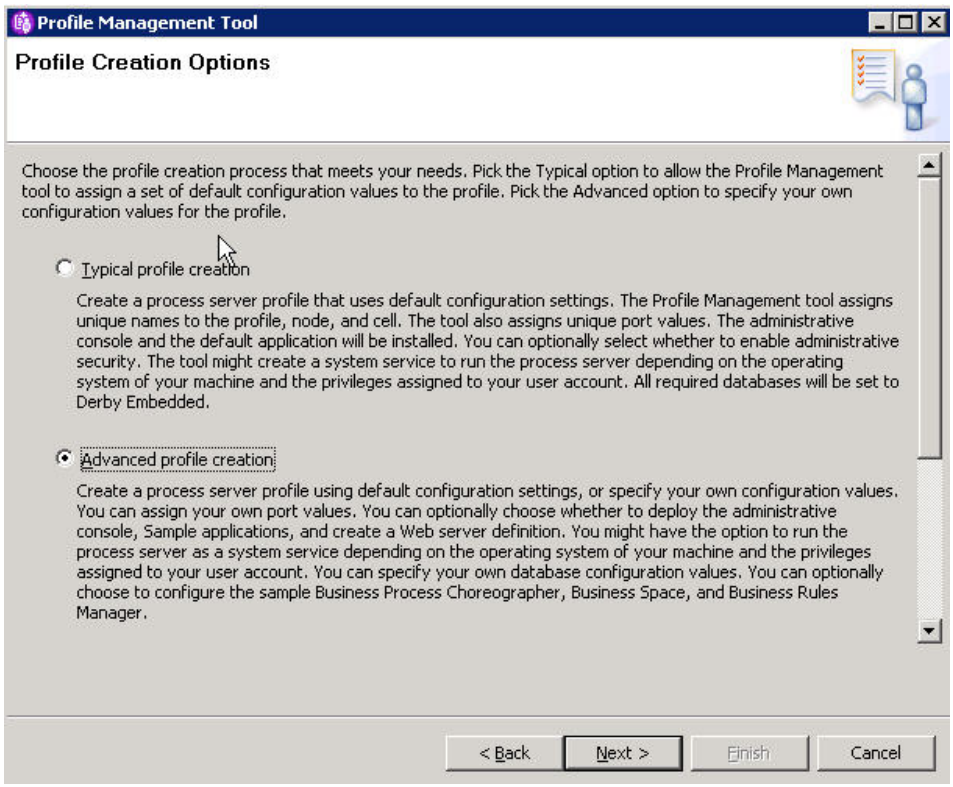
15. From the Environment Selection page, select **WebSphere Process Server** as your environment and click **Next**.



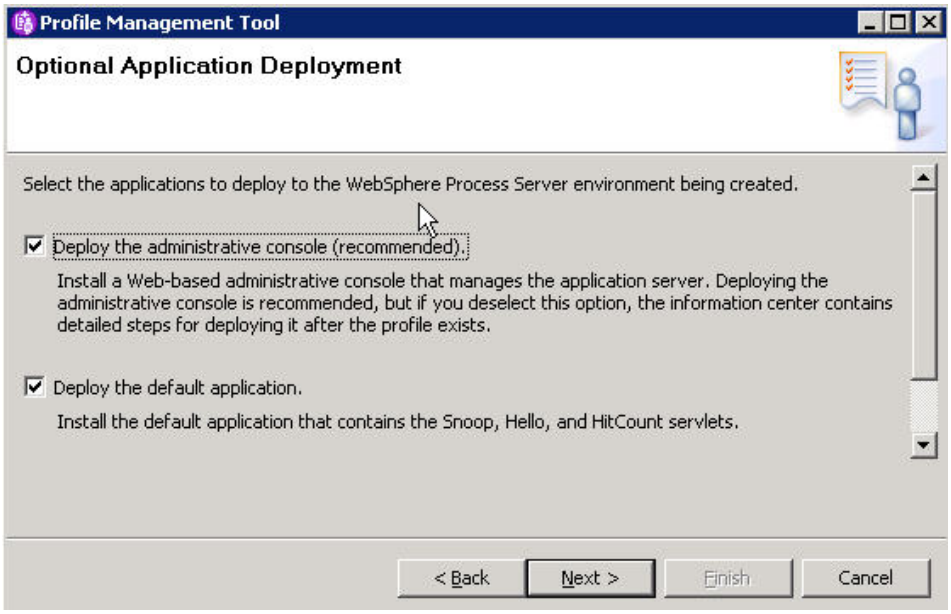
16. From the Profile Type Selection page, select **Stand-alone process server profile** and click **Next**.



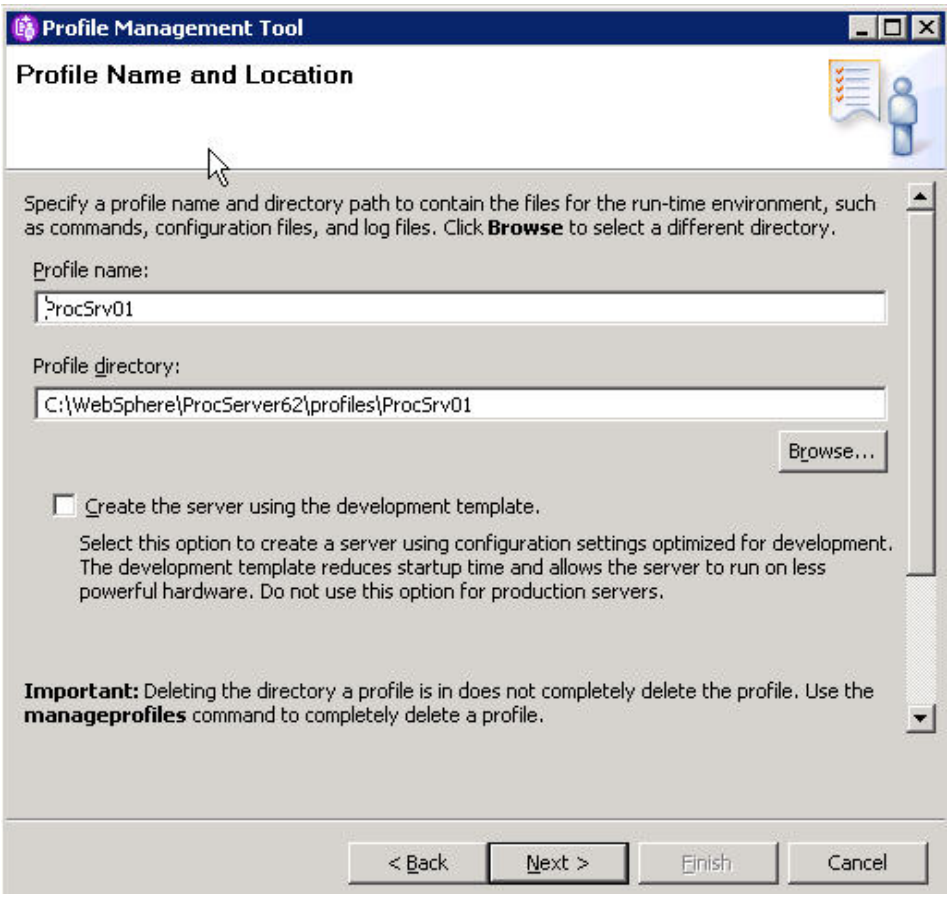
17. From the Profile Creation Options page, select the option for **Advanced profile creation** and click **Next**.



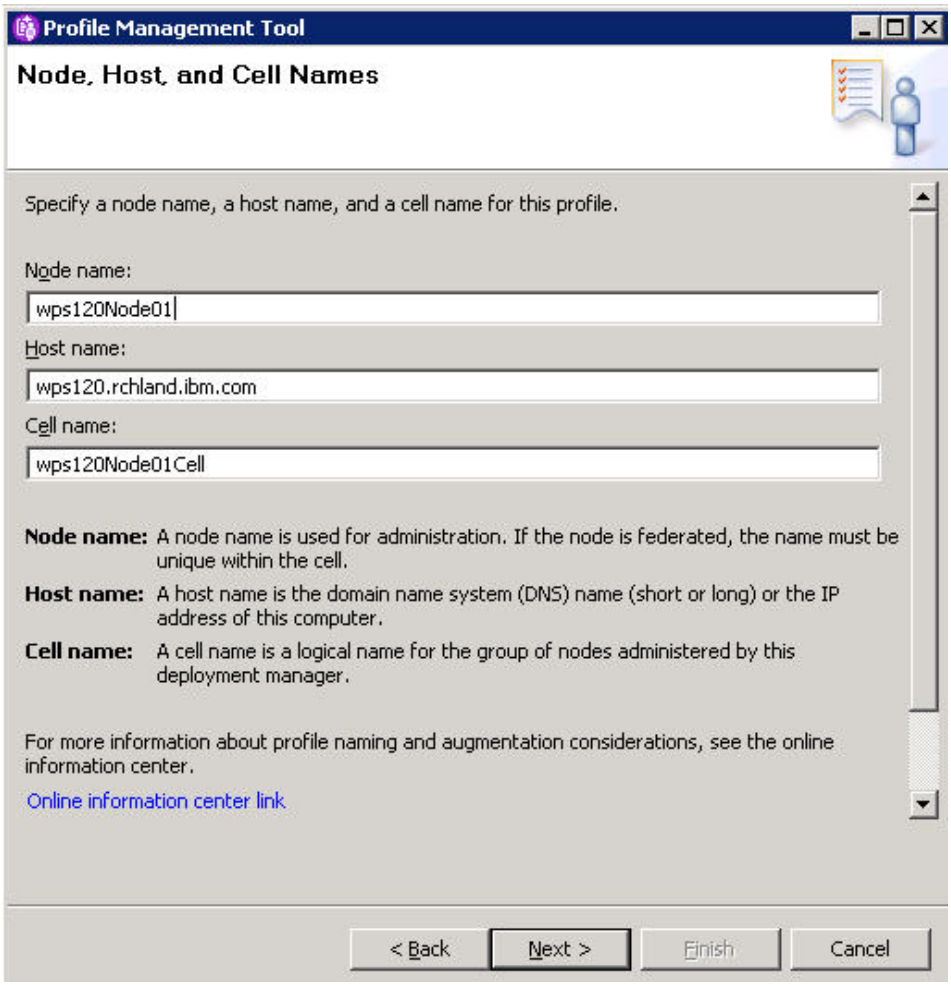
18. From the Optional Application Deployment page, check the check boxes for **Deploy the administrative console** and **Deploy the default application** and then click **Next**.



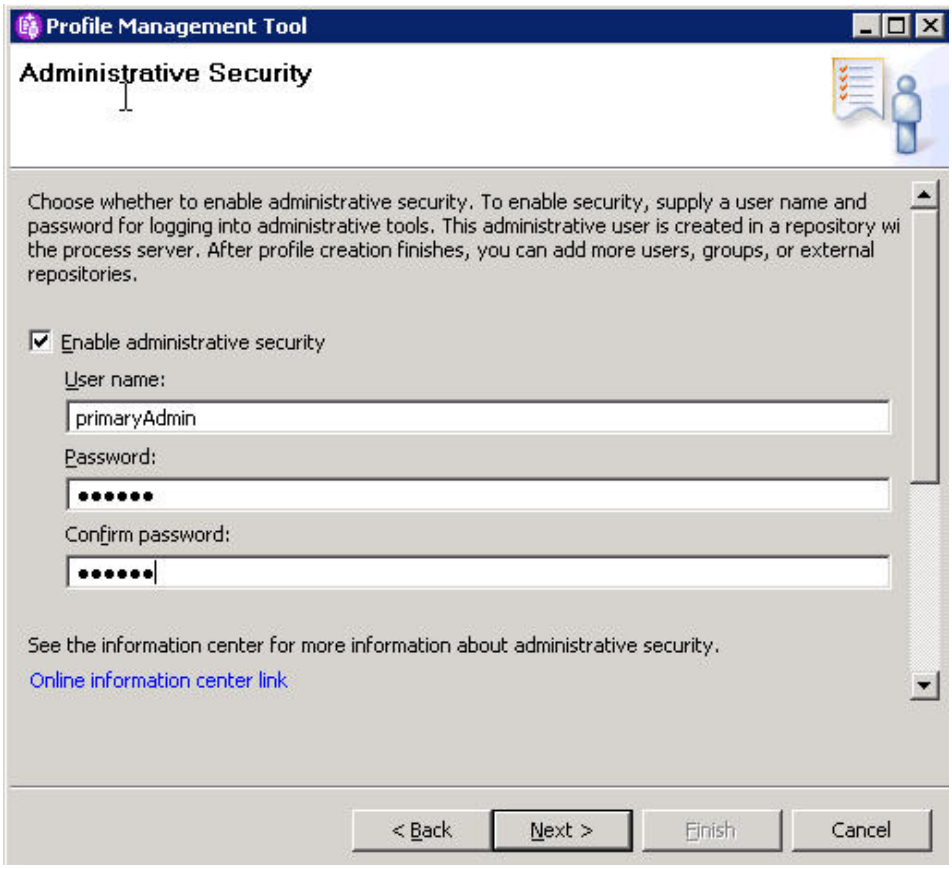
19. From the Profile Name and Location page, enter a name in the Profile name field, choose the directory into which you will install the profile and click **Next**.



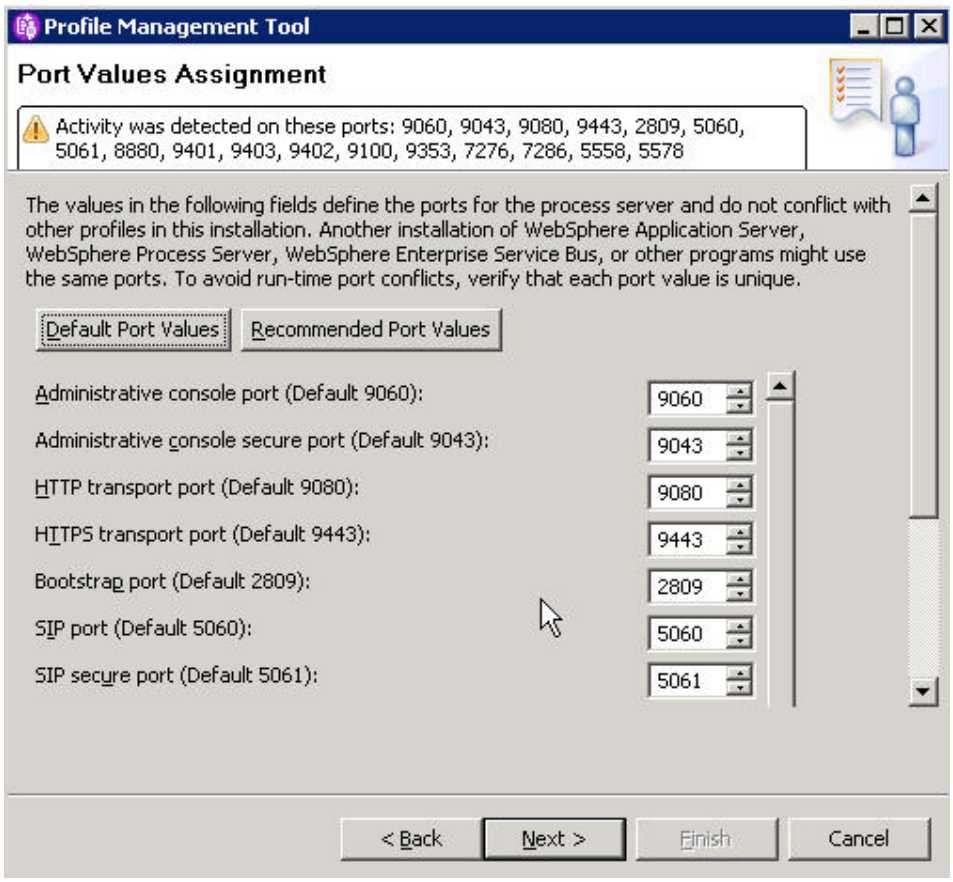
20. From the Node, Host and Cell Names page, enter name values for Node, Host and Cells and click **Next**.



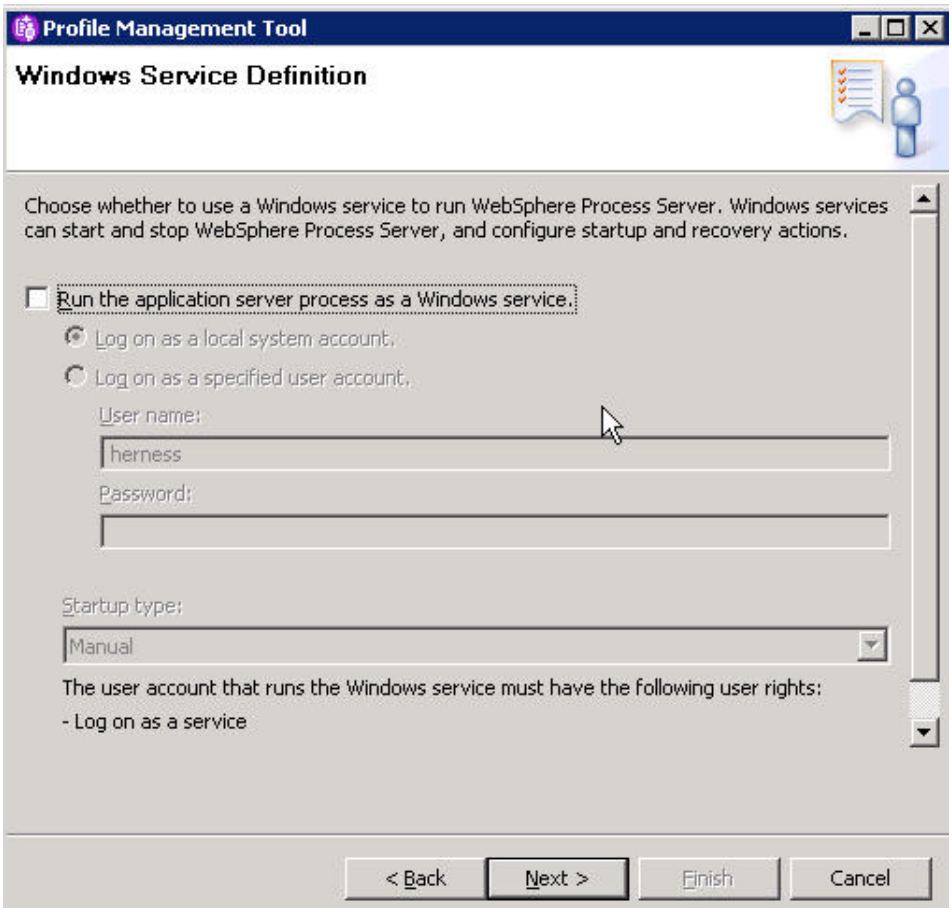
21. From the Administrative Security page, enter a User name and Password and click **Next**.



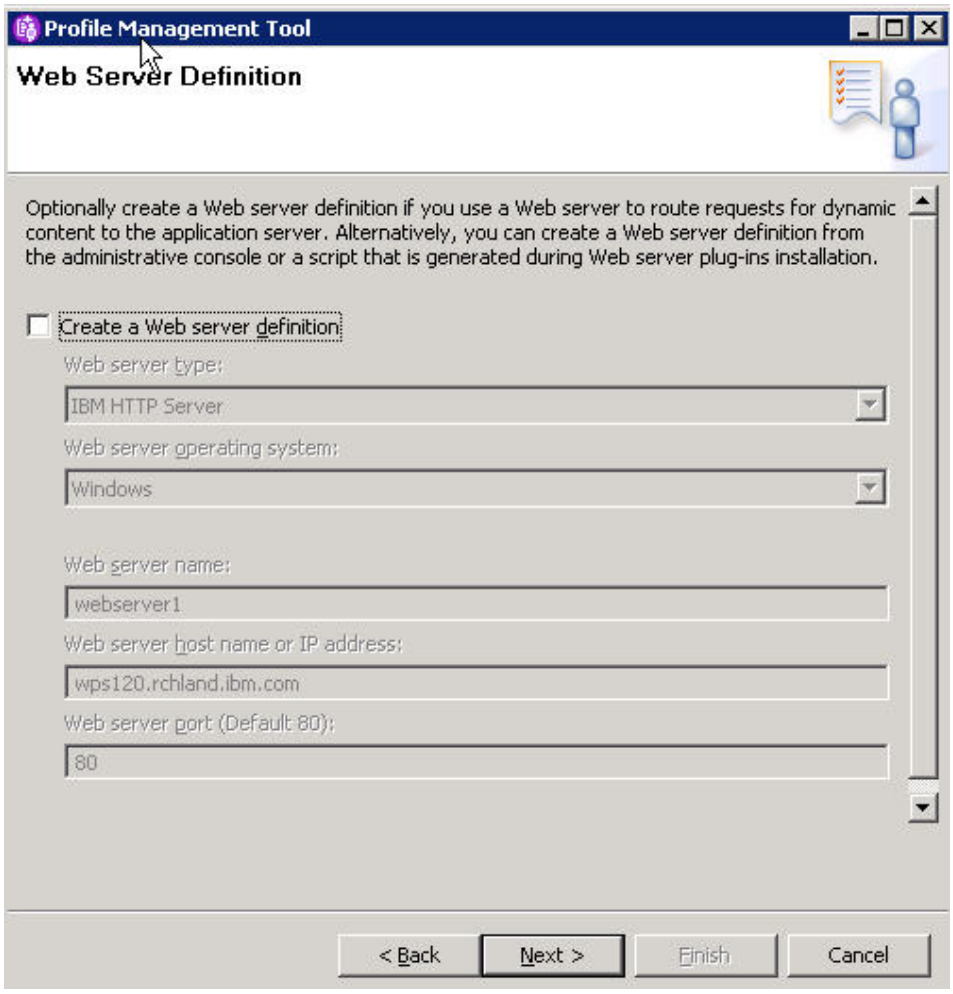
22. From the Port Values Assignment page, click **Next**.



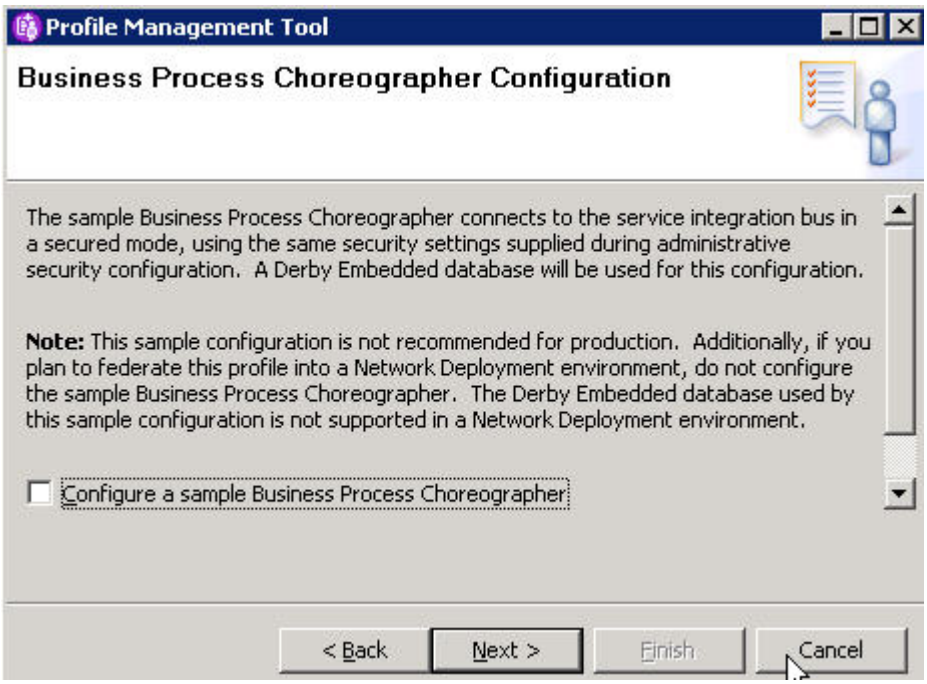
23. From the Windows Service Definition page, deselect the **Run the application server process as a Windows service** checkbox and click **Next**.



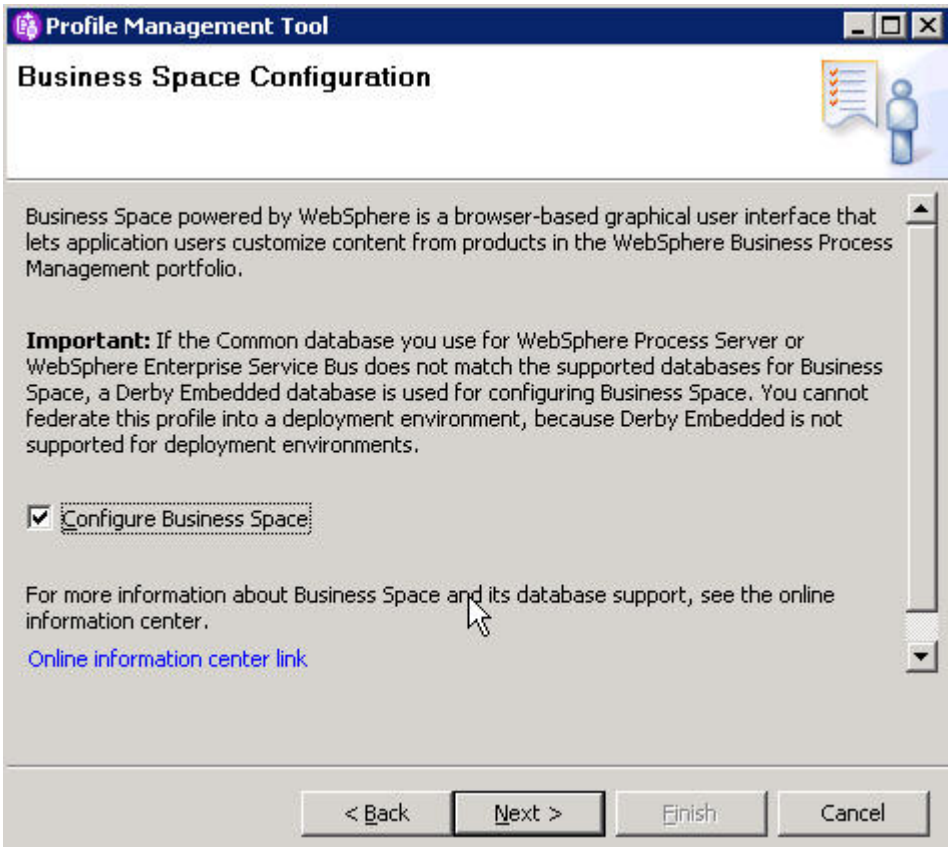
24. From the Web Server Definition page, deselect the **Create a Web server definition** checkbox and click **Next**.



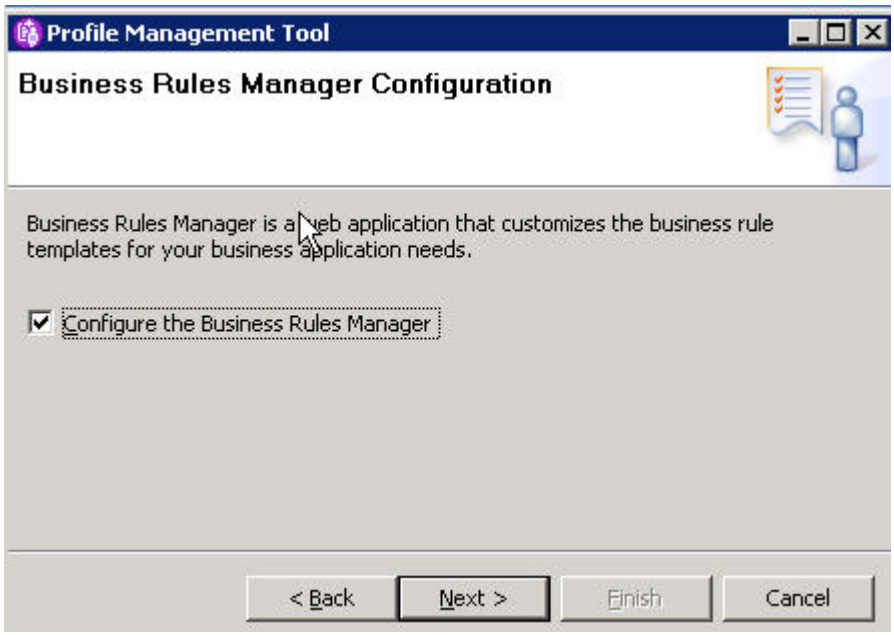
25. From the Business Process Choreographer Configuration page, uncheck **Configure a sample Business Process Choreographer** and click **Next**.



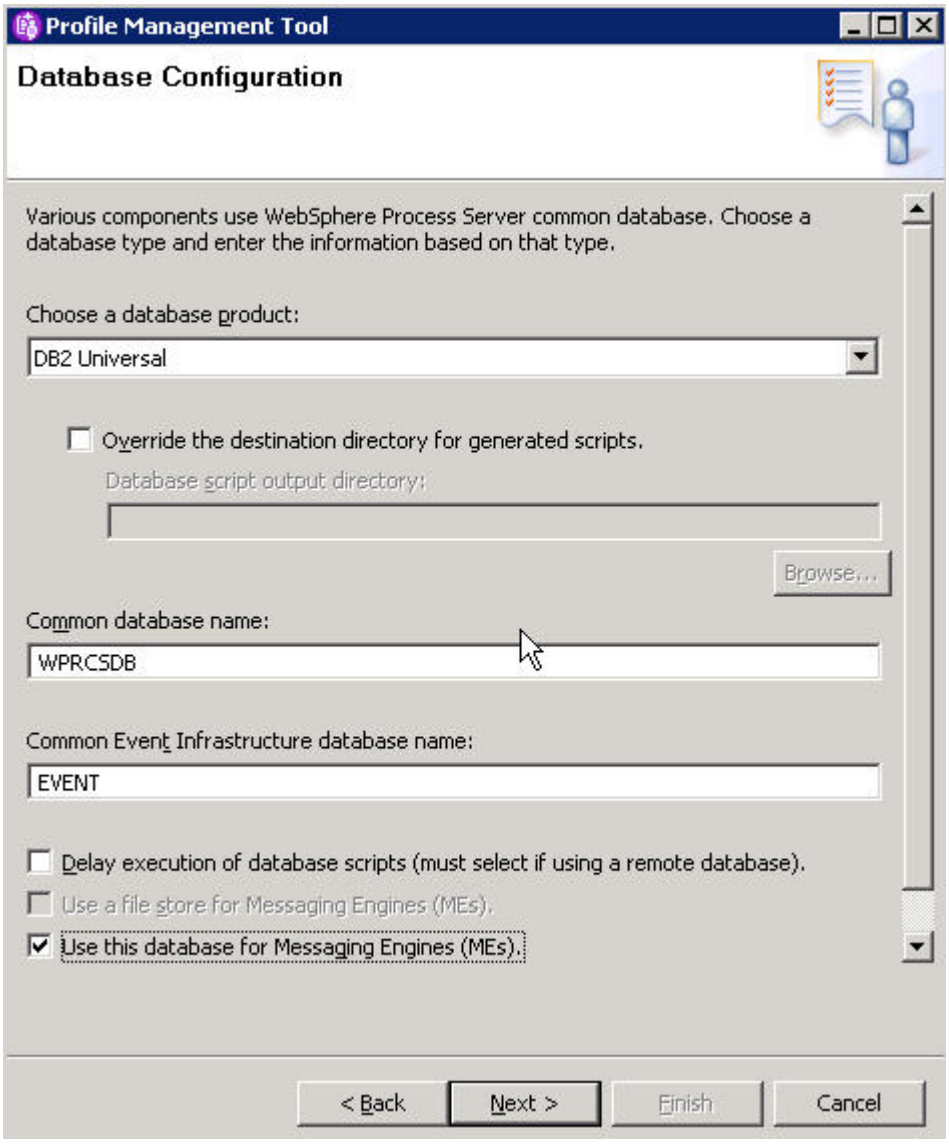
26. From the Business Space Configuration page, check Configure Business Space and select **Next**.



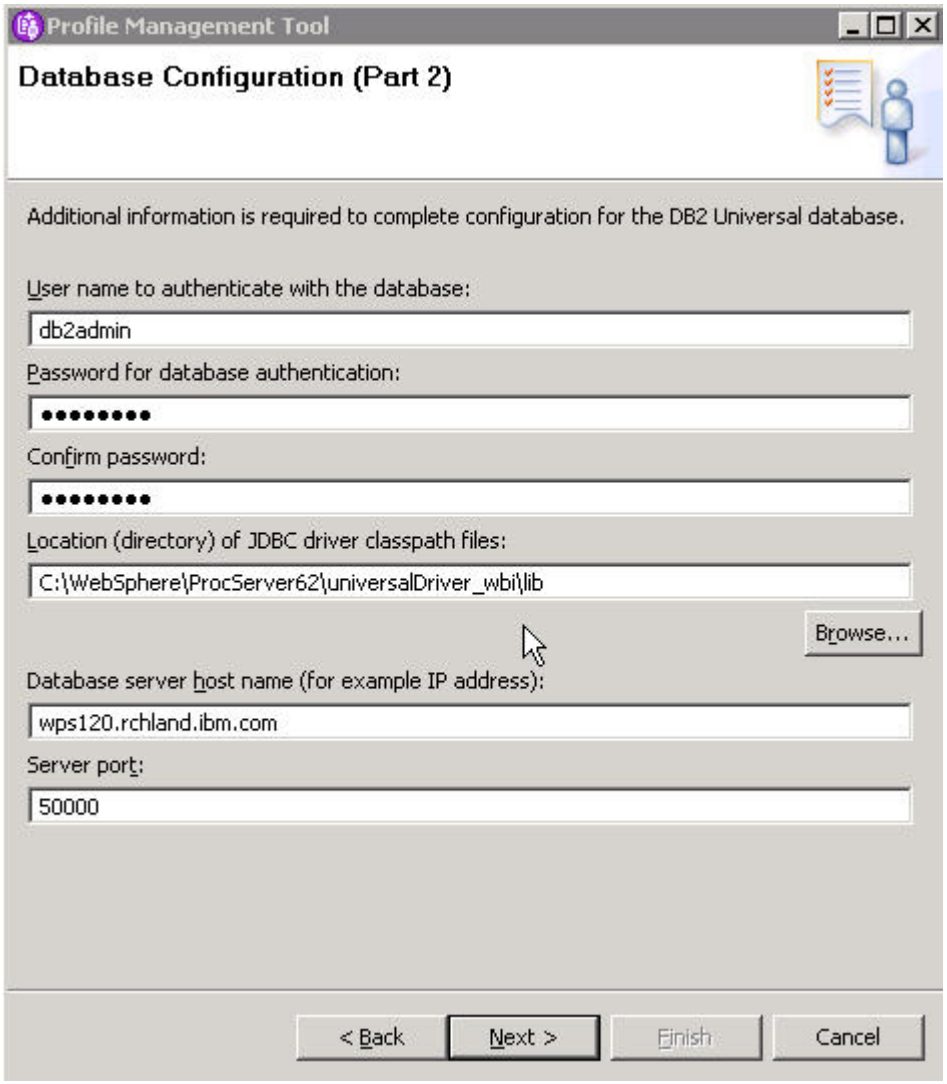
27. From the Business Rules Manager Configuration page, check **Configure the Business Rules Manager** and click**Next**.



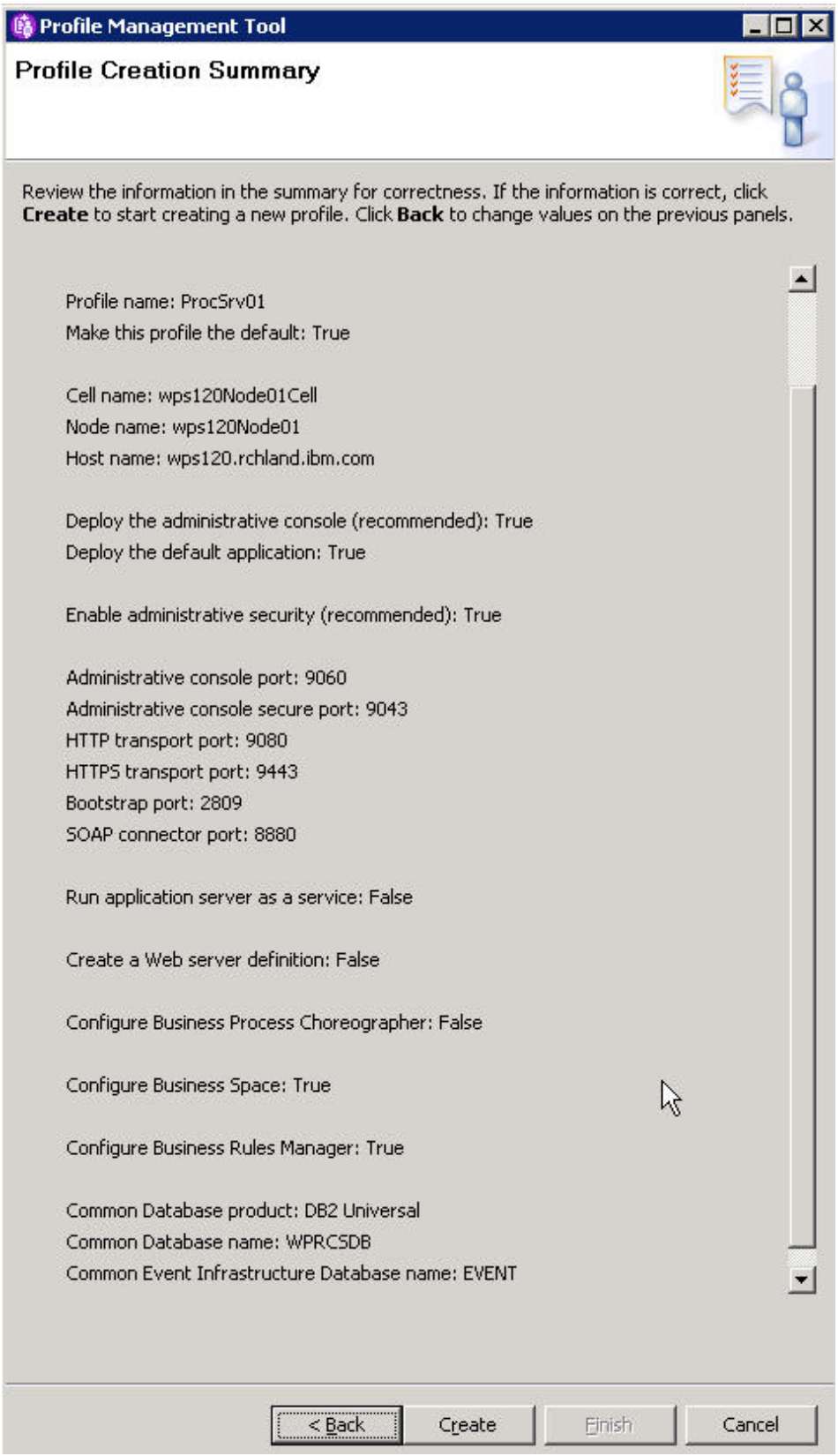
28. From the Database Configuration page, select **DB2 Universal**, check **Use this database for Messaging Engines (MEs)** and click **Next**.



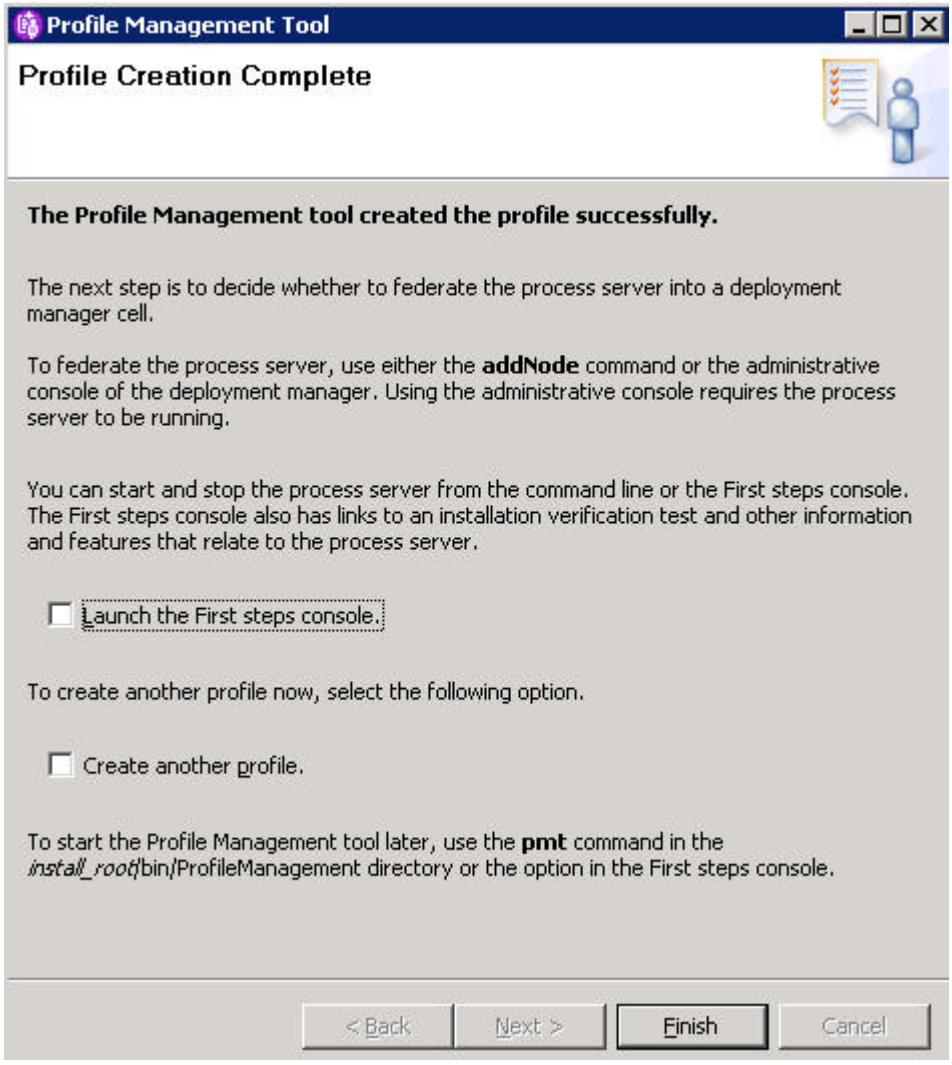
29. From the Database Configuration (Part 2) page enter a User name and Password and click **Next**.



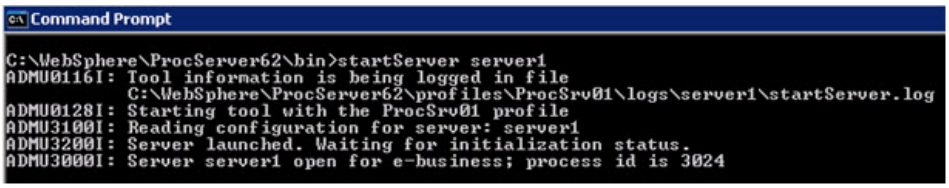
30. From the Profile Creation Summary page, click **Create**.



31. From the Profile Creation Complete page, uncheck **Launch the First steps console** and click **Finish**.



32. Start the server C:\WebSphere\ProcServer62\bin\profiles\ProcSrv01\server1\startServer.log.



You have installed WebSphere Process Server and created a stand-alone profile.

You are now ready to configure WebSphere Process Server.

Configuring WebSphere Process Server

After you have installed WebSphere Process Server, you must complete additional configuration tasks to fully prepare your runtime environment.

Configuring Business Process Choreographer:

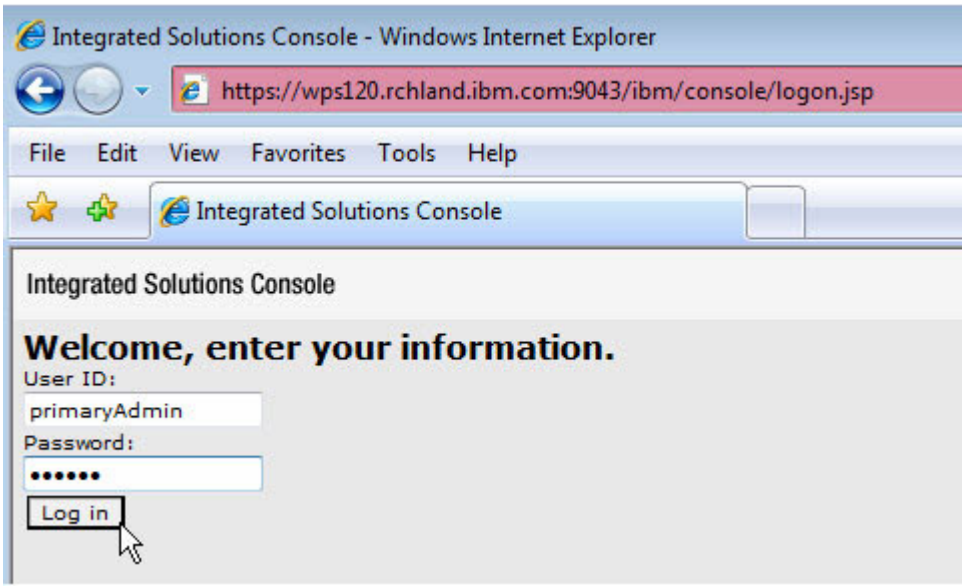
Business Process Choreographer must be configured before you install any enterprise applications that contain business processes or human tasks.

You have completed Planning to configure Business Process Choreographer as described in the WebSphere Process Server documentation.

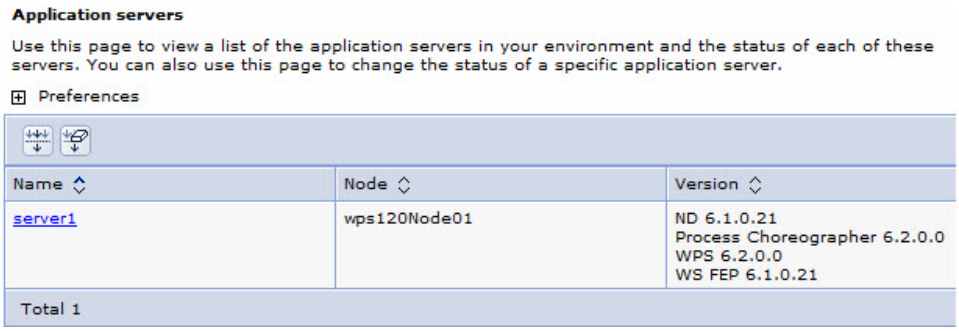
This task describes configuring Business Process Choreographer through the administrative console. You can also configure Business Process Choreographer using `bpeconfig.jacl`.

For information on `bpeconfig.jacl`, consult the WebSphere Process Server information center.

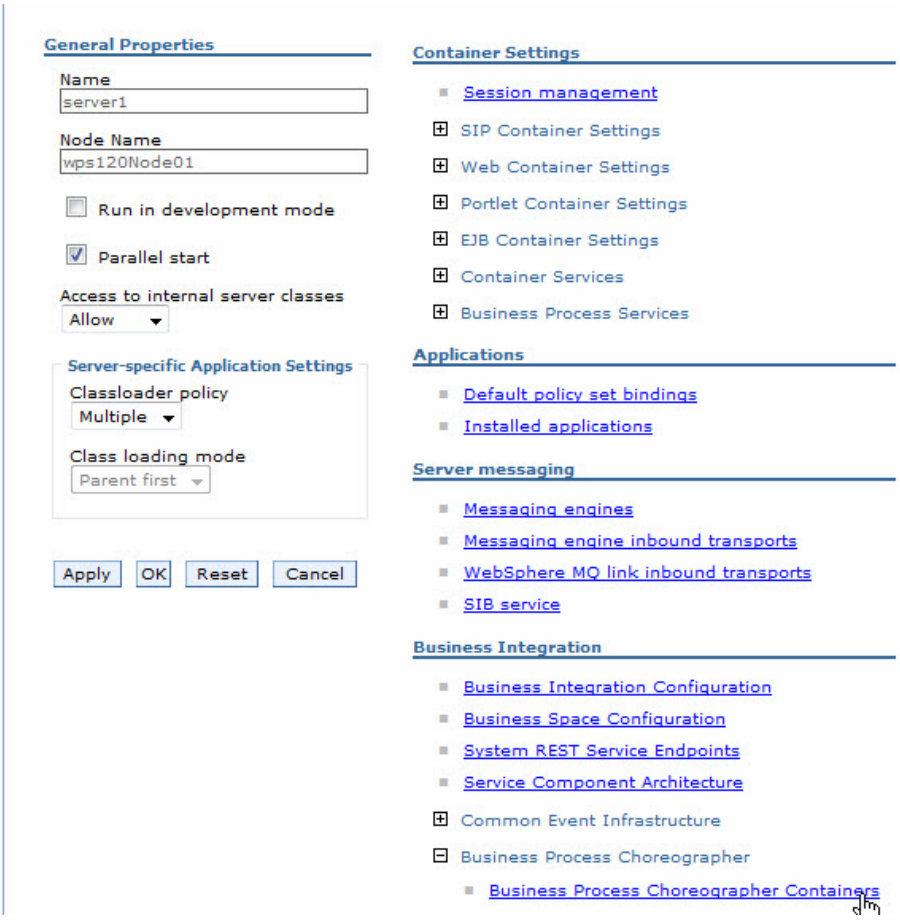
1. Login to the WebSphere administrative console.



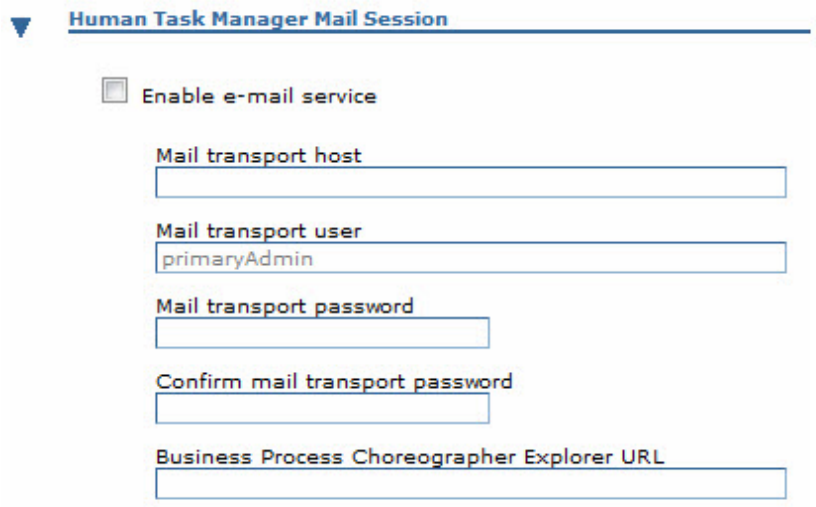
2. Expand **Servers** → **Application Servers** and click **server1**.



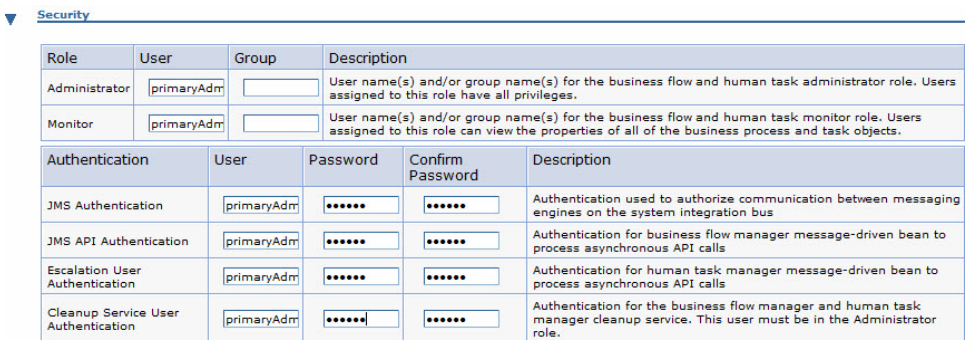
3. Expand **Business Process Choreographer** and click **Business Process Choreographer Containers**.



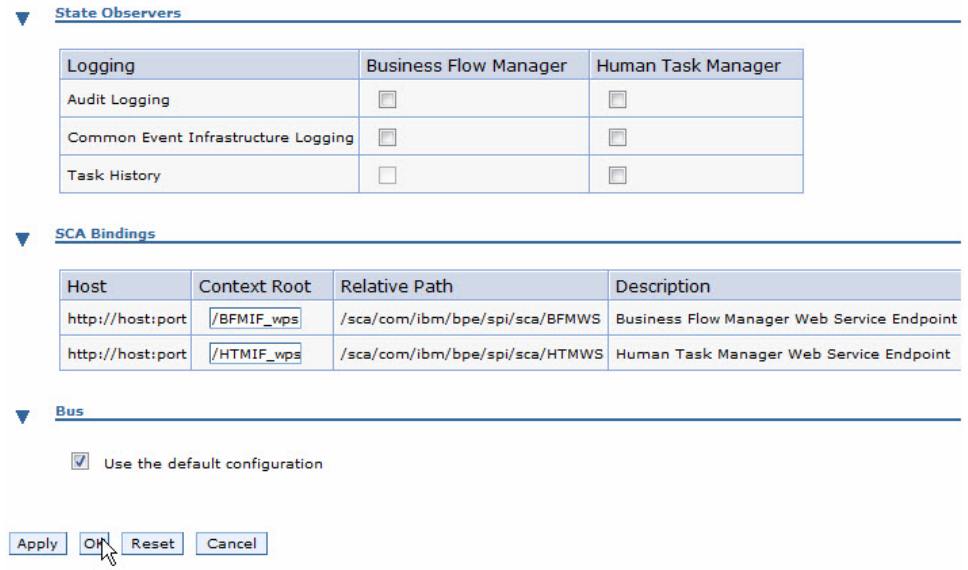
4. From the Human Task Manager Mail Session section, uncheck **Enable e-mail service**.



5. From the Security section, enter password(s), confirm Password(s).



6. Click **OK**.




```
2008-12-03 22:28:40  Beginning configuration ...

2008-12-03 22:28:51  Configuring component 'Business Process Choreographer' on
deployment target 'wps120Node01/server1'.

2008-12-03 22:28:51  Configuring component 'Business Flow Manager' on deployment
target 'wps120Node01/server1'.

2008-12-03 22:28:58  ADMA5016I: Installation of BPEContainer_wps120Node01_server1 started.

2008-12-03 22:29:01  ADMA5058I: Application and module versions are validated with
versions of deployment targets.

2008-12-03 22:29:01  WSEC0106W: Your application may have Web Services Security enabled.
If it does, you must go to the Enterprise Application Management panels to configure
the binding information for Web Services Security. The binding information for Web
Services Security is not collected during application deployment. If it is not properly
configured, your application may not start or be usable.

2008-12-03 22:29:01  ADMA5005I: The application BPEContainer_wps120Node01_server1 is
configured in the WebSphere Application Server repository.

2008-12-03 22:29:01  ADMA5053I: The library references for the installed optional
package are created.

2008-12-03 22:29:01  ADMA5005I: The application BPEContainer_wps120Node01_server1 is
configured in the WebSphere Application Server repository.
```

```
2008-12-03 22:29:01  ADMA5001I: The application binaries are saved in
C:\WebSphere\ProcServer62\profiles\ProcSrv01\wstemp\-1112840563\workspace\cells\
wps120Node01Cell\applications\BPEContainer_wps120Node01_server1.ear\
BPEContainer_wps120Node01_server1.ear

2008-12-03 22:29:01  ADMA5005I: The application BPEContainer_wps120Node01_server1 is
configured in the WebSphere Application Server repository.

2008-12-03 22:29:02  SECJ0400I: Successfuly updated the application
BPEContainer_wps120Node01_server1 with the appContextIDForSecurity information.

2008-12-03 22:29:03  ADMA5005I: The application BPEContainer_wps120Node01_server1
is configured in the WebSphere Application Server repository.

2008-12-03 22:29:03  CWSCA3013I: Resources for the SCA application
"BPEContainer_wps120Node01_server1" are being configured.

2008-12-03 22:29:03  CWSCA3023I: The EAR file "bpecontainer_wps120Node01_server1.ear"
is being loaded for the SCA module.

2008-12-03 22:29:03  CWSCA3017I: Installation task "Resource Task for SCA Messaging
Binding and EIS Binding" is running.

2008-12-03 22:29:03  CWSCA3017I: Installation task "Resource Task for SCA Messaging
Binding and JMS Binding" is running.

2008-12-03 22:29:03  CWSCA4201I: SCA module "BFMIF_wps120Node01_server1" JMS artifacts
for "com/ibm/bpe/api/sca/BFMJMS" are being installed

2008-12-03 22:29:03  CWSCA4204I: SCA module "BFMIF_wps120Node01_server1" JMS destination
for "com/ibm/bpe/api/sca/BFMJMS" with JNDI name
"BFMIF_wps120Node01_server1/com/ibm/bpe/api/sca/BFMJMS_FAILEDEVENT_D" is being installed.

2008-12-03 22:29:03  CWSCA4203I: SCA module "BFMIF_wps120Node01_server1" destination
on service integration bus "SCA.SYSTEM.wps120Node01Cell.Bus" with JNDI name
"BFMIF_wps120Node01_server1.com.ibm.bpe.api.sca.BFMJMS_FAILEDEVENT_D_SIB" and
type "javax.jms.Queue" is being installed.

2008-12-03 22:29:04  CWSCA4206I: SCA module "BFMIF_wps120Node01_server1"
JMS connection factory for "com/ibm/bpe/api/sca/BFMJMS" with JNDI name
"sca/resource/jms/SCA.JMS/SystemBus_CF" is being installed.

2008-12-03 22:29:04  CWSCA4206I: SCA module "BFMIF_wps120Node01_server1" JMS connection
factory for "com/ibm/bpe/api/sca/BFMJMS" with JNDI name
"BFMIF_wps120Node01_server1/com/ibm/bpe/api/sca/BFMJMS_FAILEDEVENT_REPLAY_CF" is being install

2008-12-03 22:29:04  CWSCA3017I: Installation task "SIBus Destination Resource
Task for SCA Asynchronous Invocations" is running.

2008-12-03 22:29:05  CWSCA3017I: Installation task "EJB NamespaceBinding Resource
Task for SCAImportBinding" is running.

2008-12-03 22:29:05  CWSCA3017I: Installation task "SIBus Destination Resource
Task for SCA SOAP/JMS Invocations" is running.

2008-12-03 22:29:05  CWSCA3017I: Installation task "PolicySet Task for
JaxWsImportBinding and JaxWsExportBinding" is running.

2008-12-03 22:29:05  CWSCA3014I: Resources for the SCA application
"BPEContainer_wps120Node01_server1" have been configured successfully.

2008-12-03 22:29:05  ADMA5011I: The cleanup of the temp directory for application
BPEContainer_wps120Node01_server1 is complete.

2008-12-03 22:29:05  ADMA5013I: Application BPEContainer_wps120Node01_server1
installed successfully.
```

```
2008-12-03 22:29:06  Creating JMS resources for component 'Business Flow Manager'.

2008-12-03 22:29:10  Configuring component 'Human Task Manager' on deployment
target 'wps120Node01/server1'.

2008-12-03 22:29:14  ADMA5016I: Installation of TaskContainer_wps120Node01_server1 started.

2008-12-03 22:29:15  ADMA5058I: Application and module versions are validated with
versions of deployment targets.

2008-12-03 22:29:15  WSEC0106W: Your application may have Web Services Security enabled.
If it does, you must go to the Enterprise Application Management panels to configure
the binding information for Web Services Security. The binding information for Web
Services Security is not collected during application deployment. If it is not
properly configured, your application may not start or be usable.

2008-12-03 22:29:15  ADMA5005I: The application TaskContainer_wps120Node01_server1
is configured in the WebSphere Application Server repository.

2008-12-03 22:29:15  ADMA5053I: The library references for the installed optional
package are created.

2008-12-03 22:29:16  ADMA5005I: The application TaskContainer_wps120Node01_server1
is configured in the WebSphere Application Server repository.

2008-12-03 22:29:16  ADMA5001I: The application binaries are saved in
C:\WebSphere\ProcServer62\profiles\ProcSrv01\wstemp\-1112840563\workspace\cells\
wps120Node01Cell\applications\TaskContainer_wps120Node01_server1.ear\
TaskContainer_wps120Node01_server1.ear

2008-12-03 22:29:16  ADMA5005I: The application TaskContainer_wps120Node01_server1
is configured in the WebSphere Application Server repository.

2008-12-03 22:29:16  SECJ0400I: Successfuly updated the application
TaskContainer_wps120Node01_server1 with the appContextIDForSecurity information.

2008-12-03 22:29:17  ADMA5005I: The application TaskContainer_wps120Node01_server1
is configured in the WebSphere Application Server repository.

2008-12-03 22:29:17  CWSCA3013I: Resources for the SCA application
"TaskContainer_wps120Node01_server1" are being configured.

2008-12-03 22:29:17  CWSCA3023I: The EAR file "task_wps120Node01_server1.ear"
is being loaded for the SCA module.

2008-12-03 22:29:17  CWSCA3017I: Installation task "Resource Task for SCA
Messaging Binding and EIS Binding" is running.

2008-12-03 22:29:17  CWSCA3017I: Installation task "Resource Task for SCA
Messaging Binding and JMS Binding" is running.

2008-12-03 22:29:17  CWSCA3017I: Installation task "SIBus Destination Resource
Task for SCA Asynchronous Invocations" is running.

2008-12-03 22:29:17  CWSCA3017I: Installation task "EJB NamespaceBinding Resource
Task for SCAImportBinding" is running.

2008-12-03 22:29:17  CWSCA3017I: Installation task "SIBus Destination Resource
Task for SCA SOAP/JMS Invocations" is running.

2008-12-03 22:29:17  CWSCA3017I: Installation task "PolicySet Task for
JaxWsImportBinding and JaxWsExportBinding" is running.

2008-12-03 22:29:17  CWSCA3014I: Resources for the SCA application
"TaskContainer_wps120Node01_server1" have been configured successfully.

2008-12-03 22:29:18  ADMA5011I: The cleanup of the temp directory for application
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```
TaskContainer_wps120Node01_server1 is complete.

2008-12-03 22:29:18  ADMA5013I: Application TaskContainer_wps120Node01_server1
installed successfully.

2008-12-03 22:29:18  Creating JMS resources for component 'Human Task Manager'.

2008-12-03 22:29:20  ADMA5016I: Installation of BusinessCalendar started.

2008-12-03 22:29:20  ADMA5005I: The application BusinessCalendar is configured
in the WebSphere Application Server repository.

2008-12-03 22:29:20  ADMA5011I: The cleanup of the temp directory for application
BusinessCalendar is complete.

2008-12-03 22:29:20  ADMA5013I: Application BusinessCalendar installed successfully.

2008-12-03 22:29:21  ADMA5016I: Installation of
HTM_PredefinedTasks_V620_wps120Node01_server1 started.

2008-12-03 22:29:21  ADMA5058I: Application and module versions are
validated with versions of deployment targets.

2008-12-03 22:29:21  ADMA5005I: The application
HTM_PredefinedTasks_V620_wps120Node01_server1 is configured in the
WebSphere Application Server repository.

2008-12-03 22:29:22  CWTCO0008I: The human tasks in application
HTM_PredefinedTasks_V620_wps120Node01_server1 have been successfully
configured in the WebSphere configuration repository.

2008-12-03 22:29:22  ADMA5053I: The library references for the installed
optional package are created.

2008-12-03 22:29:22  ADMA5005I: The application
HTM_PredefinedTasks_V620_wps120Node01_server1 is configured in the
WebSphere Application Server repository.

2008-12-03 22:29:22  ADMA5001I: The application binaries are saved in
C:\WebSphere\ProcServer62\profiles\ProcSrv01\wstemp\-1112840563\workspace\cells
\wps120Node01Cell\applications\HTM_PredefinedTasks_V620_wps120Node01_server1.ear
\HTM_PredefinedTasks_V620_wps120Node01_server1.ear

2008-12-03 22:29:22  ADMA5005I:
The application HTM_PredefinedTasks_V620_wps120Node01_server1 is configured in
the WebSphere Application Server repository.

2008-12-03 22:29:22  SECJ0400I: Successfuly updated the application
HTM_PredefinedTasks_V620_wps120Node01_server1 with the appContextIDForSecurity information.

2008-12-03 22:29:22  ADMA5005I: The application
HTM_PredefinedTasks_V620_wps120Node01_server1 is configured in the
WebSphere Application Server repository.

2008-12-03 22:29:22  CWSCA3013I: Resources for the SCA application
"HTM_PredefinedTasks_V620_wps120Node01_server1" are being configured.

2008-12-03 22:29:22  CWSCA3023I: The EAR file
"HTM_PredefinedTasks_V620_wps120Node01_server1.ear" is being loaded for the SCA module.

2008-12-03 22:29:22  CWSCA3017I: Installation task "Resource Task for SCA Messaging
Binding and EIS Binding" is running.

2008-12-03 22:29:22  CWSCA3017I: Installation task "Resource Task for
SCA Messaging Binding and JMS Binding" is running.

2008-12-03 22:29:22  CWSCA3017I: Installation task "SIBus Destination
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Resource Task for SCA Asynchronous Invocations" is running.

2008-12-03 22:29:23  CWSCA3017I: Installation task "EJB NamespaceBinding
Resource Task for SCAImportBinding" is running.

2008-12-03 22:29:23  CWSCA3017I: Installation task "SIBus Destination
Resource Task for SCA SOAP/JMS Invocations" is running.

2008-12-03 22:29:23  CWSCA3017I: Installation task "PolicySet Task for
JaxWsImportBinding and JaxWsExportBinding" is running.

2008-12-03 22:29:23  CWSCA3014I: Resources for the SCA application
"HTM_PredefinedTasks_V620_wps120Node01_server1" have been configured successfully.

2008-12-03 22:29:23  ADMA5011I: The cleanup of the temp directory for application
HTM_PredefinedTasks_V620_wps120Node01_server1 is complete.

2008-12-03 22:29:23  ADMA5013I: Application HTM_PredefinedTasks_V620_wps120Node01_server1
installed successfully.

2008-12-03 22:29:24  ADMA5016I: Installation of
HTM_PredefinedTaskMsg_V620_wps120Node01_server1 started.

2008-12-03 22:29:24  ADMA5058I: Application and module versions are validated
with versions of deployment targets.

2008-12-03 22:29:24  ADMA5005I: The application
HTM_PredefinedTaskMsg_V620_wps120Node01_server1 is configured in the
WebSphere Application Server repository.

2008-12-03 22:29:24  CWTCO0008I: The human tasks in application
HTM_PredefinedTaskMsg_V620_wps120Node01_server1 have been successfully
configured in the WebSphere configuration repository.

2008-12-03 22:29:24  ADMA5053I: The library references for the installed
optional package are created.

2008-12-03 22:29:24  ADMA5005I: The application
HTM_PredefinedTaskMsg_V620_wps120Node01_server1 is configured in the
WebSphere Application Server repository.

2008-12-03 22:29:24  ADMA5001I: The application binaries are saved in
C:\WebSphere\ProcServer62\profiles\ProcSrv01\wstemp\-1112840563\workspace\cells\
wps120Node01Cell\applications\HTM_PredefinedTaskMsg_V620_wps120Node01_server1.ear\
HTM_PredefinedTaskMsg_V620_wps120Node01_server1.ear

2008-12-03 22:29:24  ADMA5005I: The application
HTM_PredefinedTaskMsg_V620_wps120Node01_server1 is configured in the
WebSphere Application Server repository.

2008-12-03 22:29:24  SECJ0400I: Successfuly updated the application
HTM_PredefinedTaskMsg_V620_wps120Node01_server1 with the appContextIDForSecurity information.

2008-12-03 22:29:24  ADMA5005I: The application
HTM_PredefinedTaskMsg_V620_wps120Node01_server1 is configured in the
WebSphere Application Server repository.

2008-12-03 22:29:24  CWSCA3013I: Resources for the SCA application
"HTM_PredefinedTaskMsg_V620_wps120Node01_server1" are being configured.

2008-12-03 22:29:24  CWSCA3023I: The EAR file
"HTM_PredefinedTaskMsg_V620_wps120Node01_server1.ear" is being loaded for the SCA module.

2008-12-03 22:29:25  CWSCA3017I: Installation task
"Resource Task for SCA Messaging Binding and EIS Binding" is running.

2008-12-03 22:29:25  CWSCA3017I: Installation task
```

```
"Resource Task for SCA Messaging Binding and JMS Binding" is running.

2008-12-03 22:29:25  CWSCA3017I: Installation task "SIBus Destination
Resource Task for SCA Asynchronous Invocations" is running.

2008-12-03 22:29:25  CWSCA3017I: Installation task "EJB NamespaceBinding
Resource Task for SCAImportBinding" is running.

2008-12-03 22:29:25  CWSCA3017I: Installation task "SIBus Destination
Resource Task for SCA SOAP/JMS Invocations" is running.

2008-12-03 22:29:25  CWSCA3017I: Installation task "PolicySet Task for
JaxWsImportBinding and JaxWsExportBinding" is running.

2008-12-03 22:29:25  CWSCA3014I: Resources for the SCA application
"HTM_PredefinedTaskMsg_V620_wps120Node01_server1" have been configured successfully.

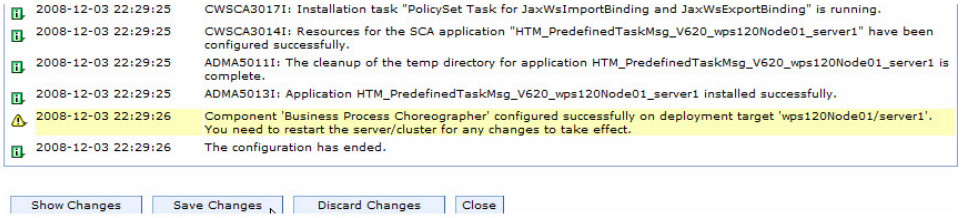
2008-12-03 22:29:25  ADMA5011I: The cleanup of the temp directory for
application HTM_PredefinedTaskMsg_V620_wps120Node01_server1 is complete.

2008-12-03 22:29:25  ADMA5013I: Application
HTM_PredefinedTaskMsg_V620_wps120Node01_server1 installed successfully.

2008-12-03 22:29:26  Component 'Business Process Choreographer'
configured successfully on deployment target 'wps120Node01/server1'.
You need to restart the server/cluster for any changes to take effect.

2008-12-03 22:29:26  The configuration has ended.
```

7. Click **Save Changes**.



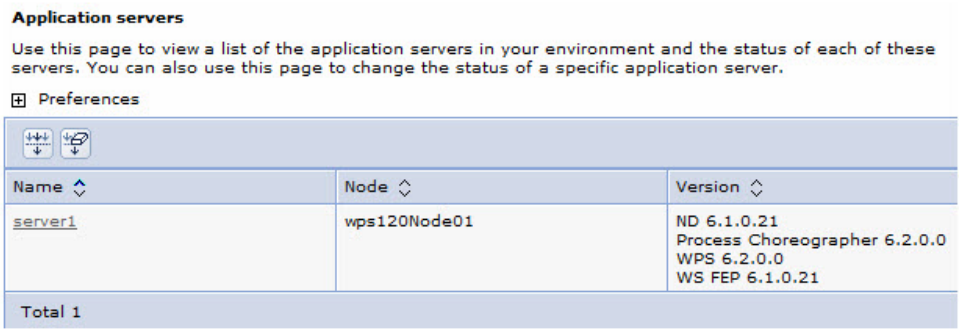
Now you can Configure Business Process Choreographer explorer.

Configure Business Process Choreographer Explorer:

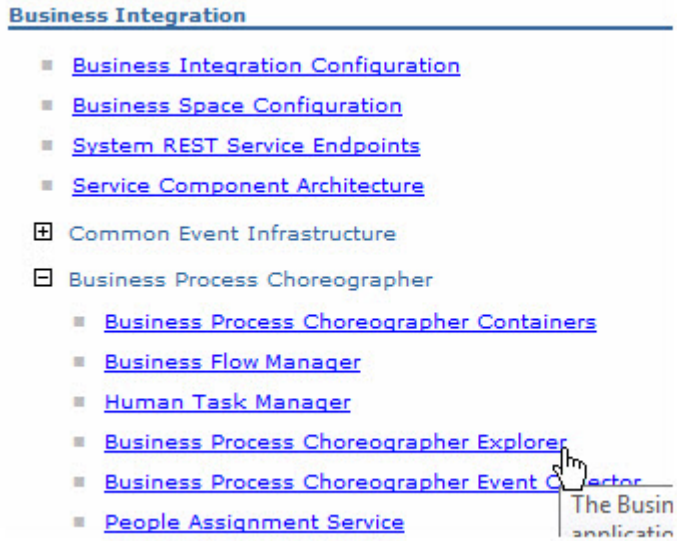
Business Process Choreographer Explorer is a Web application that implements a generic Web user interface for interacting with business processes and human tasks. Use the administrative console to configure Business Process Choreographer Explorer.

This procedure describes how to configure Business Process Choreographer Explorer.

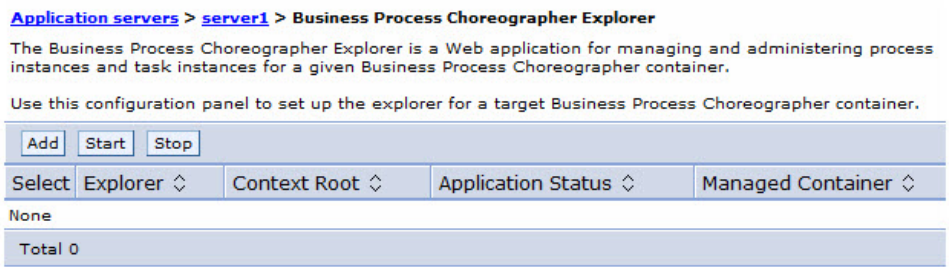
1. From the administrative console, expand **Servers** → **Application servers** and click**server1**.



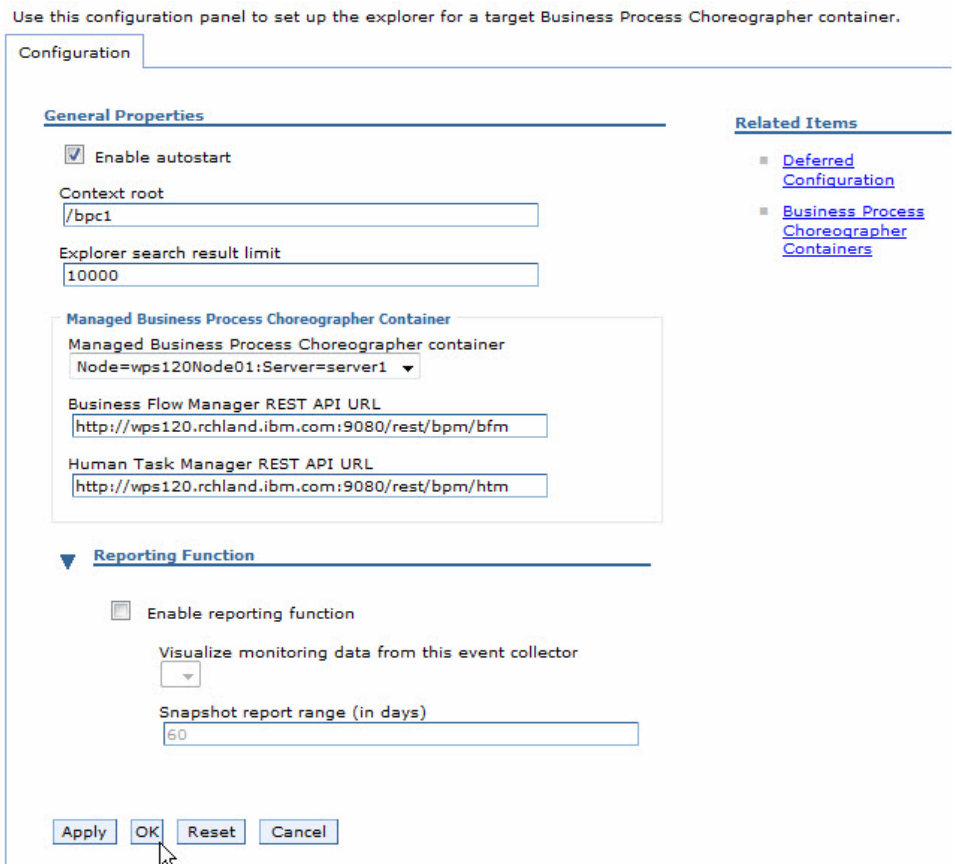
2. From the server 1 page, expand **Business Process Choreographer** and select **Business Process Choreographer Explorer**.



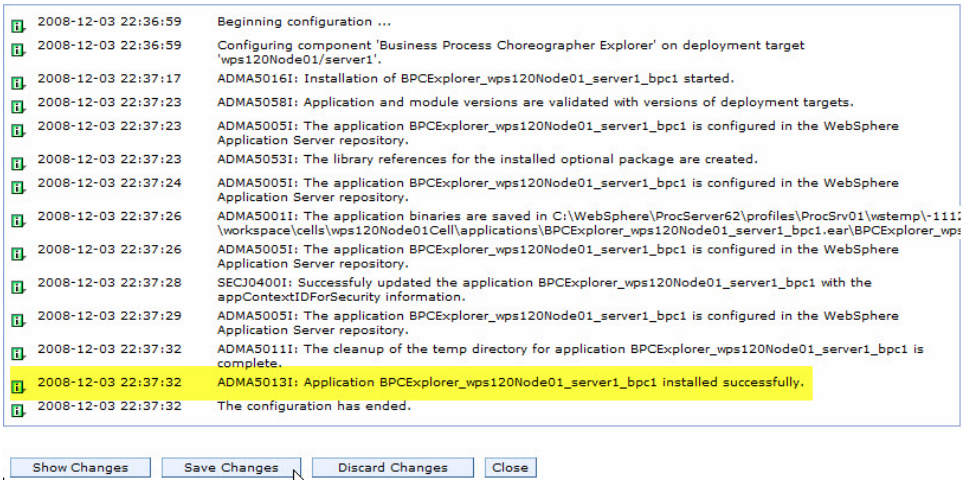
3. From the Business Process Choreographer Explorer page, click **Add**.



4. From the Business Process Choreographer Explorer Configuration page, click **OK**.



5. Click **Save Changes** and **OK**.



Now, you can verify the WebSphere Process Server installation and configuration.

Verifying the installation of WebSphere Process Server 6.2

Check settings and behavior to ensure the software is running.

Verification step instructions provides quick understanding of what to check to make sure the software is running properly.

1. Start the server.
   Run C:\WebSphere\ProcServer62\bin\startServer server1.
2. Open the WebSphere Application Server administrative console in a web browser.
   For example: `http://hostname:port/ibm/console`.
3. Login to the WebSphere administrative console.
4. Stop the server
   Run C:\WebSphere\ProcServer62\bin\stopServer server1.

WebSphere Service Registry and Repository Version 6.2.0.2

WebSphere Service Registry and Repository provides technical service metadata in the runtime environment.

With WebSphere Service Registry and Repository, you can:

- Enable SOA governance of your services throughout the service lifecycle.
- Promote reuse and eliminate redundancies by increasing visibility of services, applications and processes.
- Enhance connectivity by increasing runtime flexibility of applications integrated using the Enterprise Service Bus (ESB).
- Optimize the use of services in SOA by exchanging rich service information with runtime monitoring tools and operational data stores.
- Enable governance and lifecycle management of your high-value applications, such as WebSphere MQ, CICS and IMS.
- Enable policy management across the SOA lifecycle spanning all categories of policy.

Installing the WebSphere Service Registry and Repository Version 6.2.0.2

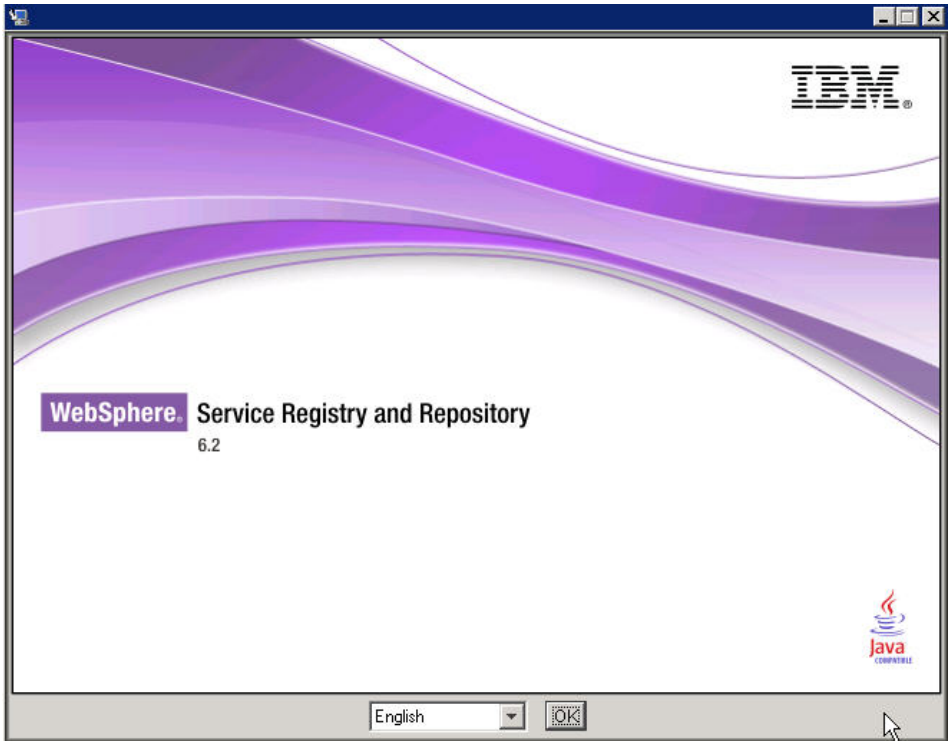
You install the software using the installation wizard. You can obtain the WebSphere Service Registry and Repository 6.2.0.2 product files in two ways, from the disks in the product package or by downloading installation images from the Passport Advantage® site, if you are licensed to do so.

This task describes how to install WebSphere Service Registry and Repository Version 6.2.0.2.

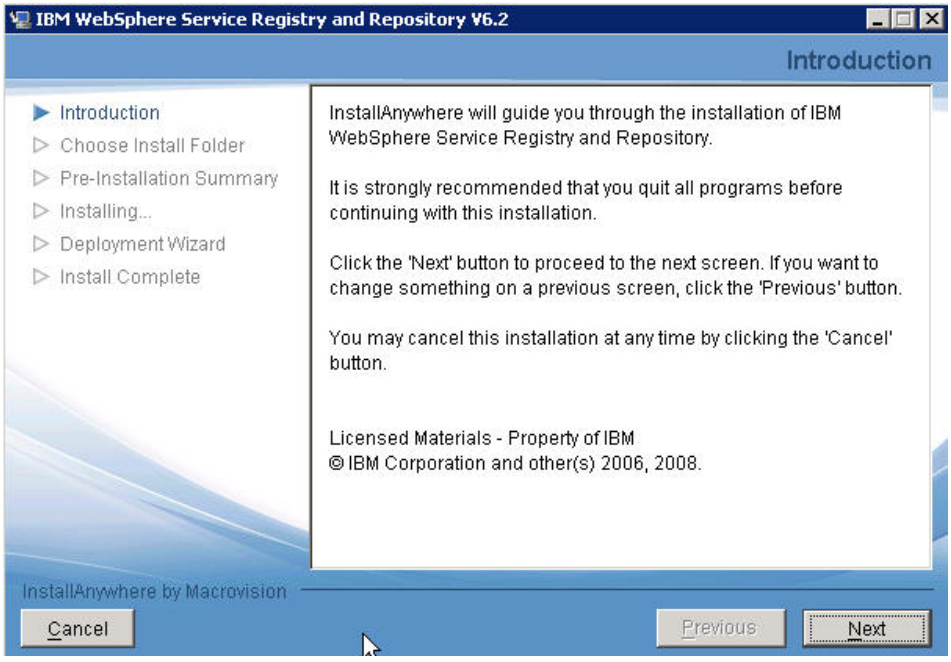
The screen captures are included to make it easier to follow the step instructions.

The step instructions are included to provide the specific task you need to perform and any information needed to perform the task (such as directory locations, parameters to enter, etc.)

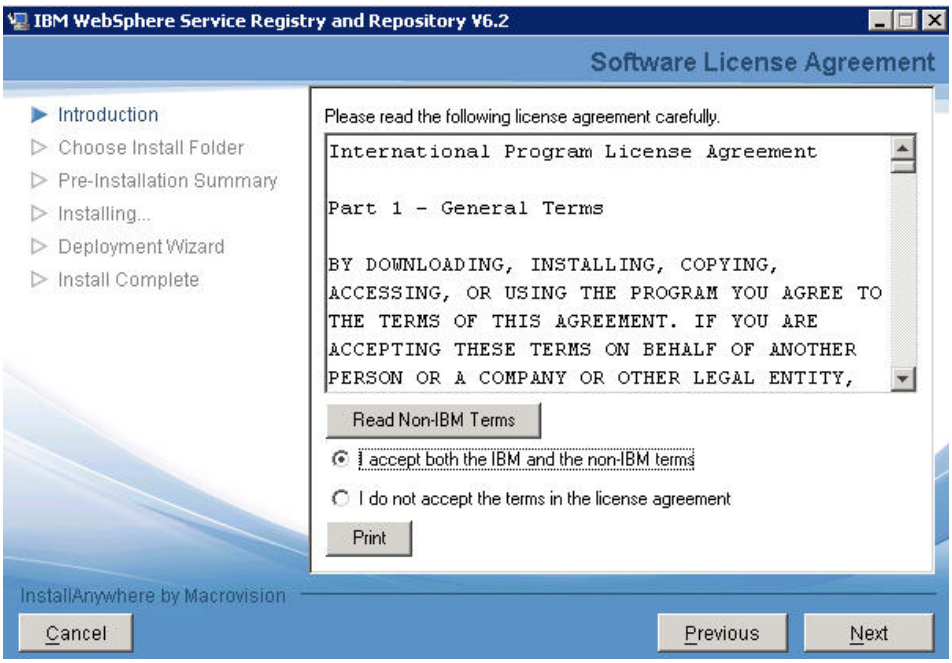
1. Run install.exe from the directory into which you downloaded it.
   Click **OK**.



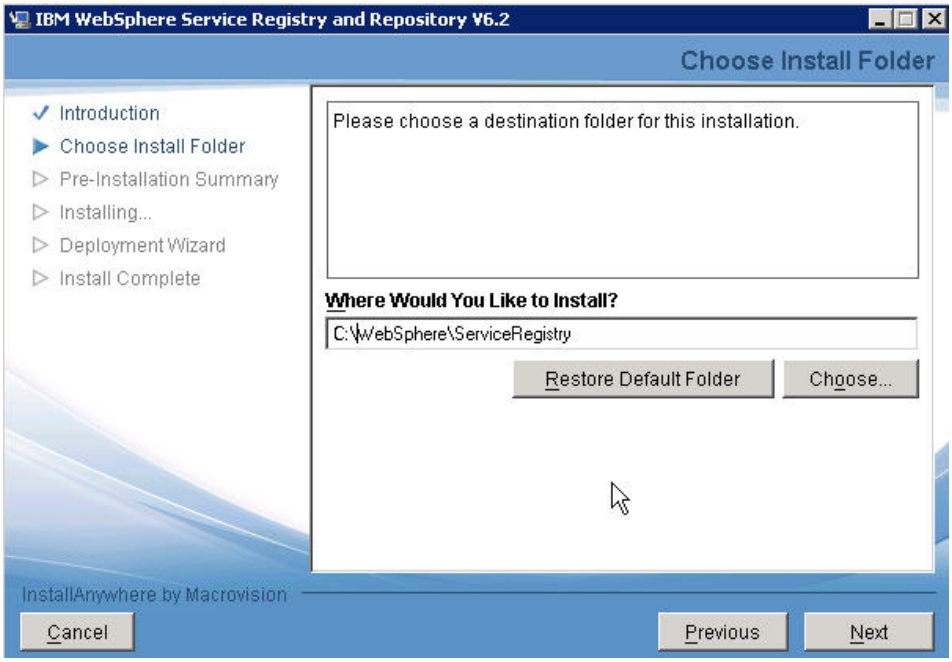
2. From the Introduction page select **Next**.



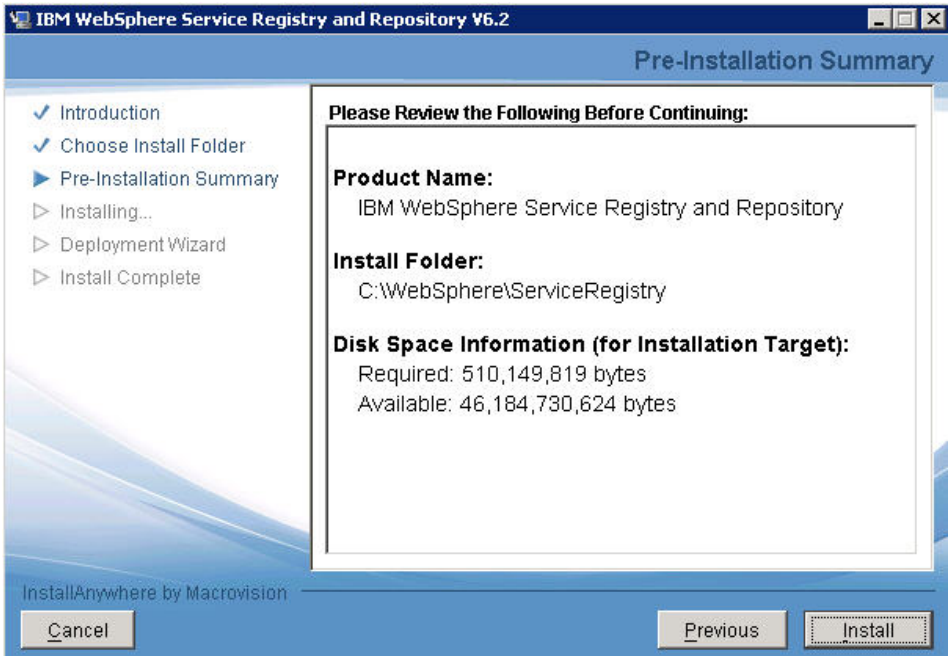
3. From the Software License Agreement page, accept the terms of the license agreements and click **Next**.



4. From the Choose Install Folder page, choose into which directory you want to install and click **Next**.

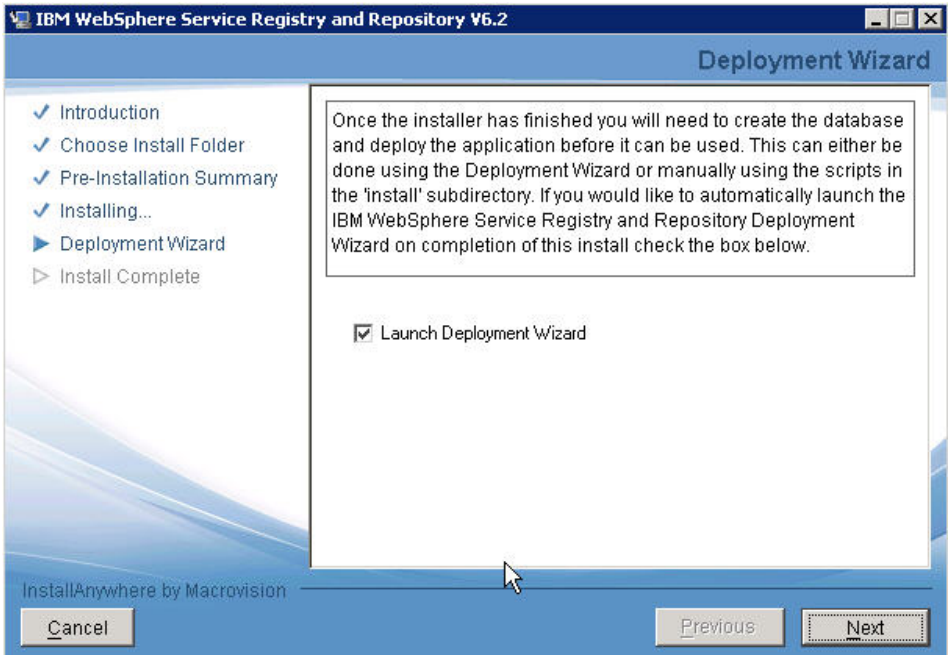


5. From the Pre-installation Summary page, review the selections that you have made and click **Install**.

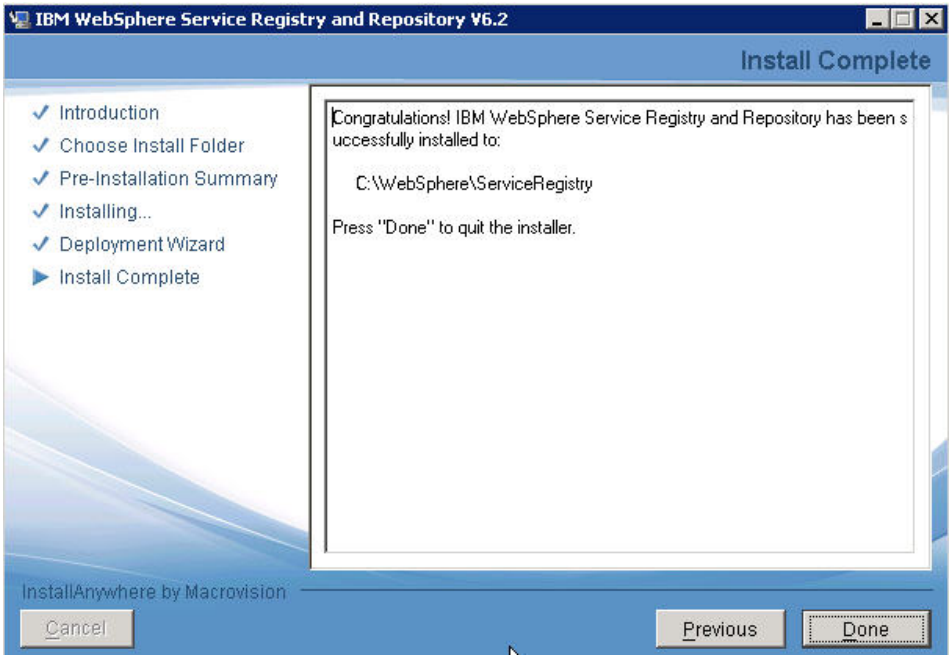


6. From the Deployment Wizard launch page, read the description of the Deployment Wizard functionality.

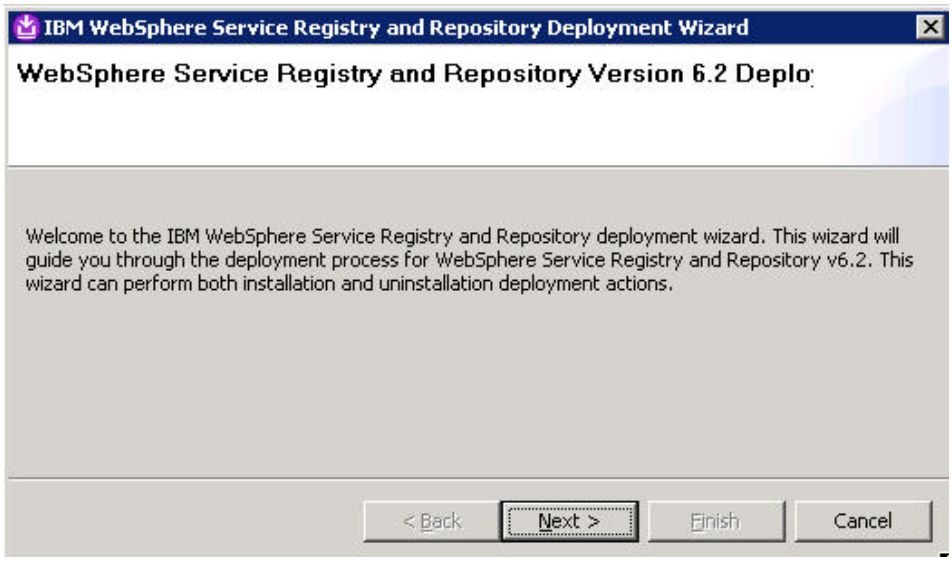
   If you want to launch the Deployment wizard, make sure the **Launch Deployment Wizard** checkbox is checked and click **Next**.



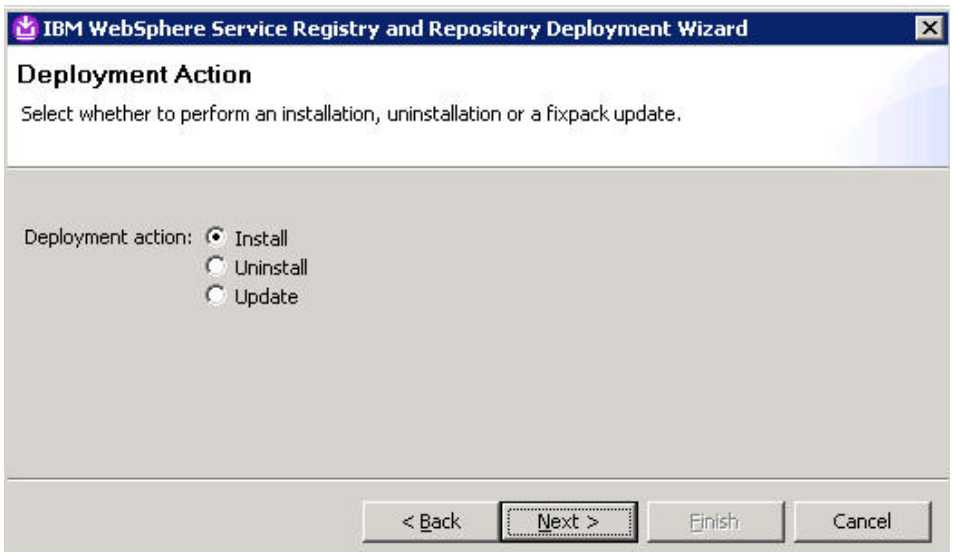
7. From the Install Complete page, click **Done**.



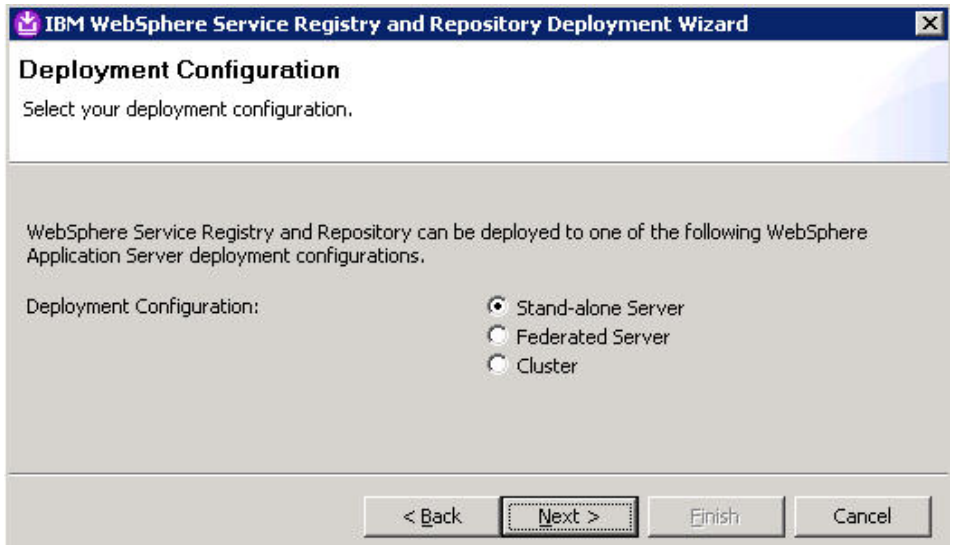
8. From the Deployment Wizard welcome screen, read the description and click **Next**.



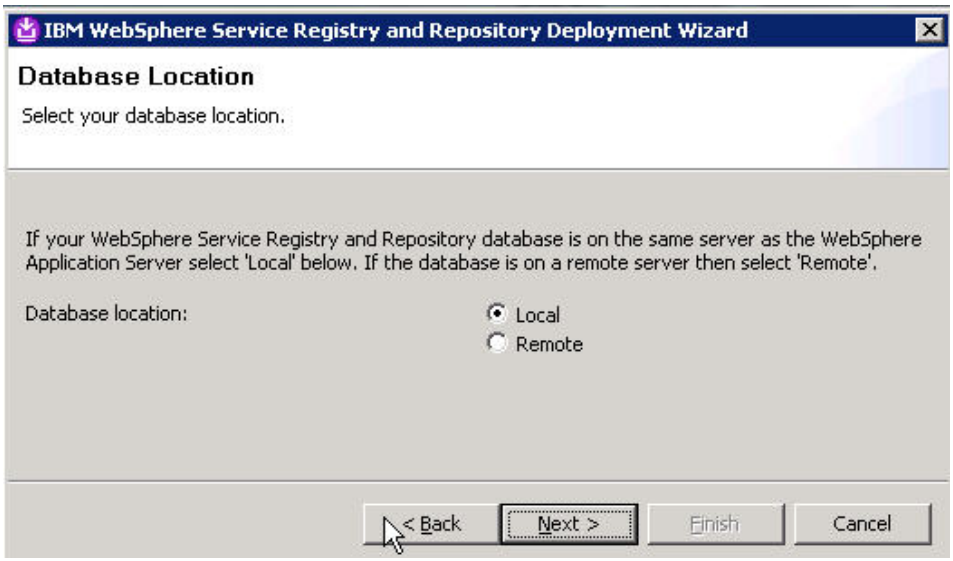
9. From the Deployment Action page, make sure **Install** is selected and click **Next**.



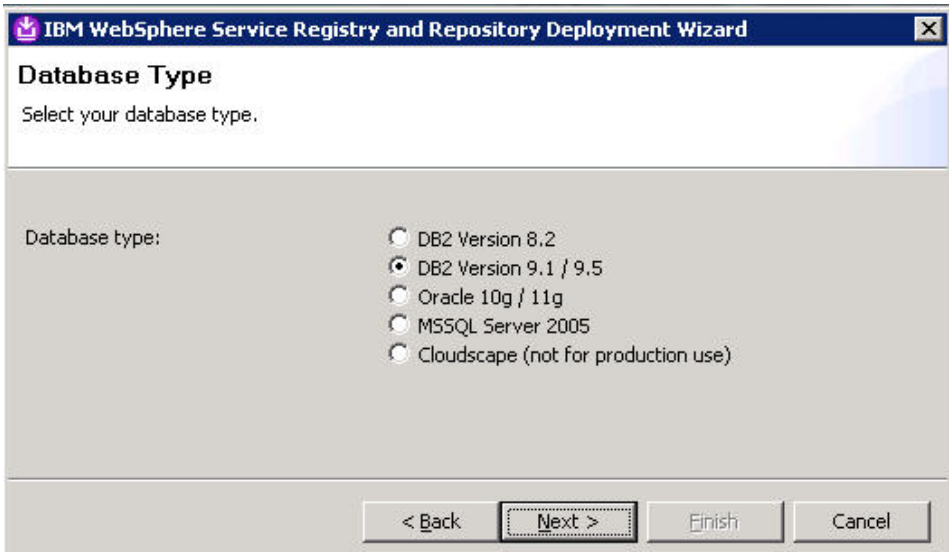
10. From the Deployment Configuration page, make sure **Stand-alone Server** is selected and click **Next**.



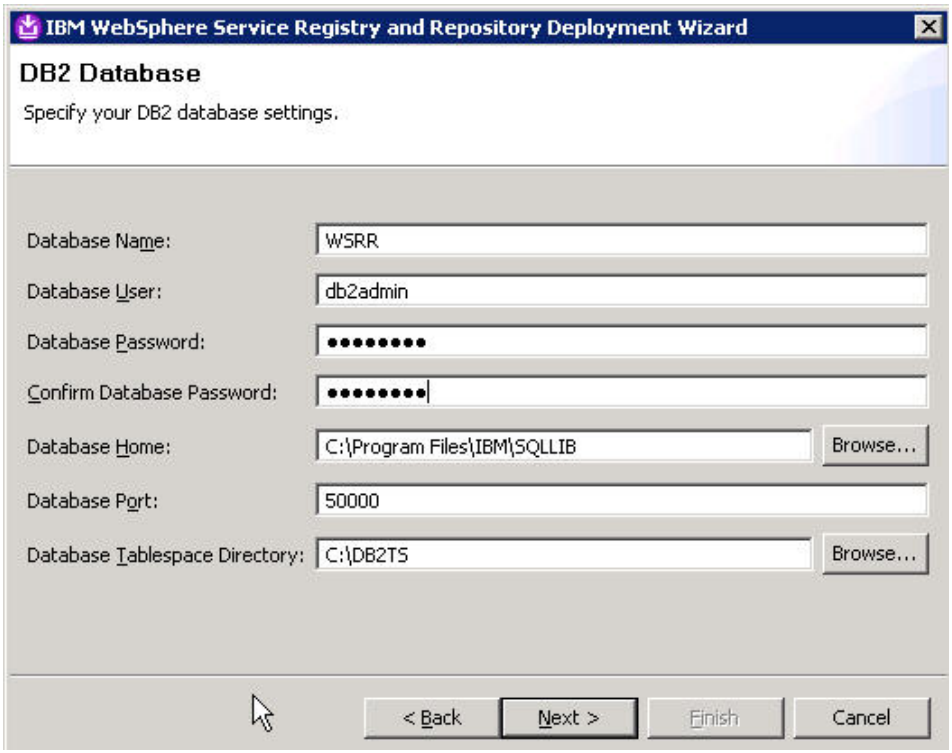
11. From the Database Location page select the database location and click **Next**.



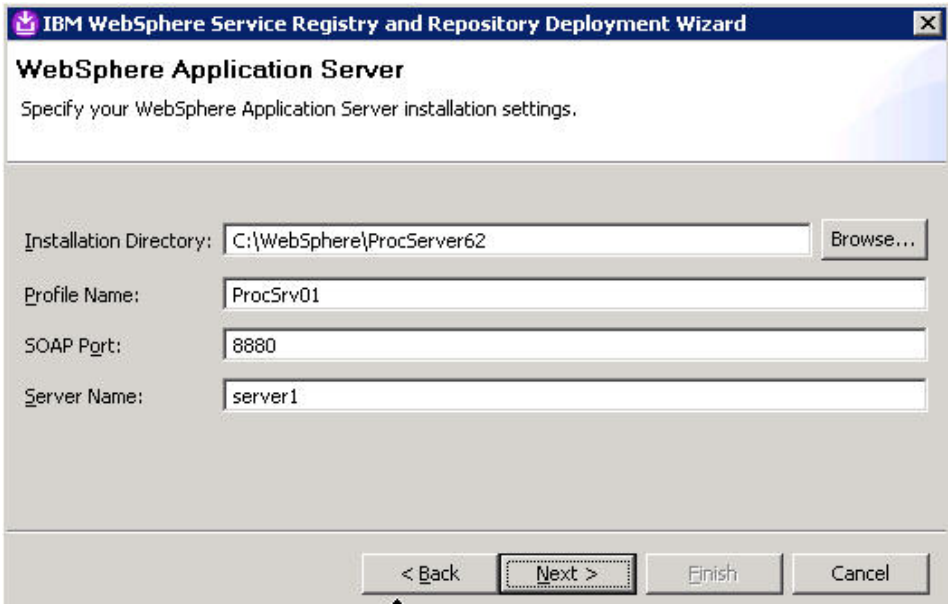
12. From the Database Type page, select Cloudscape (not for production use) and click **Next**.



13. From the DB2 Database security settings page, enter a value for **Database user** and **Database password**.



14. From the WebSphere Application Server installation settings page, specify the Installation Directory and Profile Name then click **Next**.

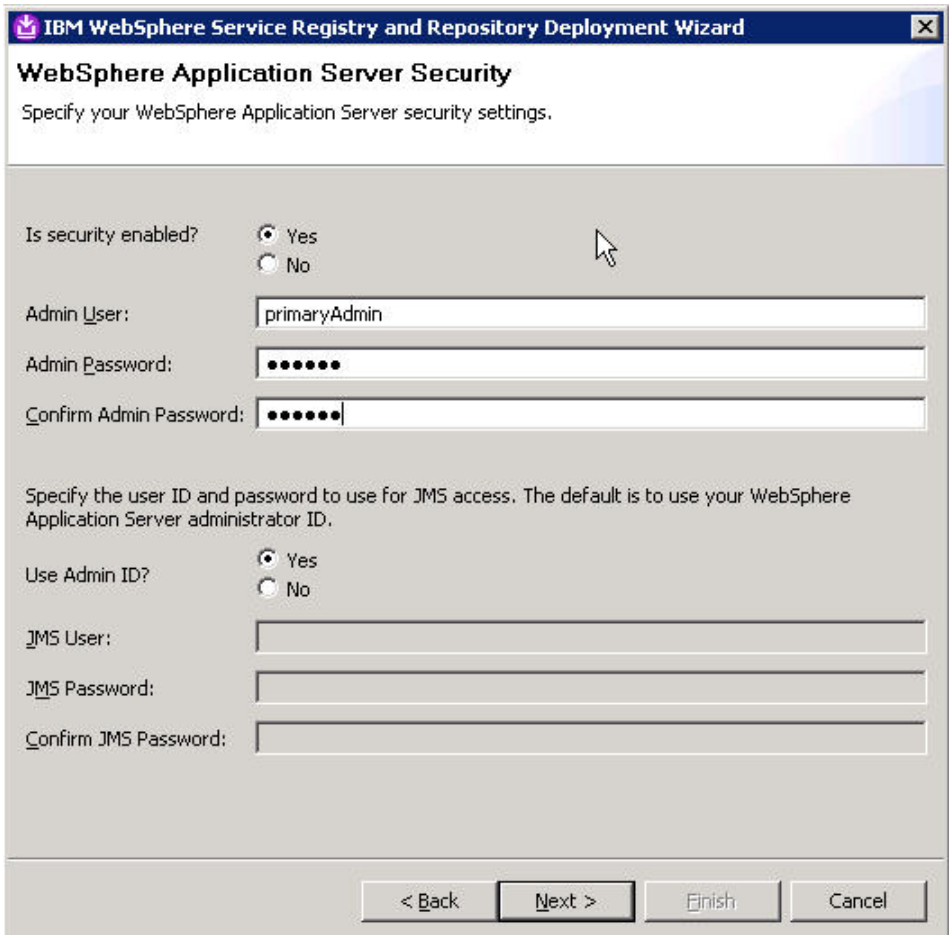


15. Select your security settings.

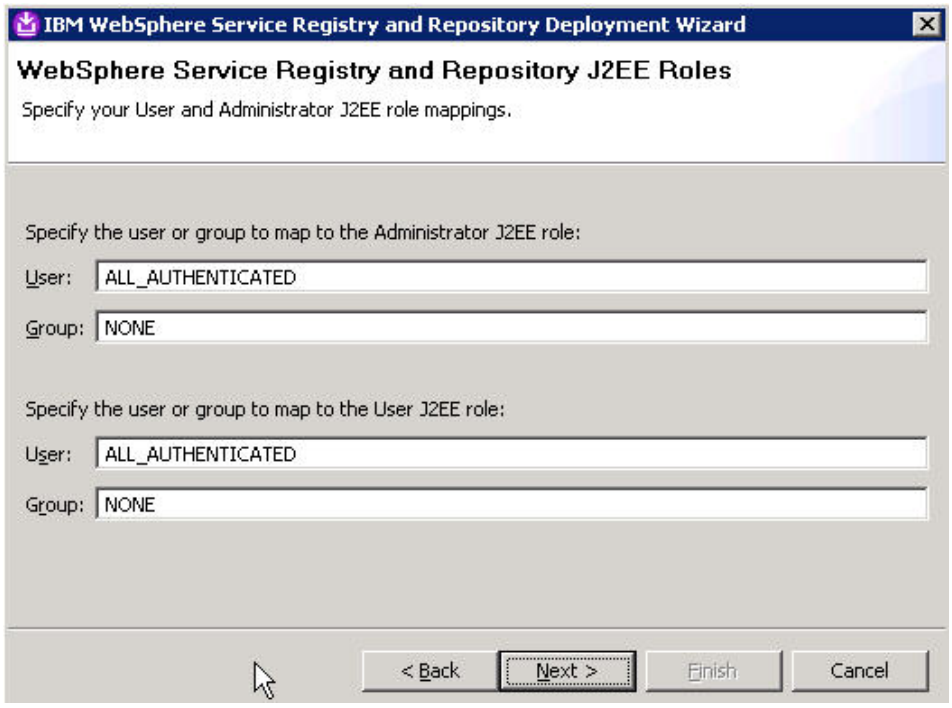
    From the WebSphere Application Server security settings page make the following selections:

    - Select Yes to **Is security enabled?**
    - Enter `admin` as the **Admin User**
    - Enter `admin` as the **Admin Password**

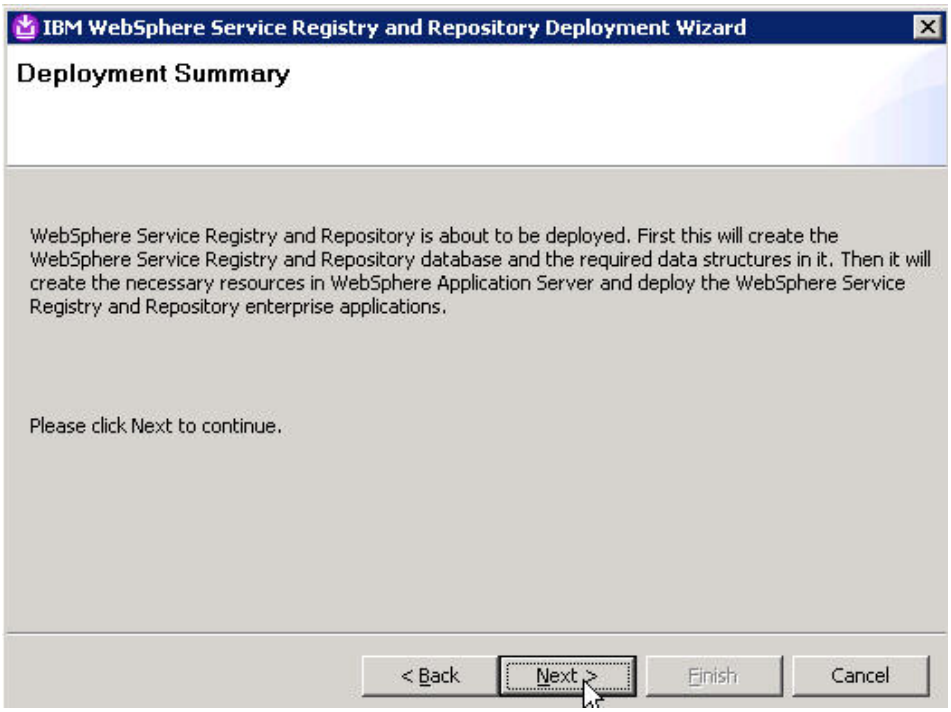
    Click **Next**.



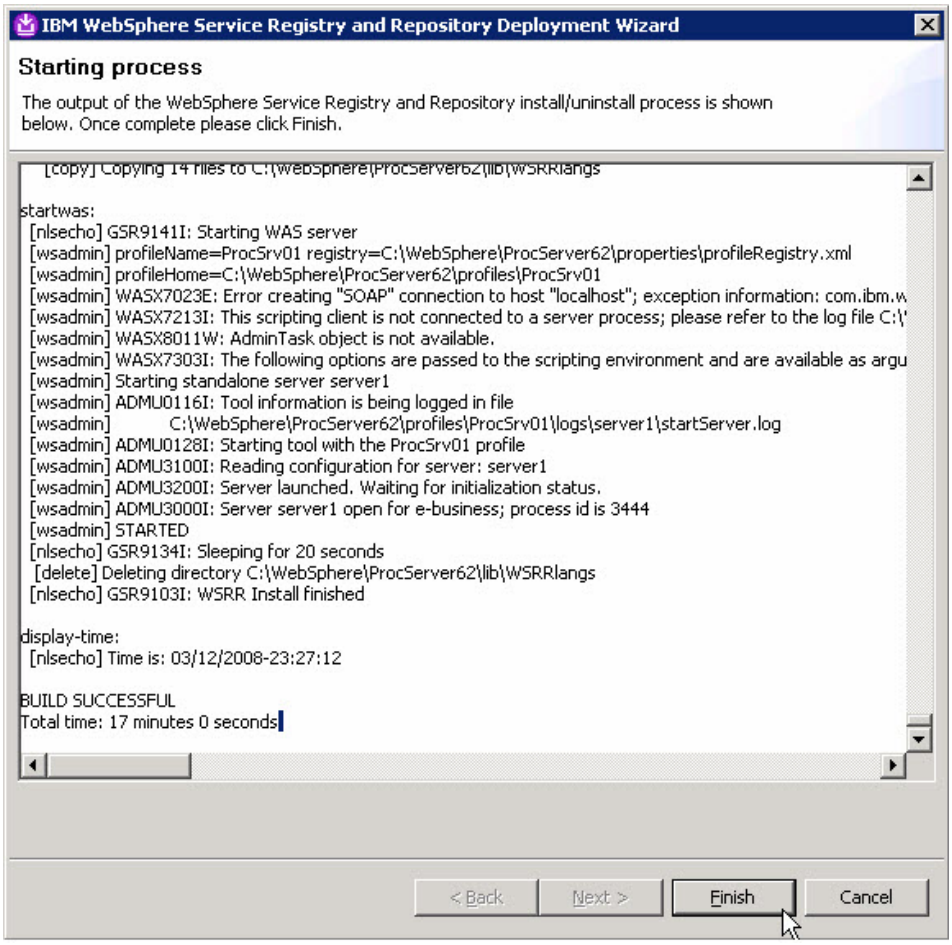
16. From the WebSphere Service Registry and Repository User and Administrator J2EE role mappings page, select **Next**.



17. Review the Deployment Summary page and click **Next**.



18. From the Starting Deployment process page, review the progress and when it completes, click **Finish**.



Now you can verify the installation of WebSphere Service Registry and Repository.

Verifying the installation of WebSphere Service Registry and Repository Version 6.2.0.2

Check the settings and behavior to ensure the software is running.

Verification step instructions provides quick understanding of what to check to make sure the software is running properly.

1. Open the WebSphere Application Server Administrative console in a web browser.

   For example: `http://localhost:9060/ibm/console`
2. Two WebSphere Service Registry and Repository applications are installed and all have been started:
   - **ServiceRegistry**
   - **ServiceRegistryTS**
3. Enter WebSphere Service Registry and Repository home console, like `http://hostname:port/ServiceRegistry`.

   For example `http://localhost:9080/ServiceRegistry`.
4. Stop the server.

   Run C:\WebSphere\ProcServer62\bin\stopServer server1.

WebSphere Business Services Fabric

WebSphere Business Services Fabric enables business users to rapidly assemble new business processes, make concurrent changes with governance but minimal impact to IT, while reusing, sharing current IT assets.

WebSphere Business Services Fabric:

- Uses business defined vocabulary and tasks to enable the assembly of existing and new IT assets into SOA-based, discrete business functions called 'Business Services.
- Stores and acts upon formerly hard-coded, individual process attributes in an IT-governed, easily updatable database and runtime environment, enabling enterprise-wide policy changes to be proliferated concurrently across all applicable processes.
- Includes NEW enhanced business user experience and customizable web-based user interface; automated, policy-based feedback loop with WebSphere Monitor enabling corporate-wide process changes with no human interaction; improved consumability and design tooling to manage roles, channels, and assertions
- Includes NEW prescriptive guidance for developing your own content packs including how-to-guide, industry-specific examples, key performance indicators templates
- Includes New Product Lifecycle Management (PLM) Content Pack applies to Automotive, Electronics, Aerospace and Defense, and Industrial verticals.
- Includes Optional Industry Content Packs help you get started even quicker with prebuilt SOA accelerators designed to speed time to market for industry-specific composite business applications in the form of business services templates

Installing WebSphere Business Services Fabric 6.2

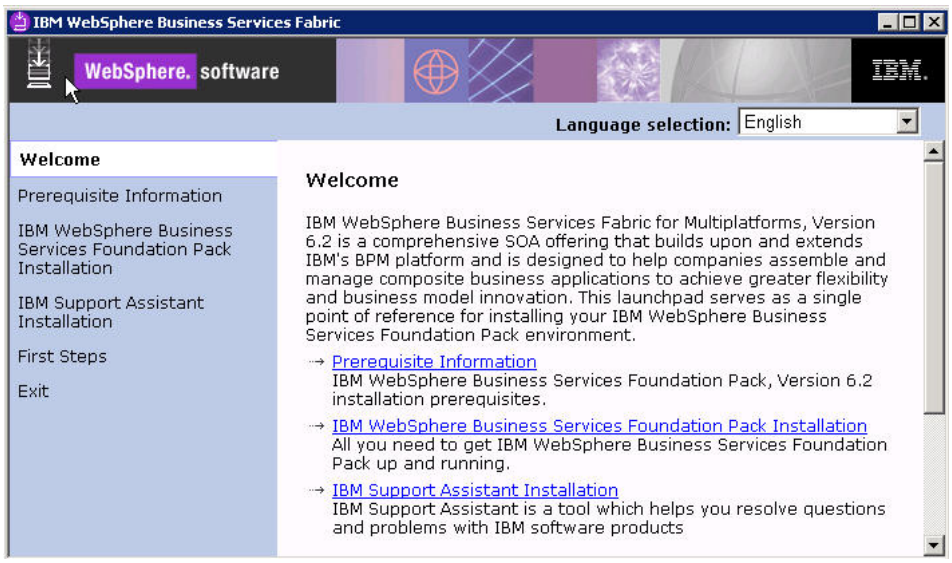
Use the installation wizard to install the software. You can obtain the WebSphere Business Services Fabric 6.2 product files in two ways, from the disks in the product package or by downloading installation images from the Passport Advantage® site, if you are licensed to do so.

This task describes the procedure for installing WebSphere Business Services Fabric.

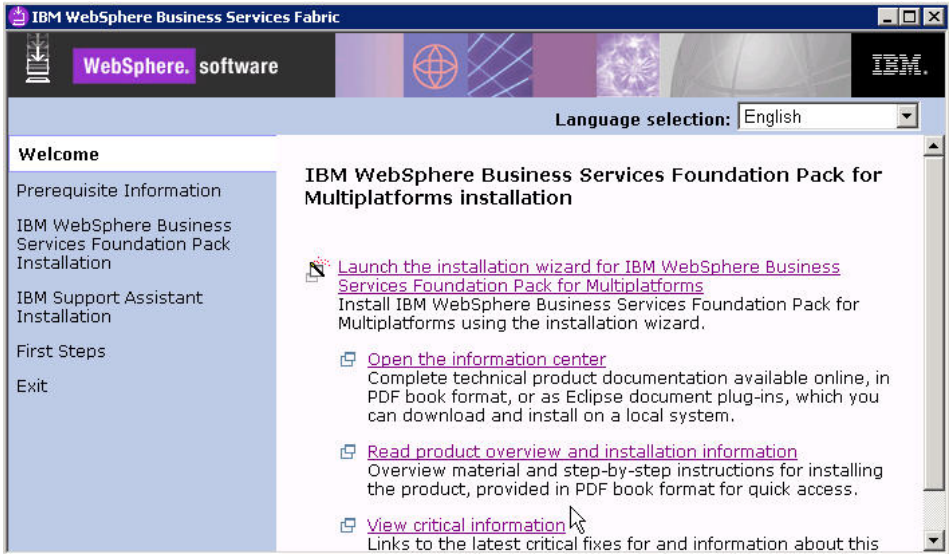
The screen captures are included to make it easier to follow the step instructions.

The step instructions are included to provide the specific task you need to perform and any information needed to perform the task (such as directory locations, parameters to enter, etc.)

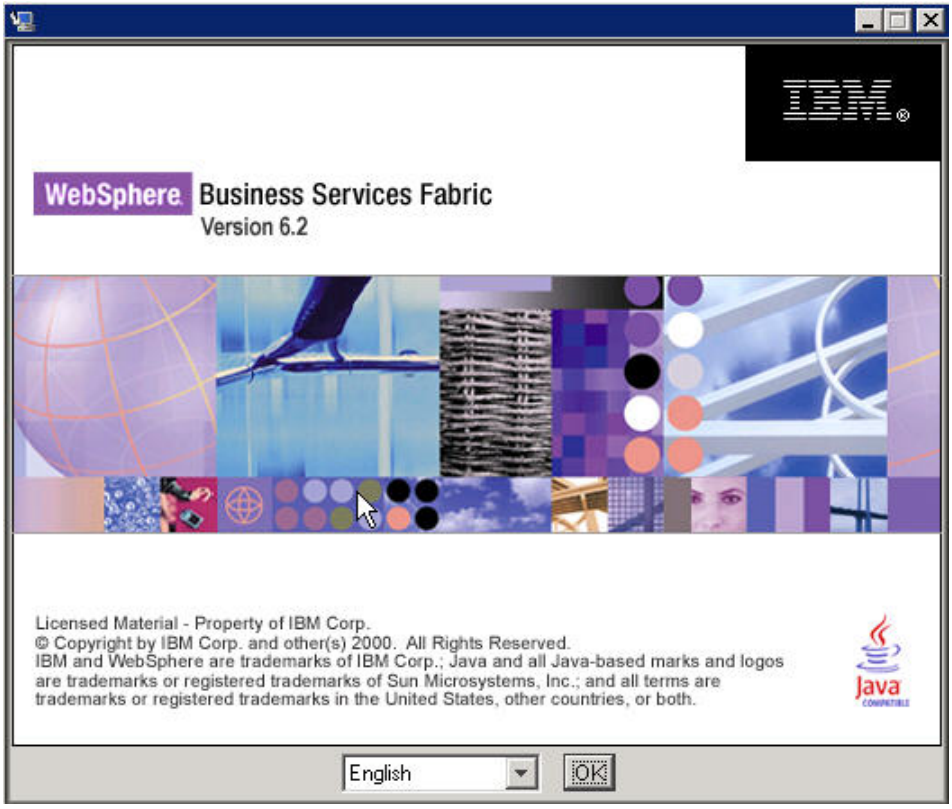
1. Run the launchpad.exe from the directory into which you downloaded it.
2. From the Welcome page, select **IBM WebSphere Business Services Foundation Pack Installation**.



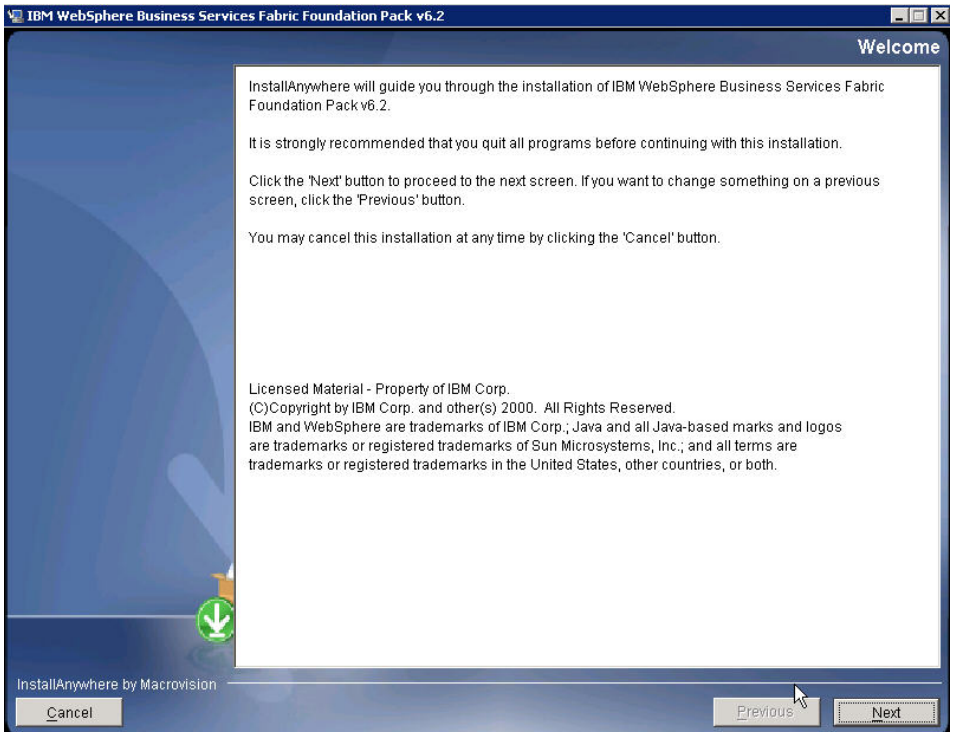
3. From the IBM WebSphere Business Services Foundation Pack Installation page, select **Launch the installation wizard for IBM WebSphere Business Services Foundation Pack for Multiplatforms**.



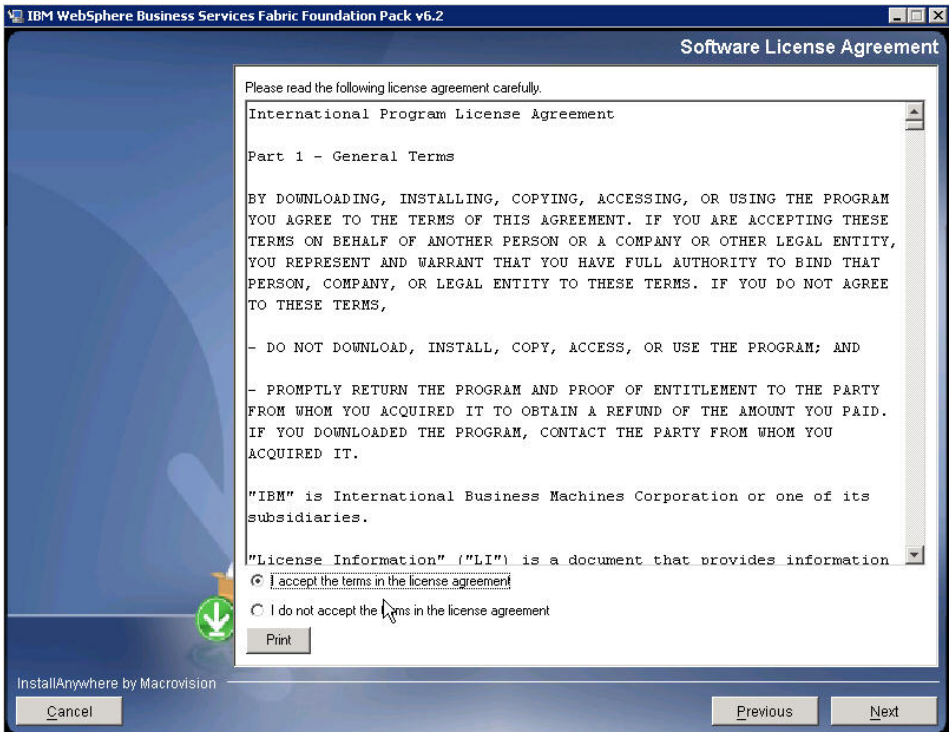
4. From the Business Services Fabric page, select the language and click **OK**.



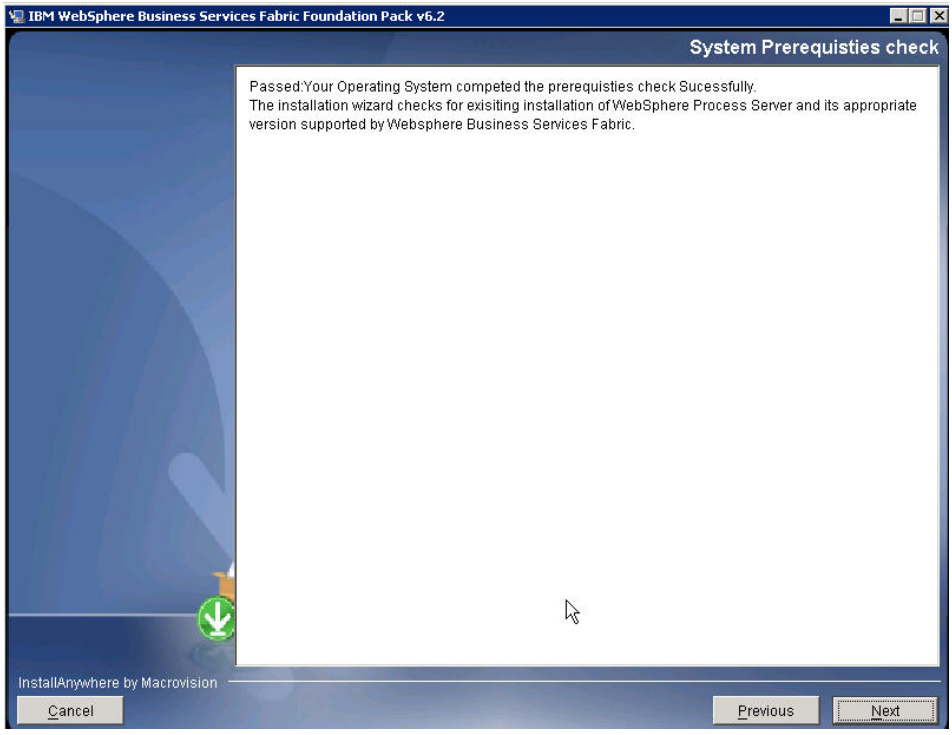
5. From the Install Anywhere page, click **Next**.



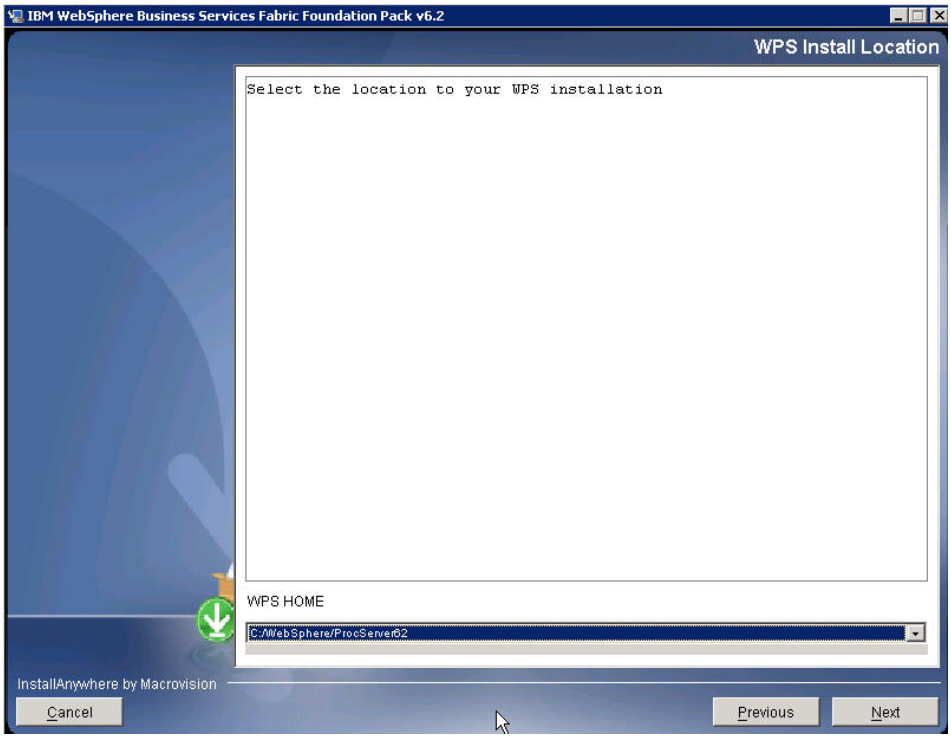
6. From the Software License Agreement page, select **Accept** and click **Next**.



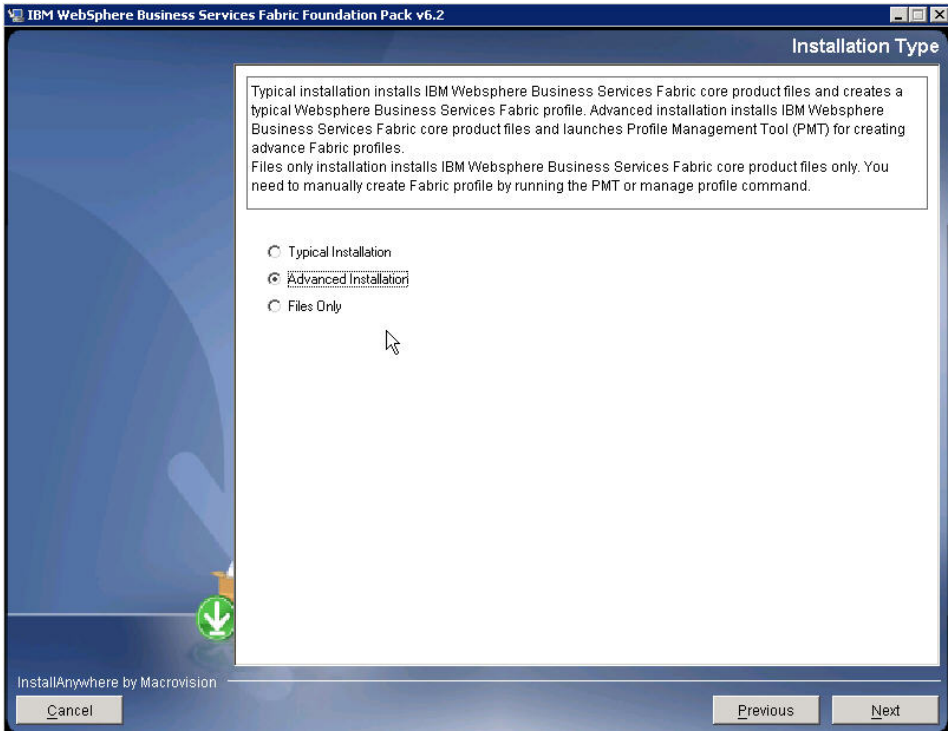
7. From the System Prerequisite Check page, click **Next**.



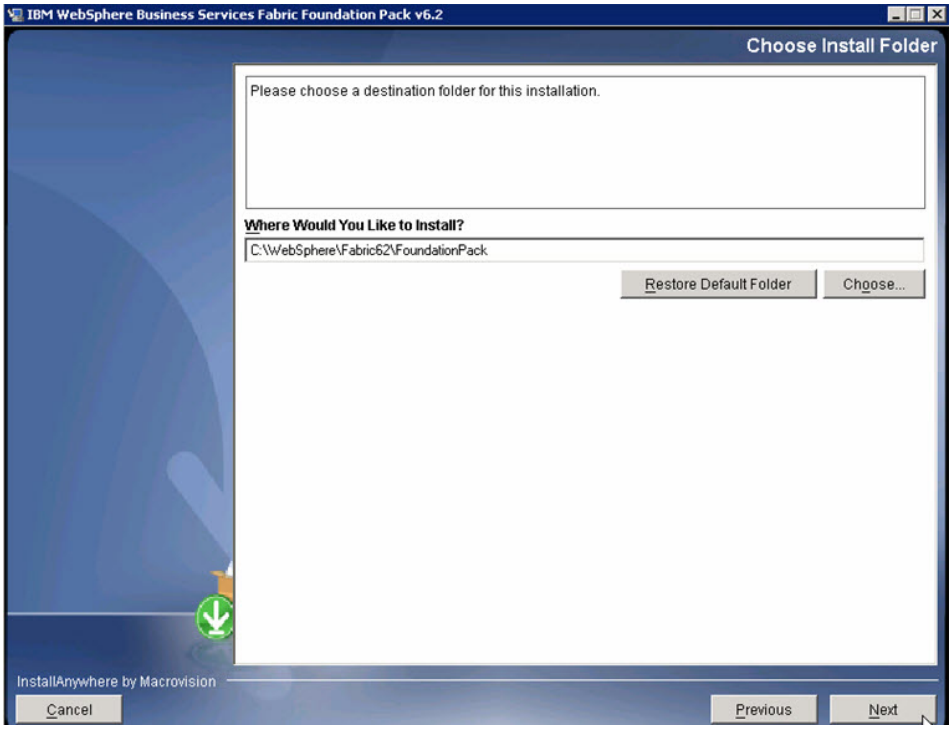
8. From the WebSphere Process Server Location page, choose the location of your WebSphere Process Server product installation and click **Next**.



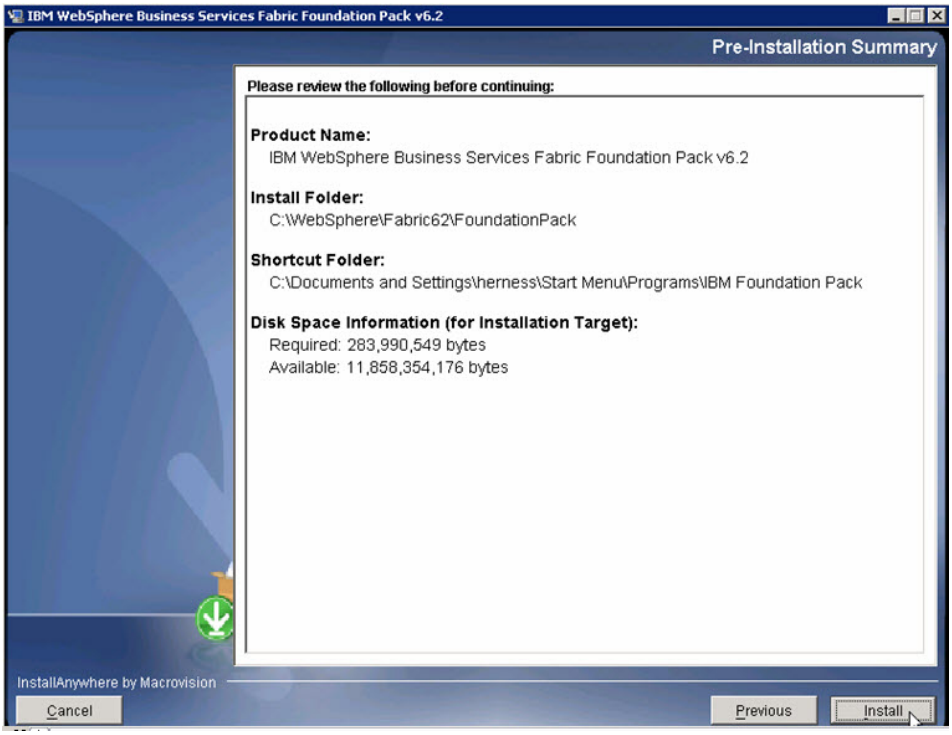
9. From the Installation Type page, select **Advanced Installation** and click **Next**.



10. From theChoose Install Folder page, choose the directory into which you want to install the software and then click **Next**.

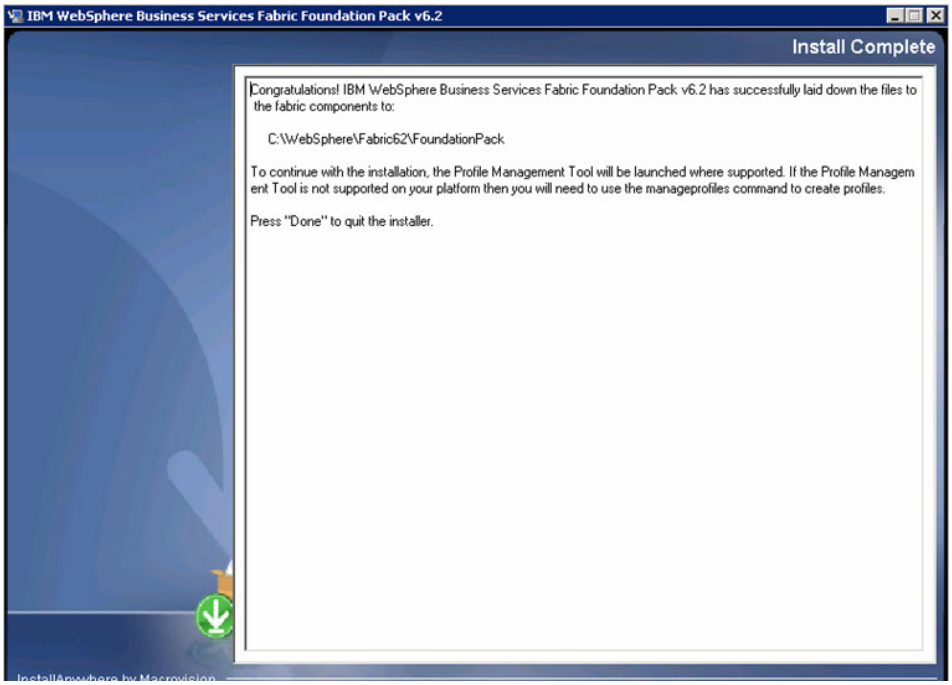


11. From the Preinstallation Summary page, review the install options that you have chosen and click **Install**

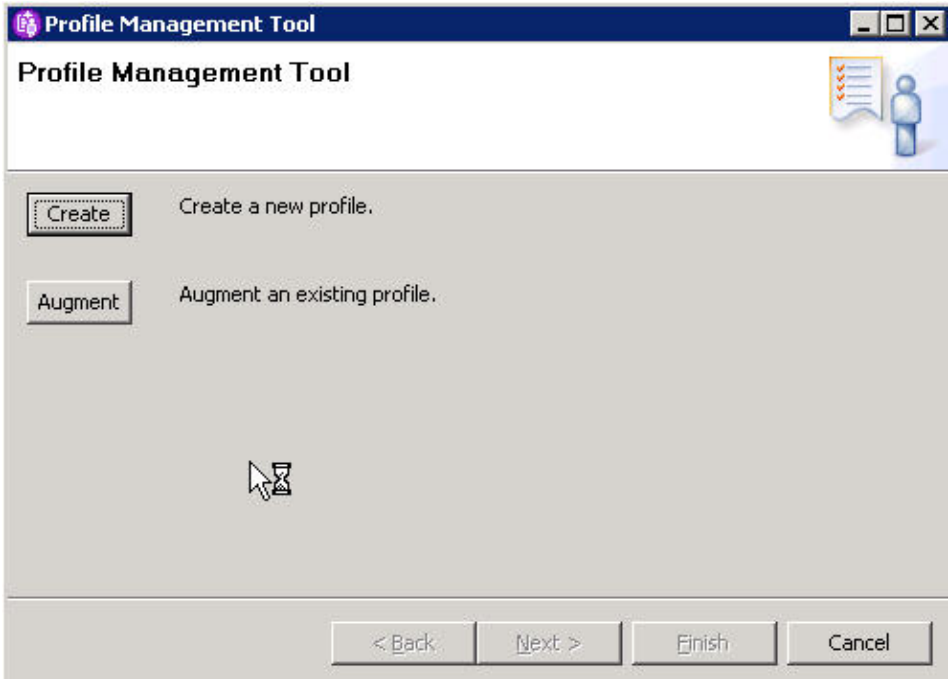


12. From the Install Complete page, click **Done**.

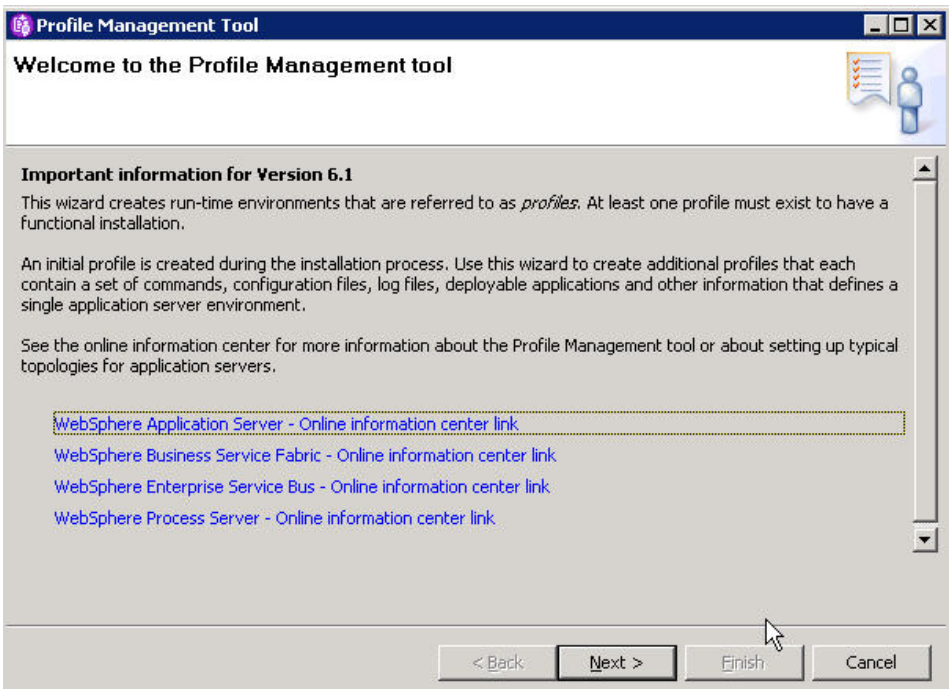
    After completing the installation, the Profile Management tool launches automatically.



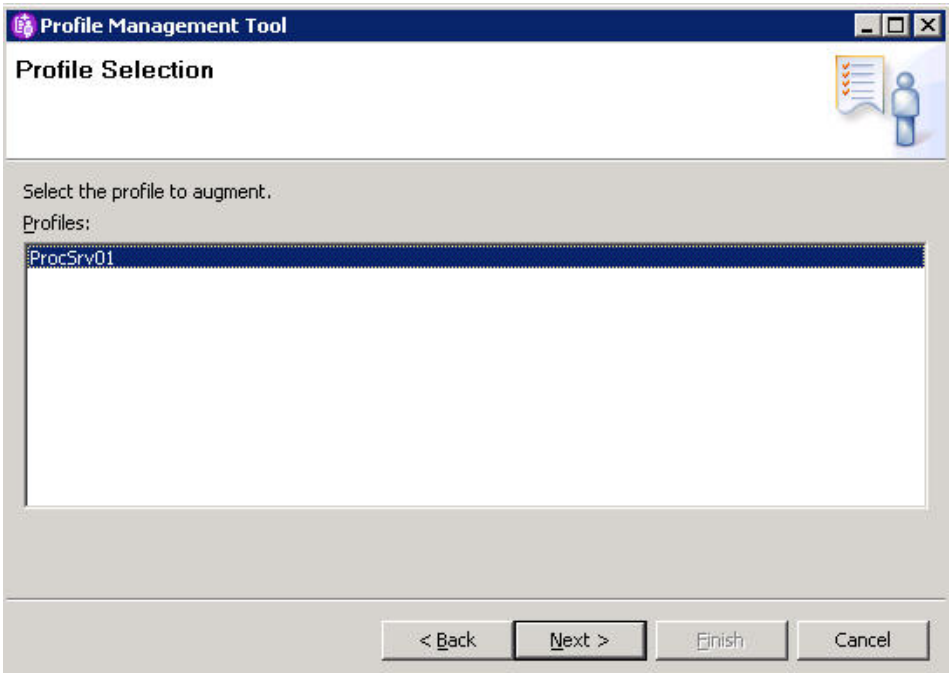
13. From the Profile Management tool page, click **Augment** to augment an existing profile.



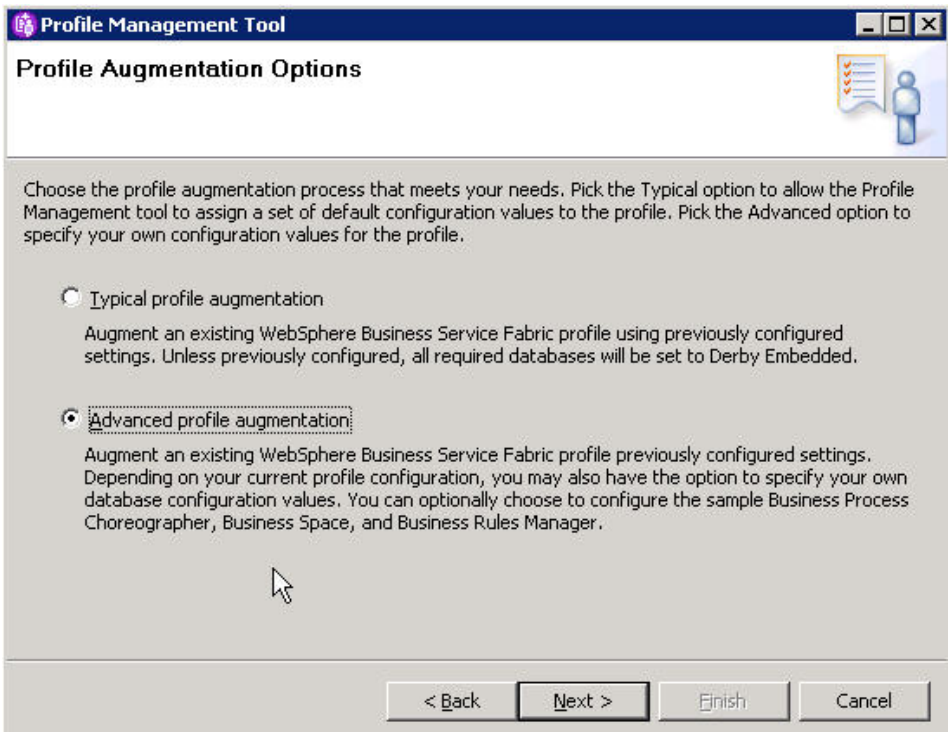
14. From the Welcome to the Profile Management Tool page, click **Next**.



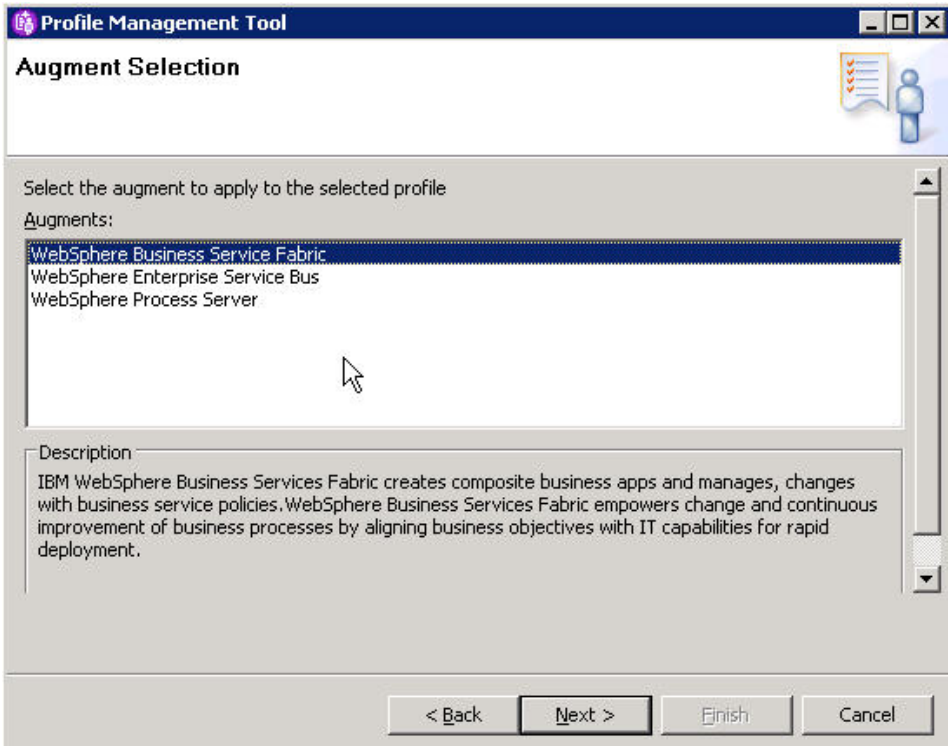
15. From the Profile Selection page, click **Next**.



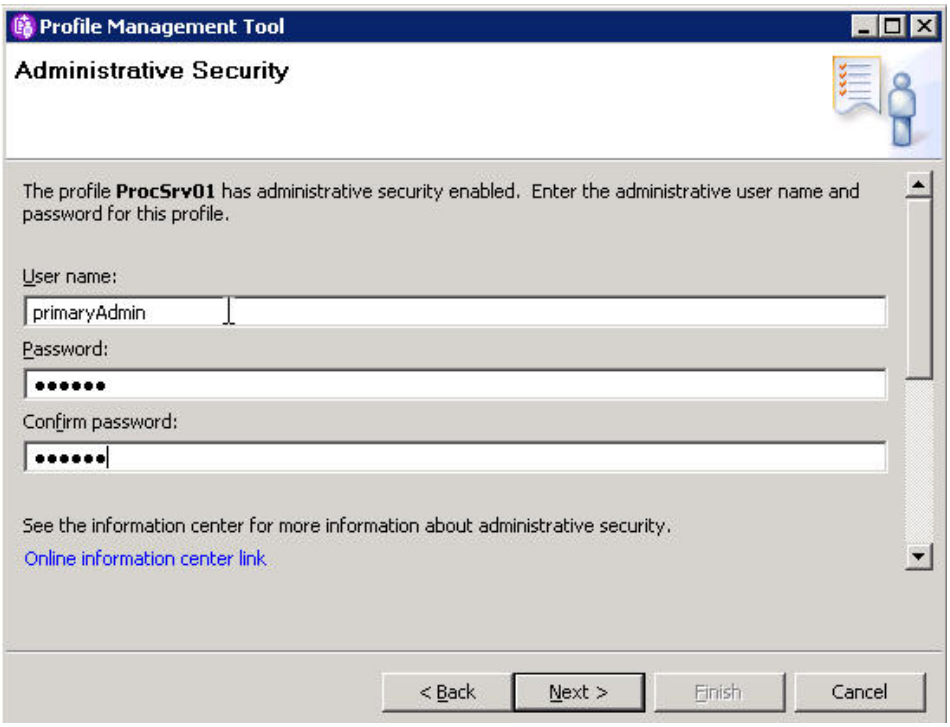
16. From the Profile Augment Options page, select **Advanced profile augmentation** and click **Next**.



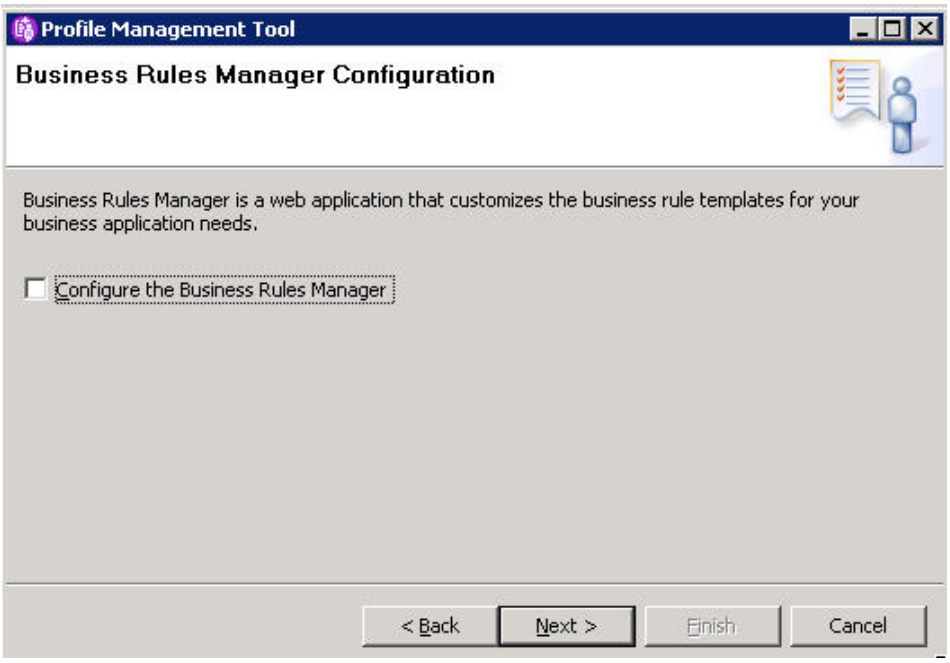
17. From the Augment Selection page, select **WebSphere Business Service Fabric** and click **Next**.



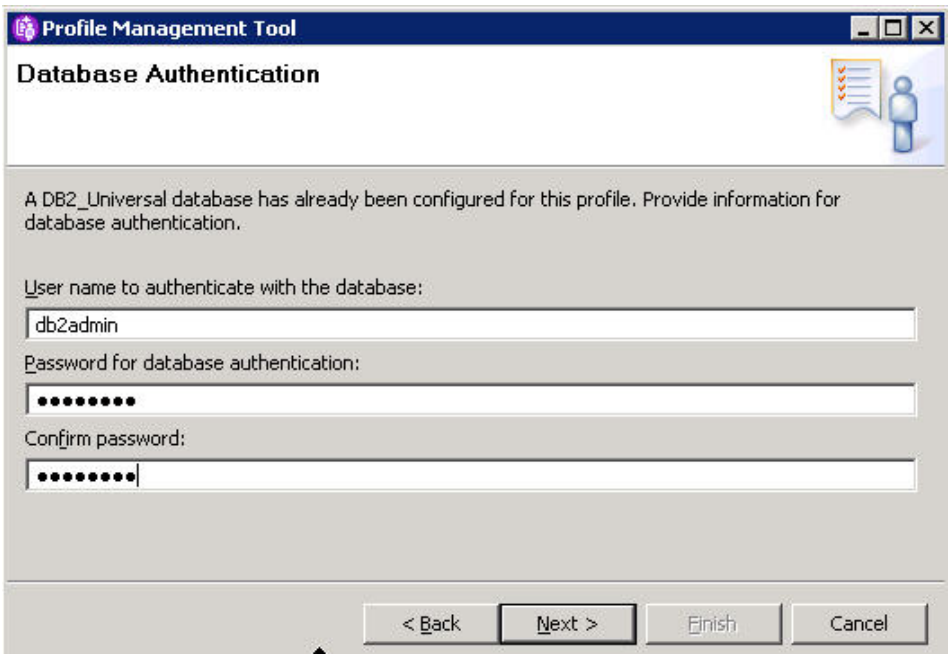
18. From the Administrative Security page, enter values for **User name** and **Password** and click **Next**.



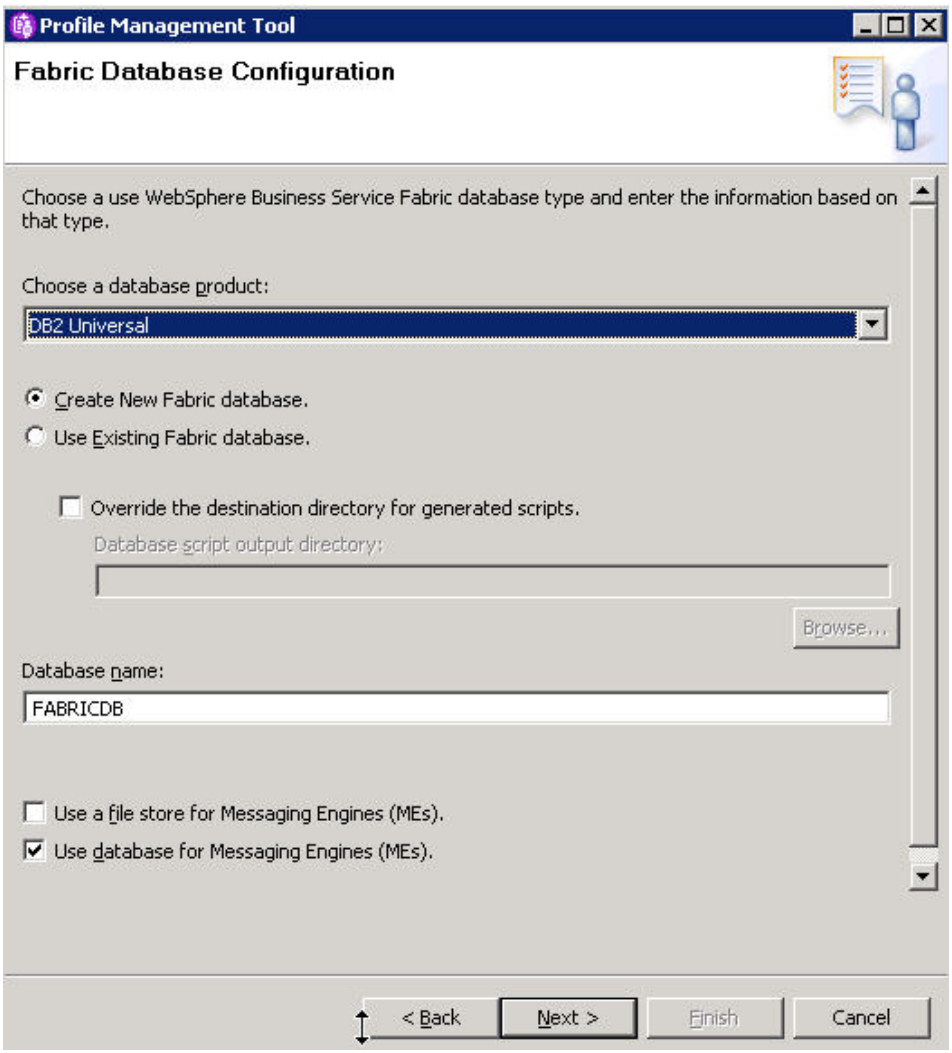
19. From the Business Rules Manager Configuration page, click **Next**.



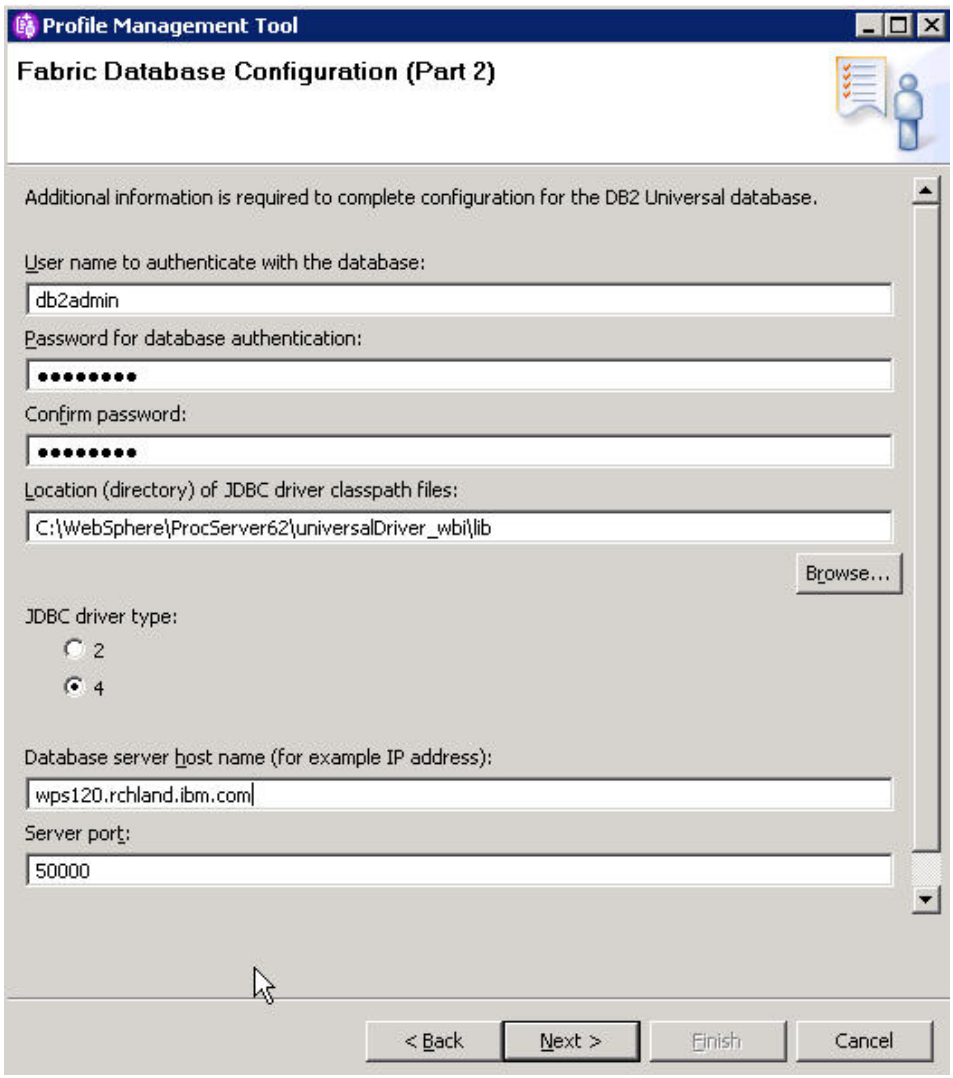
20. From the Database Authentication page, enter a user name and password and click **Next**.



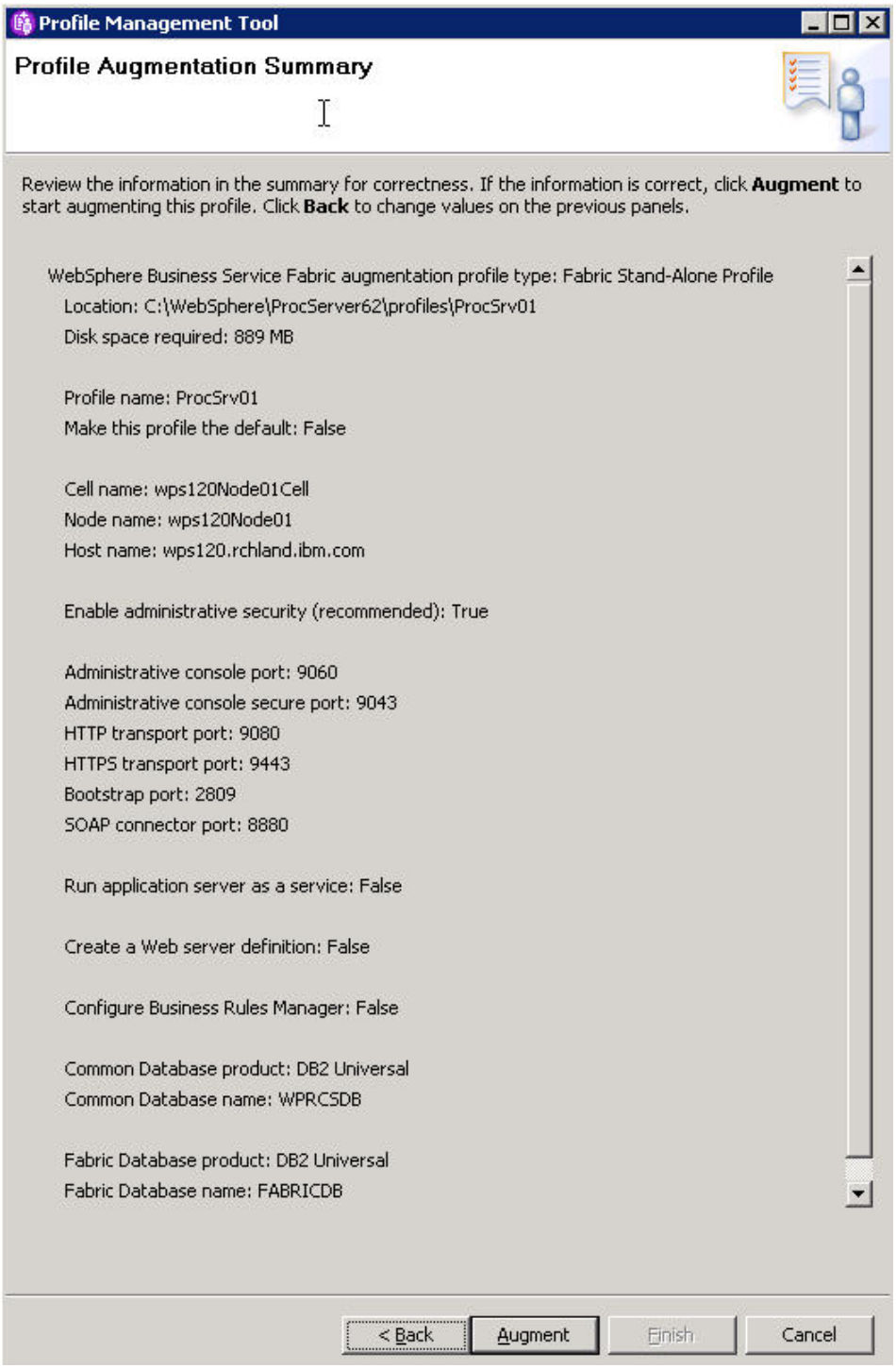
21. From the Fabric Database Configuration page, choose DB2 Universal as the database product, select **Create New Fabric database** and click **Next**.



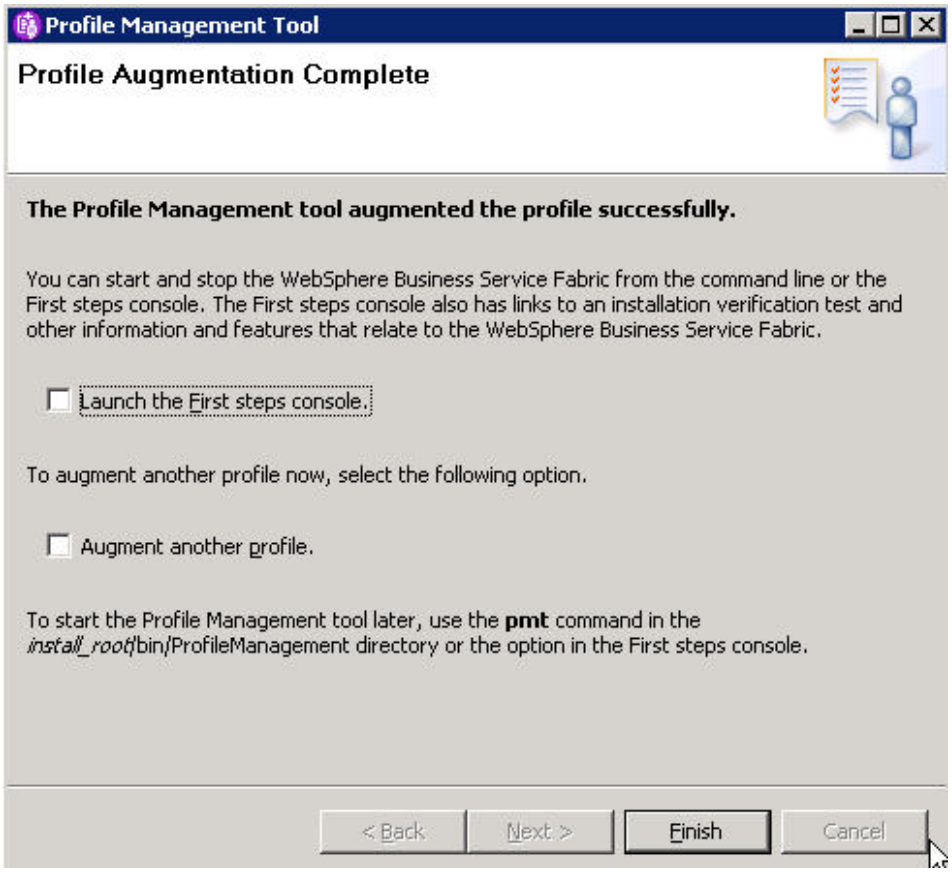
22. From the Fabric Database Configuration (Part 2) page, enter a User name, Password, Database server host name and click **Next**.



23. From the Profile Augmentation Summary page, click **Augment**.



24. From the Profile Augmentation Complete page, uncheck **Launch the First steps console** and click **Finish**.



Now you can verify the WebSphere Business Services Fabric installation.

Verifying the installation of WebSphere Business Services Fabric 6.2

Check settings and behavior to ensure the software is running.

Verification step instructions provides quick understanding of what to check to make sure the software is running properly.

1. Start browser and enter WebSphere Application Server administrative console: `http://hostname:port/ibm/console`.

   For example: `http://localhost:9060/ibm/console`.

   Four WebSphere Business Services Fabric applications are installed and all of them are started:

   - Fabric Catalog
   - Fabric Engine
   - Fabric Tools
   - Fabric Tools Help
2. Verify that four WebSphere Business Services Fabric applications are installed.
3. Open the Fabric console.

   `http://hostname:port/fabric/app`.
4. Stop the server.

Now you can install WebSphere Business Monitor.

WebSphere Business Monitor

Business activity monitoring with WebSphere Business Monitor V6.2 offers real-time insight into your business processes.

WebSphere Business Monitor V6.2 provides new interfaces and capabilities for business users, and offers enhanced predictive capabilities allowing you to take advantage of market opportunities and prevent problems before they occur.

WebSphere Business Monitor V6.2 includes the following features and functionality:

- New business user interface - Business Space powered by WebSphere permits customers to easily integrate business activity monitoring capabilities along with other BPM applications for holistic process management.
- Predict key performance indicator (KPI) values for future periods – Predictive capabilities take business activity monitoring to the next level by enabling users to pre-empt potential problems and take advantage of potential opportunities.
- Comprehensive KPIs - WebSphere Business Monitor offers an embedded metrics library of over 800 open standard Key Performance Indicators (KPIs) based on the APQC Process Classification Frameworksm (PCF).
- Advanced problem detection - WebSphere Business Monitor can feed any KPI alerts to WebSphere Business Events to detect hidden patterns in the alerts and indicate a potential business problem that might otherwise go undetected

Installing WebSphere Business Monitor 6.2

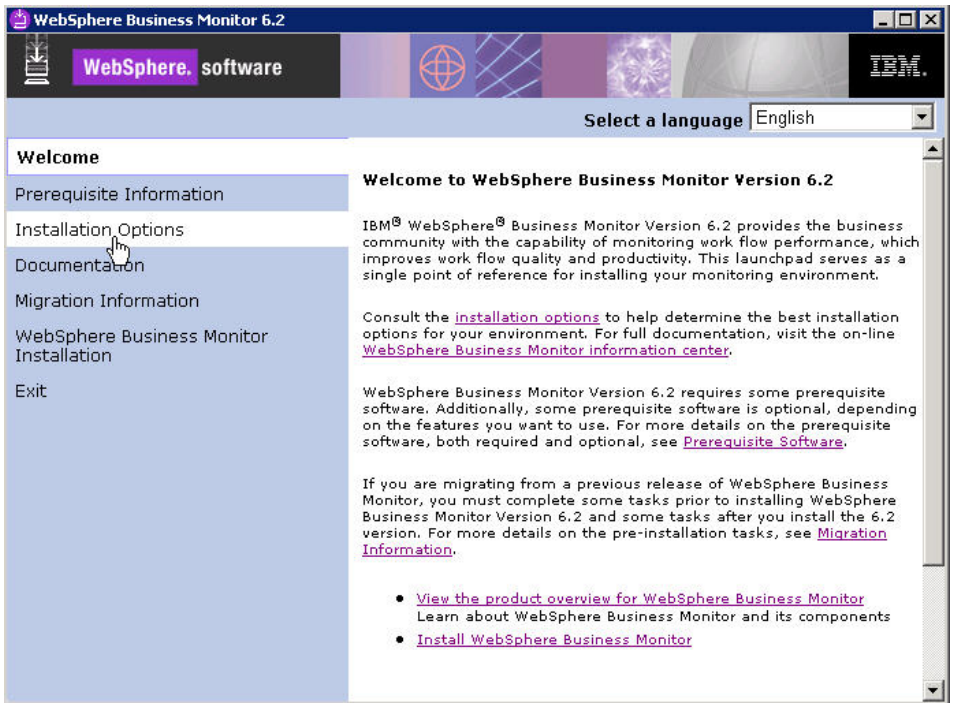
Use the installation wizard to install the software. You can obtain the WebSphere Business Monitor 6.2 product files in two ways, from the disks in the product package or by downloading installation images from the Passport Advantage® site, if you are licensed to do so.

This task describes the procedure for installing WebSphere Business Monitor.

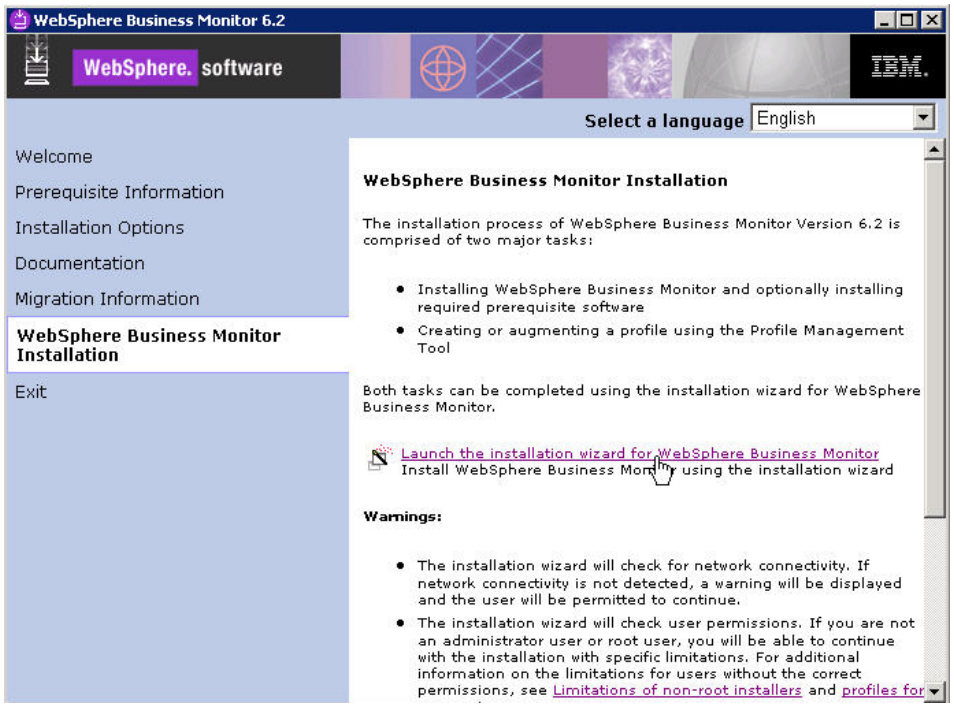
The screen captures are included to make it easier to follow the step instructions.

The step instructions are included to provide the specific task you need to perform and any information needed to perform the task (such as directory locations, parameters to enter, etc.)

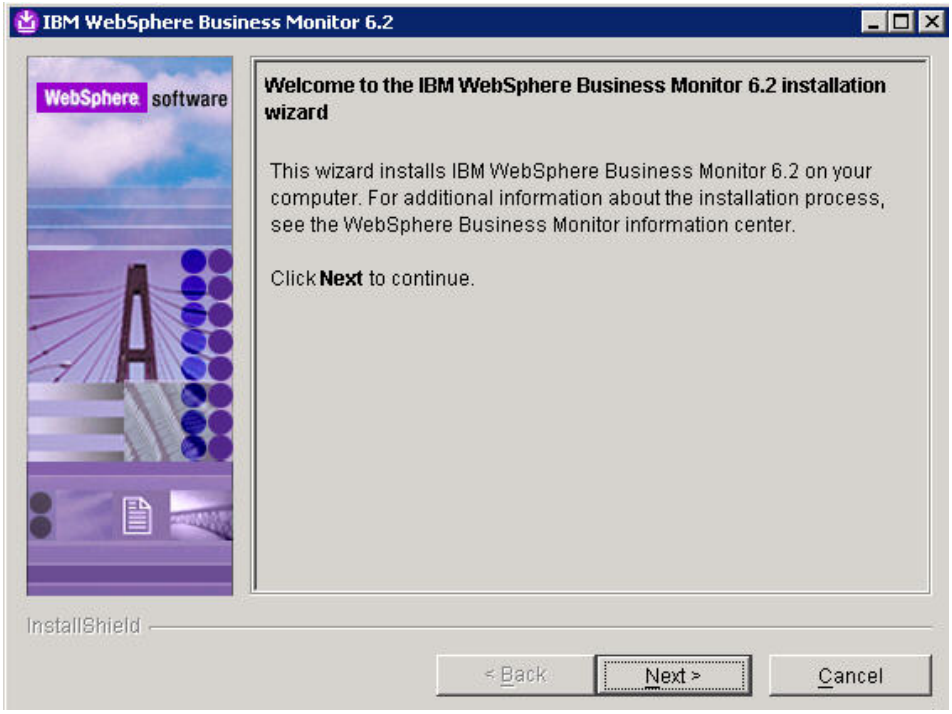
1. Run the downloaded launchpad.exe.



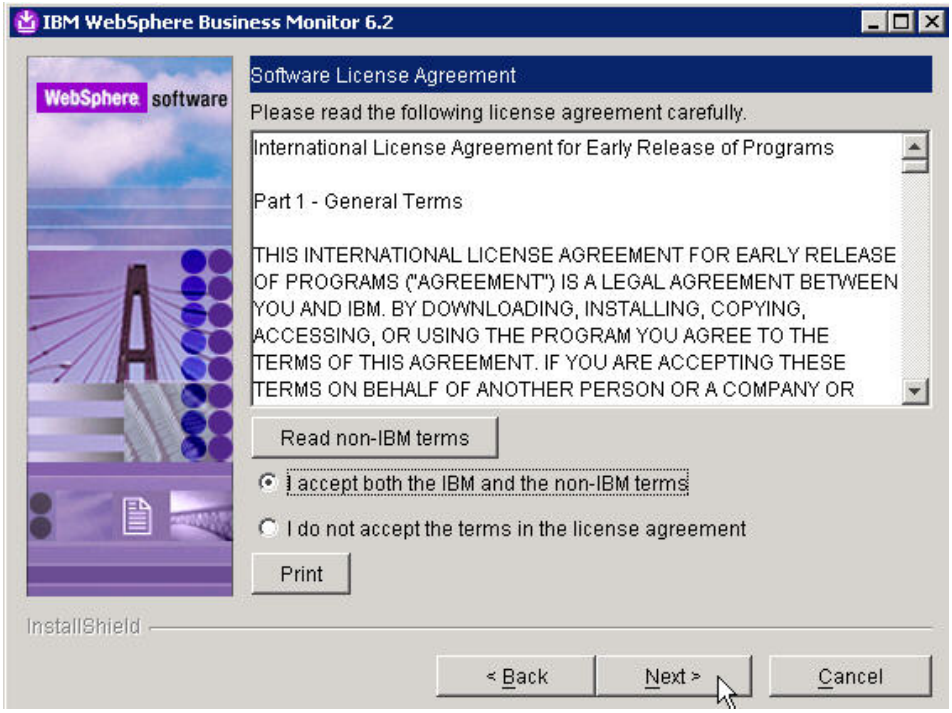
2. From the WebSphere Business Monitor Installation page, select **Launch the installation wizard for WebSphere Business Monitor**.



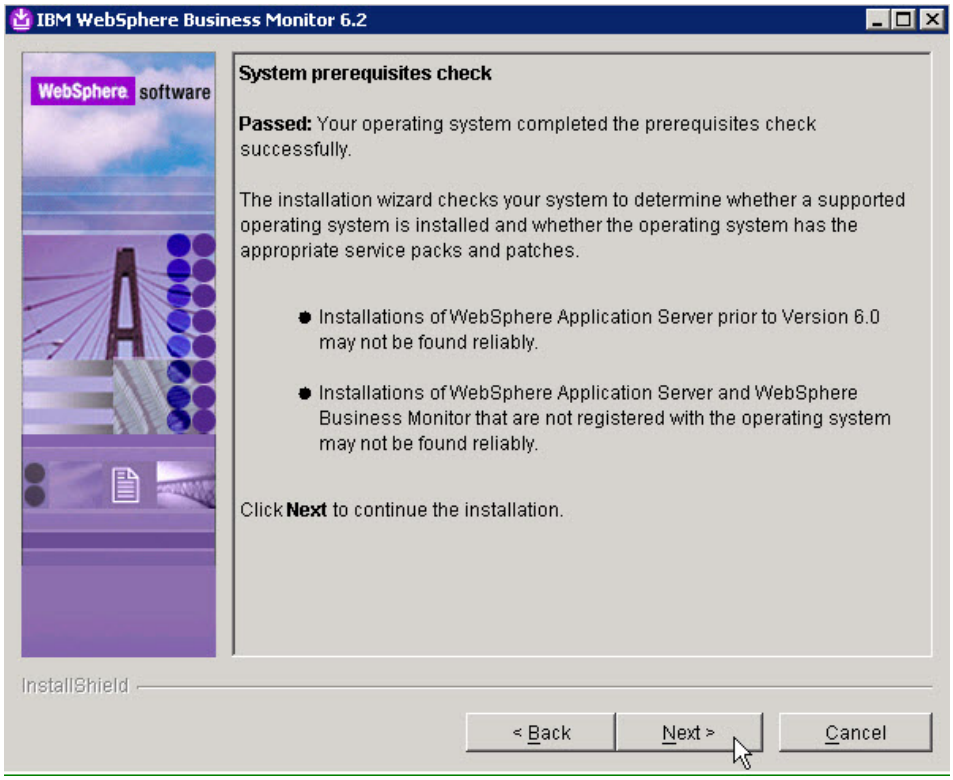
3. From the Welcome to the IBM WebSphere Business Monitor 6.2 Installation wizard page, click **Next** .



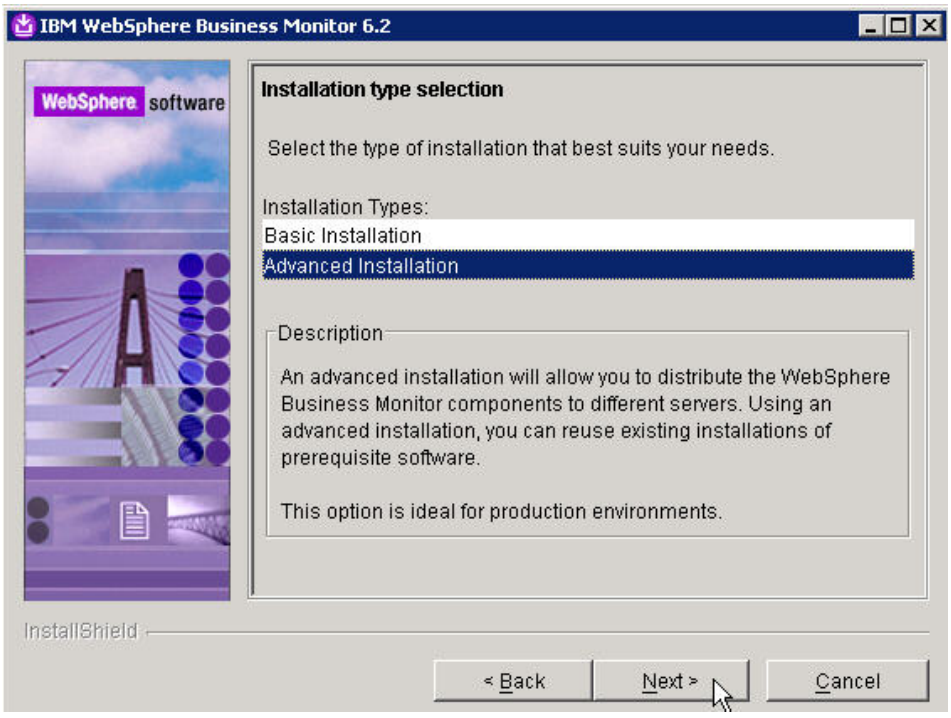
4. From the Software License Agreement page, accept the terms and click **Next**.



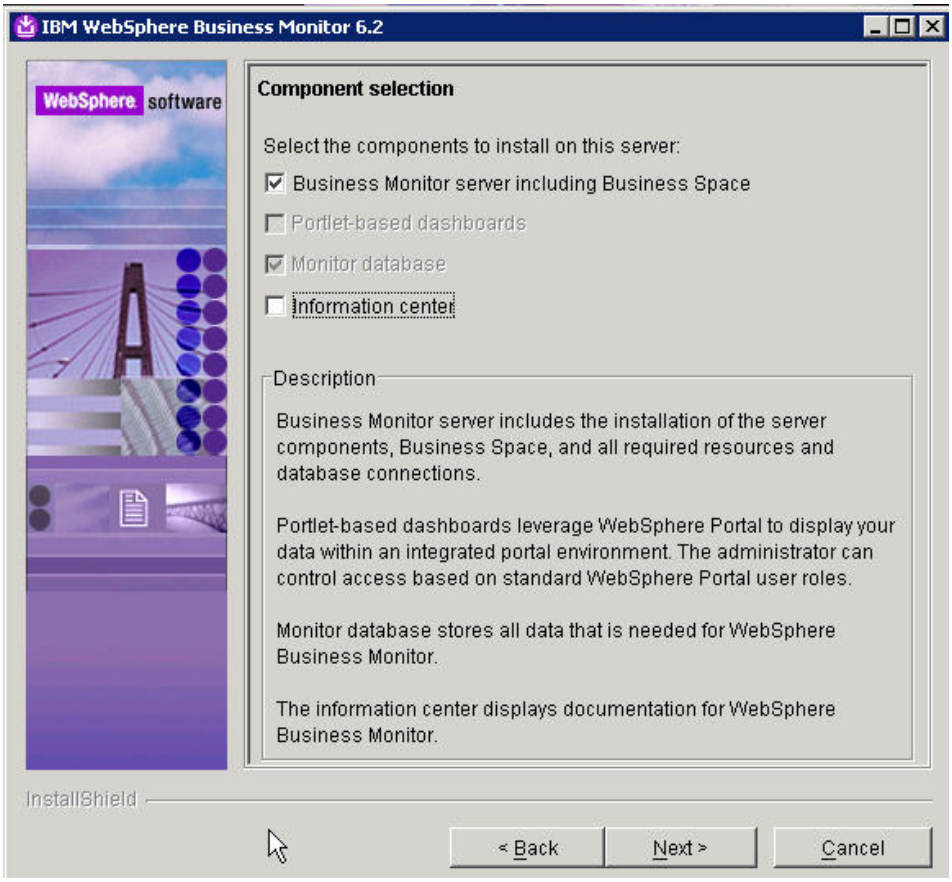
5. From the System prerequisites check page, click **Next**.



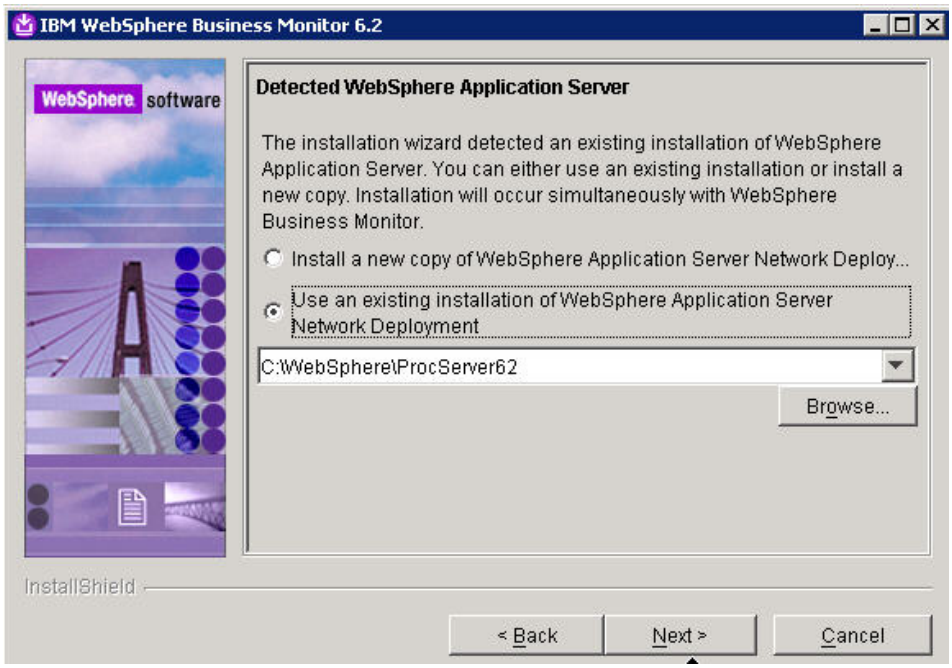
6. From the Installation type selection page, select **Advance Installation** and click **Next** .



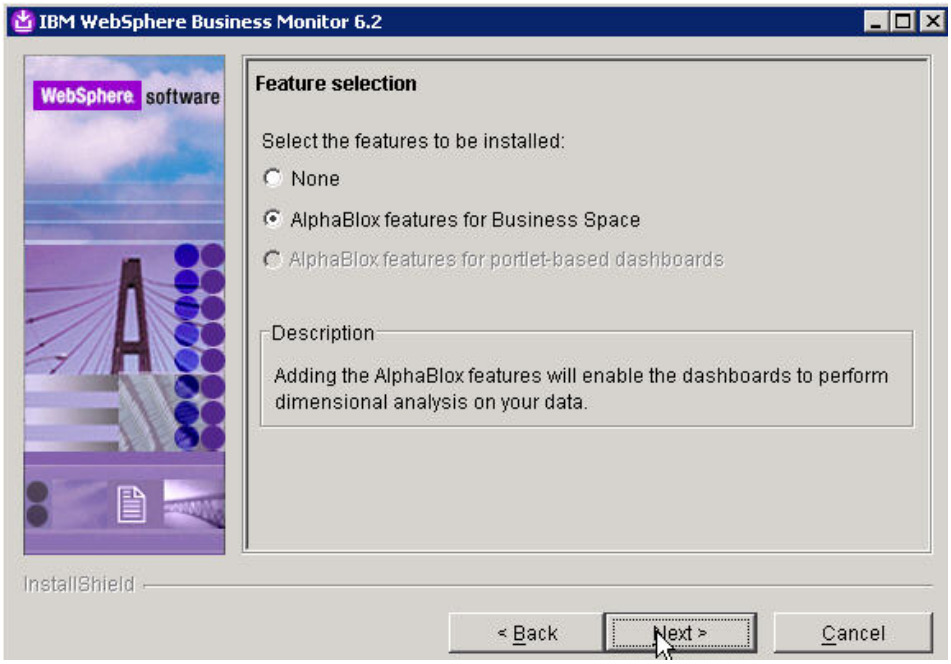
7. From the Component selection page, click **Next** .



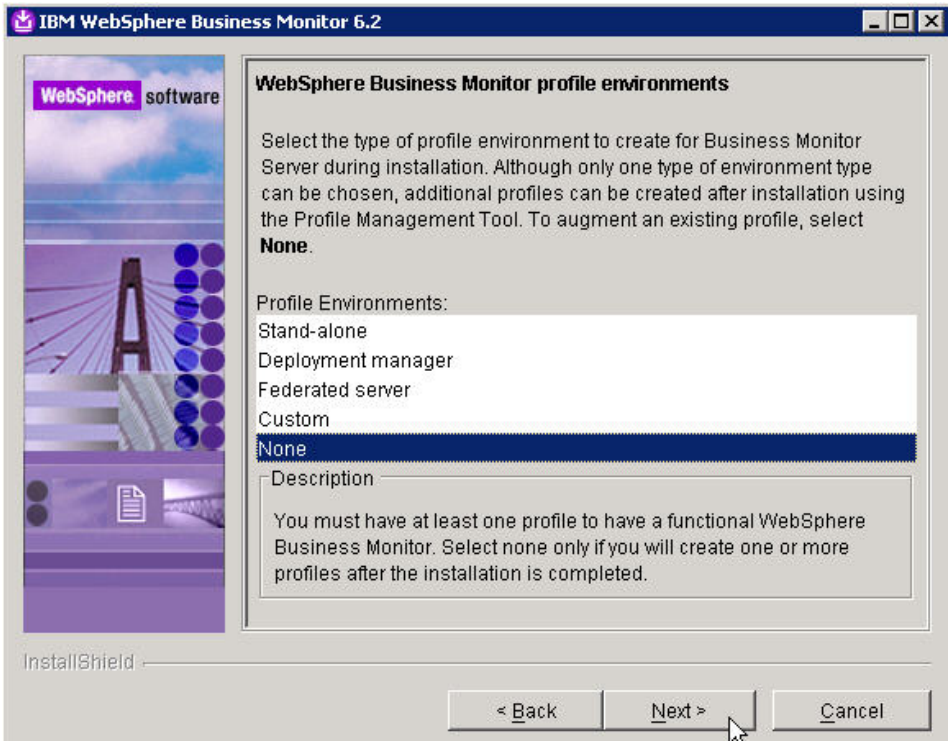
8. Select **Use an existing installation of WebSphere Application Server Network Deployment** and click **Next**.



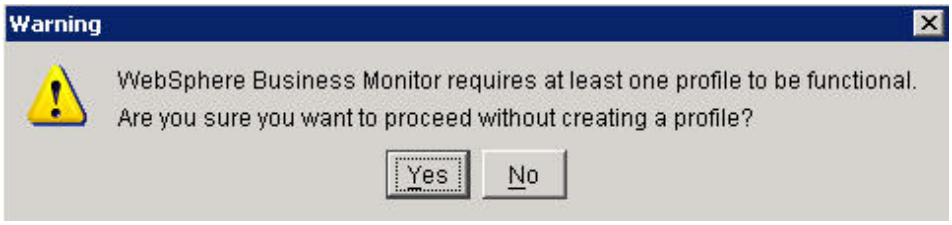
9. From the Features Selection page, click **Next**.



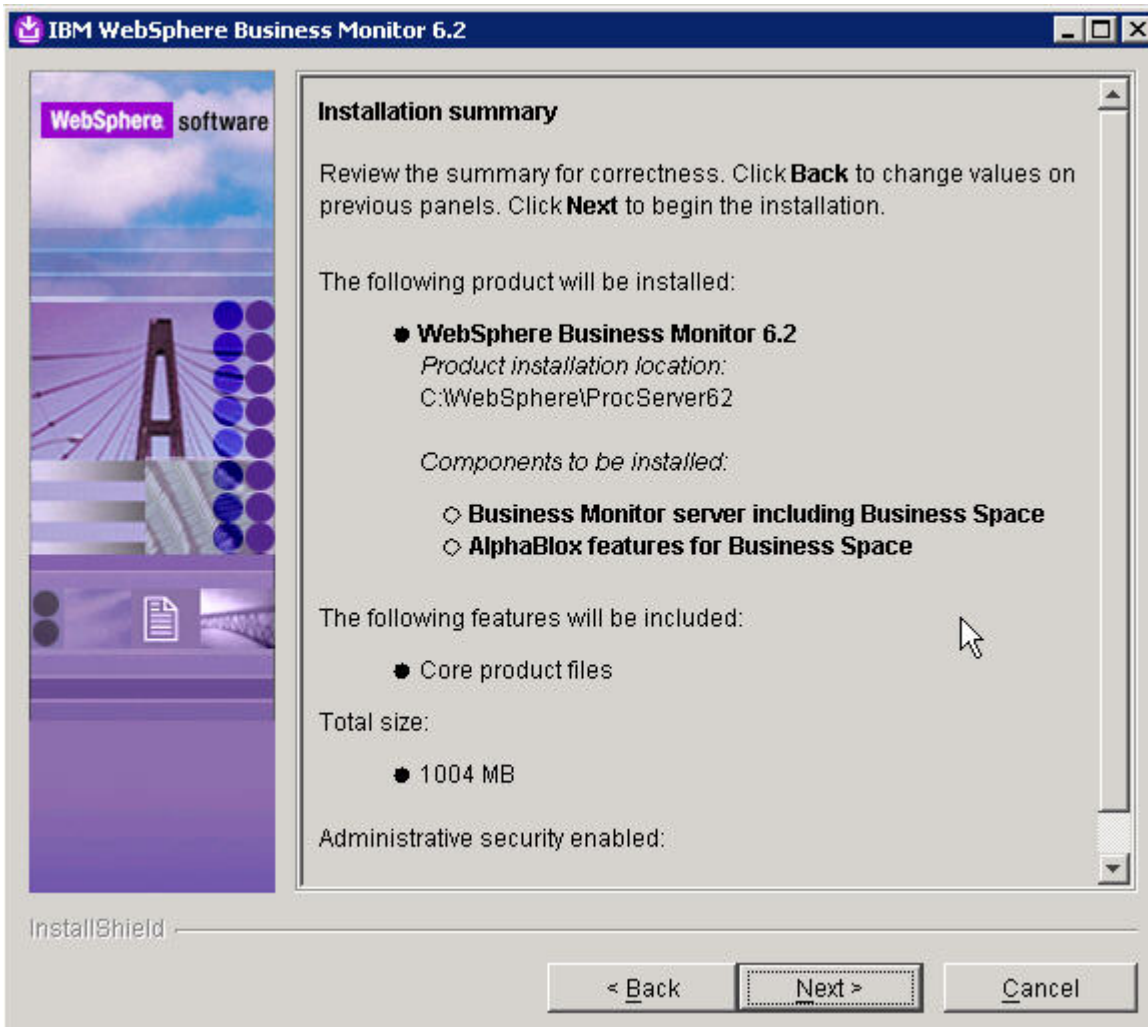
10. From the WebSphere Business Monitor profile environments page, select **None** and click **Next**.



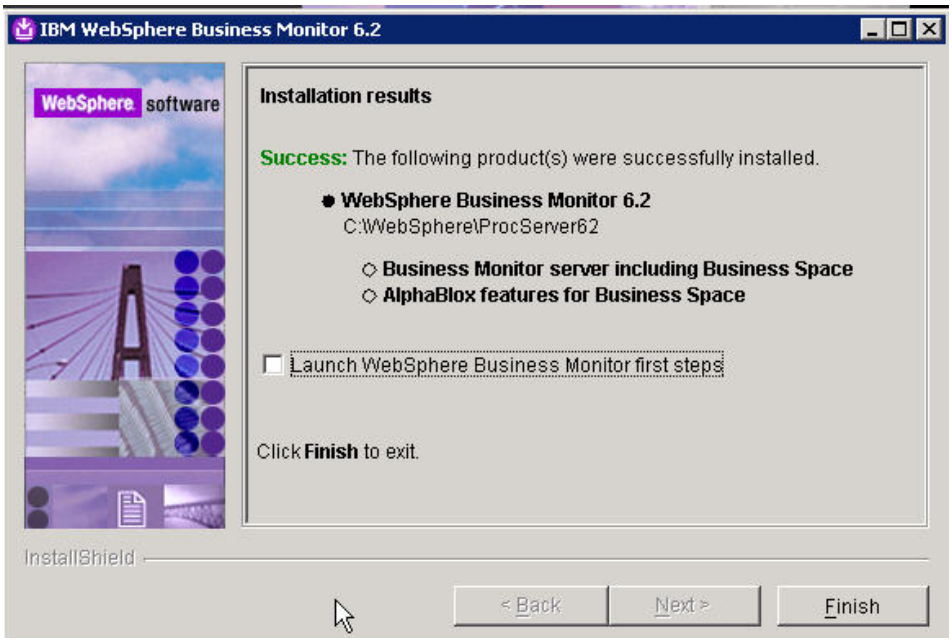
11. From the Warning dialog, click **Yes** .



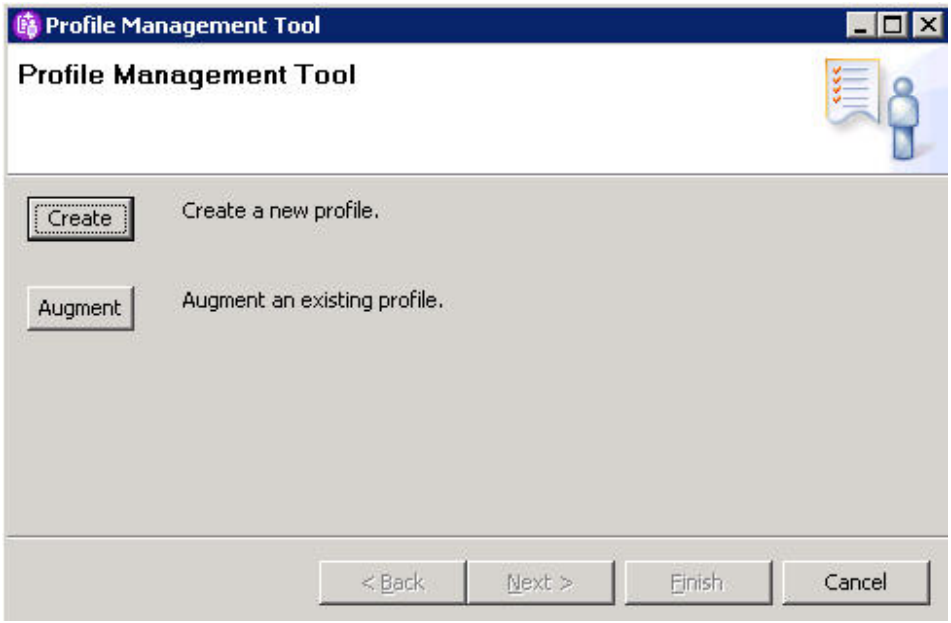
12. Review the information on the Installation Summary page and click **Next** .



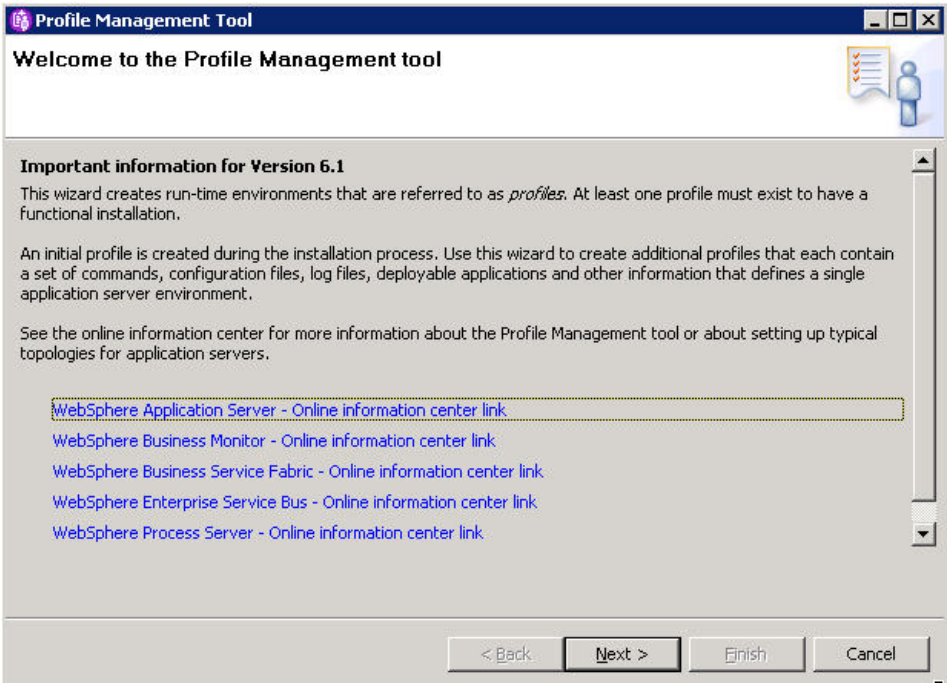
13. From the Installation Results page, uncheck **Launch the WebSphere Business Monitor First Steps console** and click **Finish**.



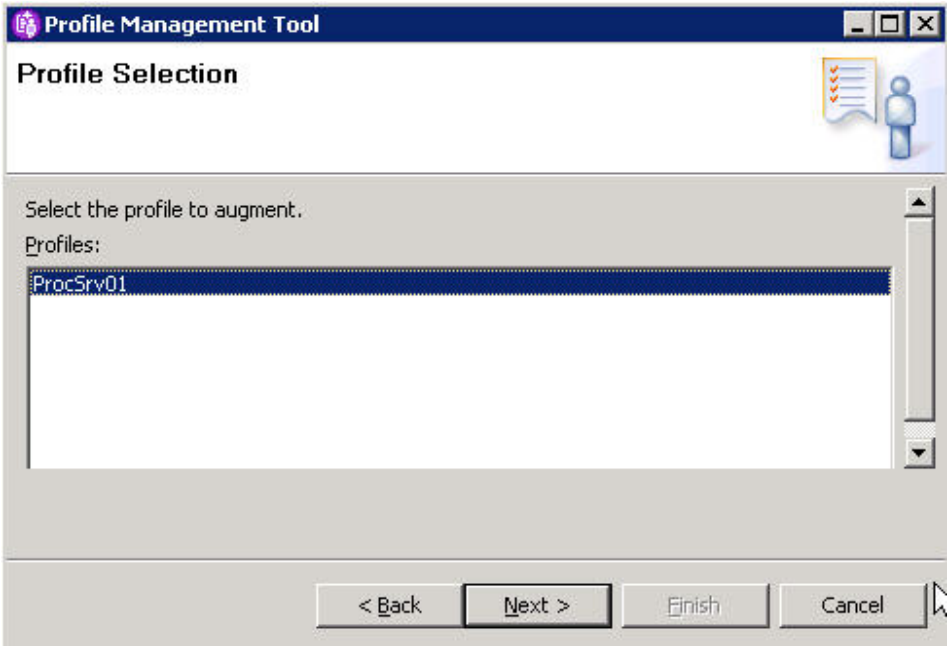
14. Launch the Profile Management Tool.
    <WASHOME>\bin\ProfileManagement directory launch PMT
15. From the Profile Management Tool page, click **Augment**.



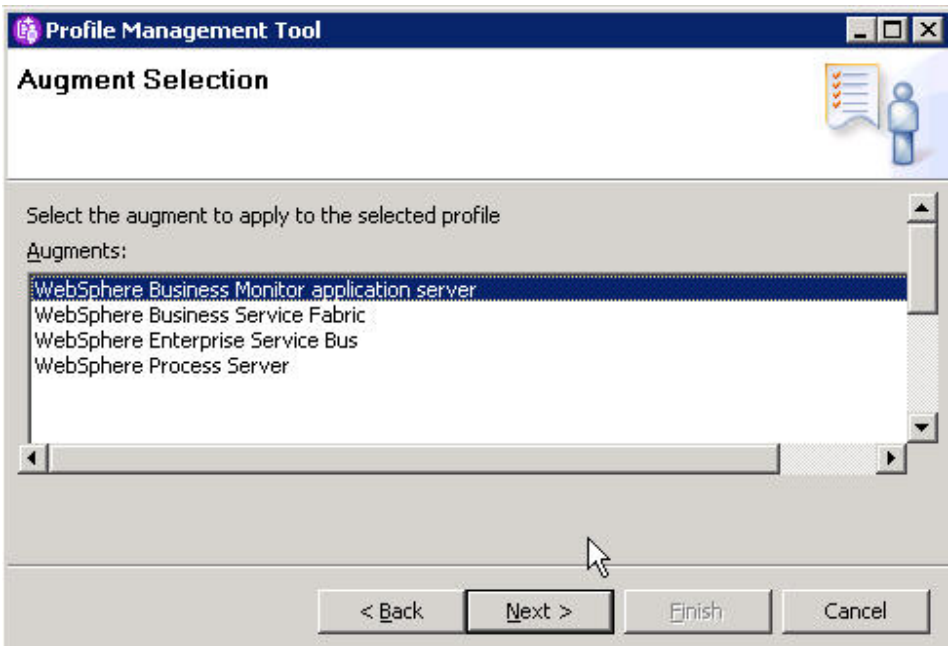
16. From the Welcome to the Profile Management tool page, click **Next**.



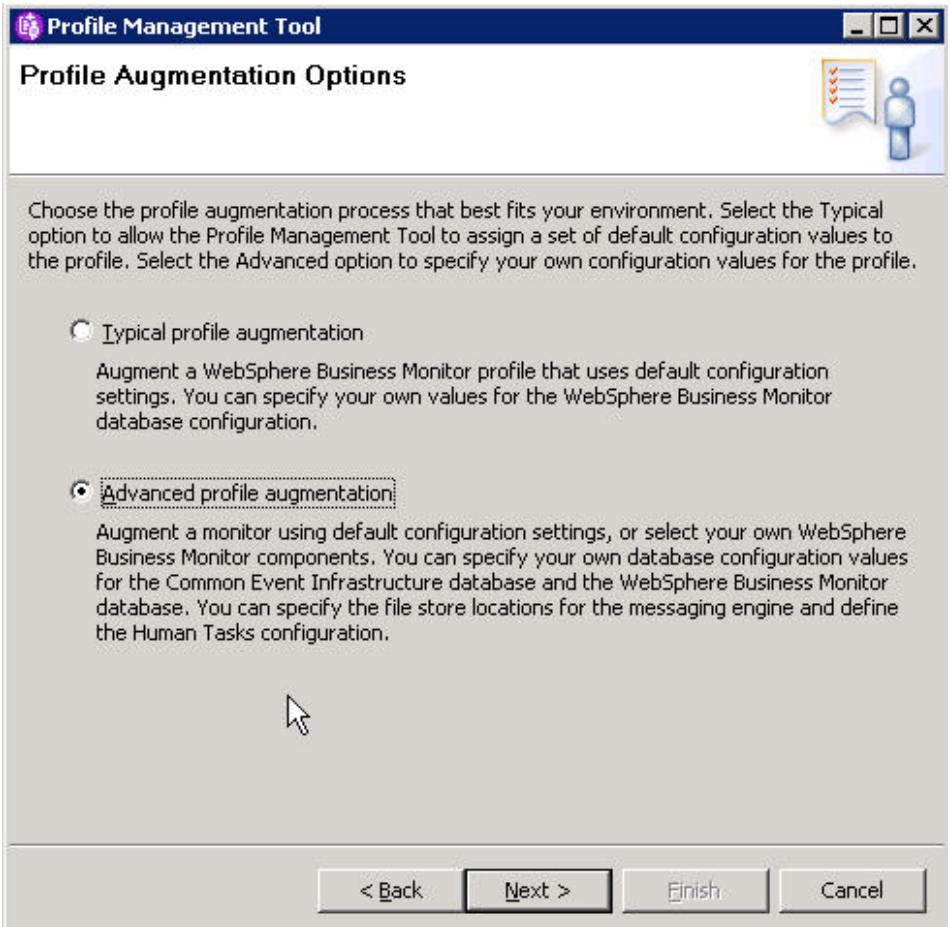
17. From the Profile Selection page, click **Next**.



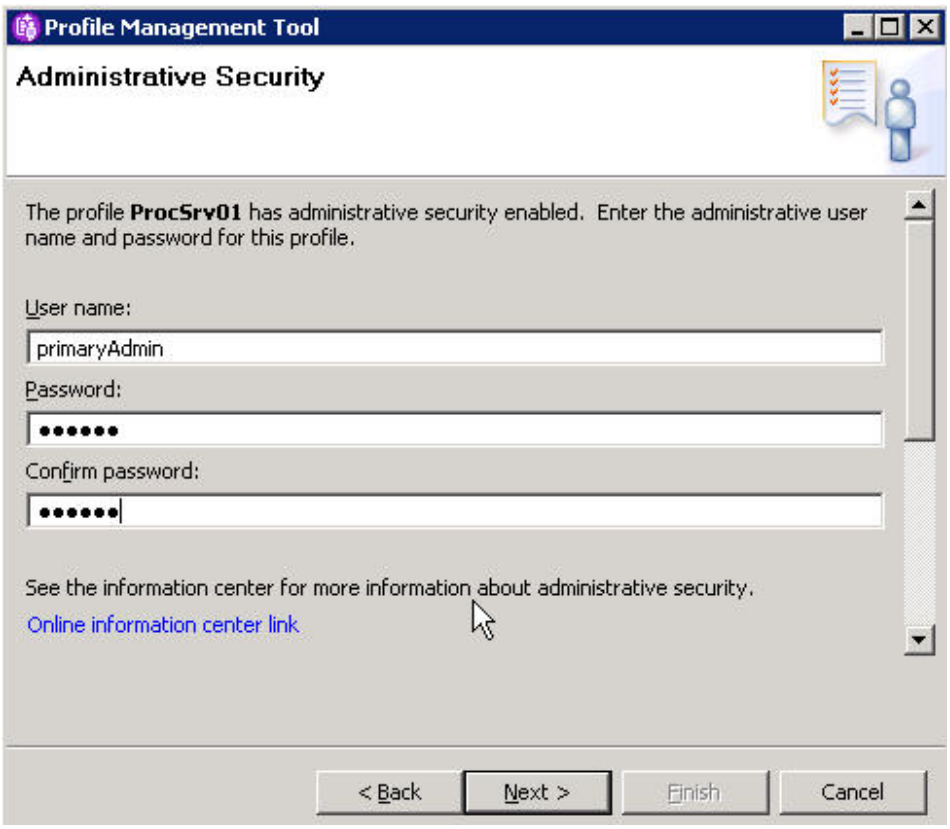
18. From the Augment Selection page, select **WebSphere Business Monitor application server** and click **Next**.



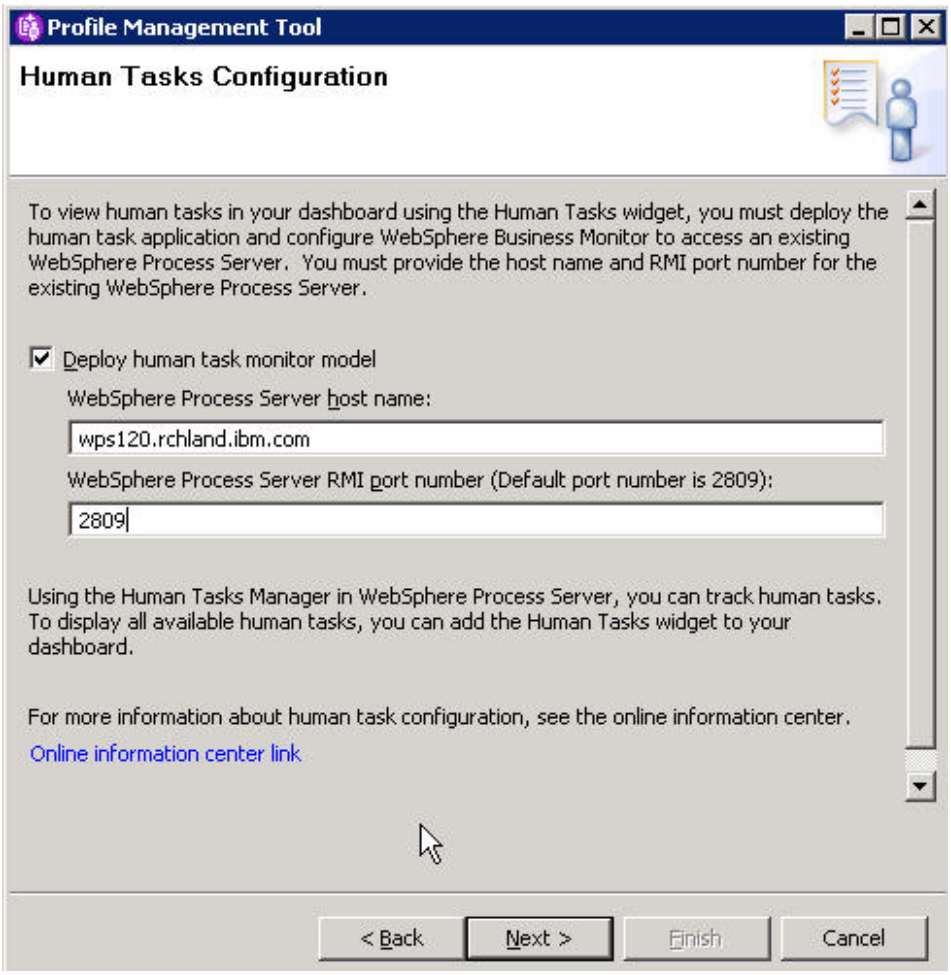
19. From the Profile Augmentation Options page, select **Advanced profile augmentation** and click **Next**.



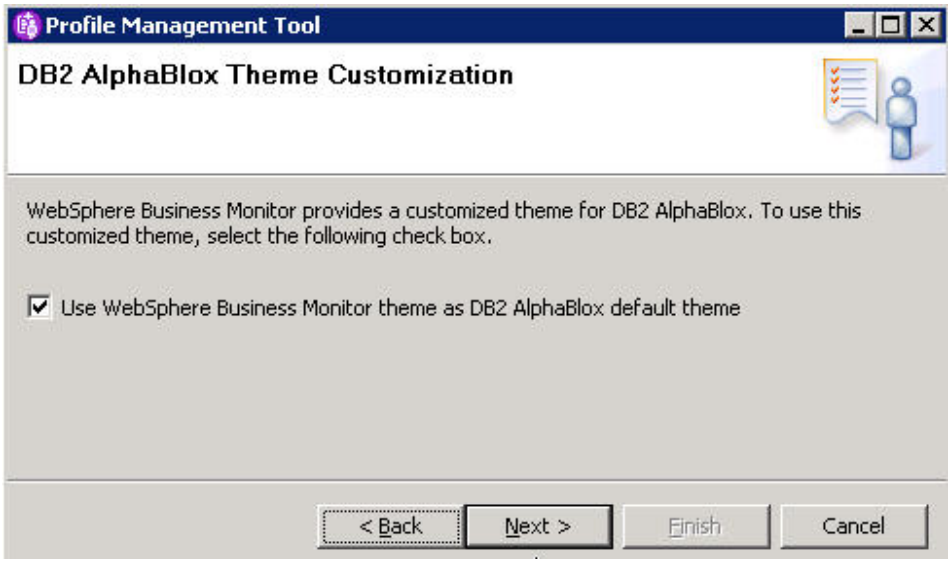
20. From the Administrative Security page, enter a user name and password and click **Next**.



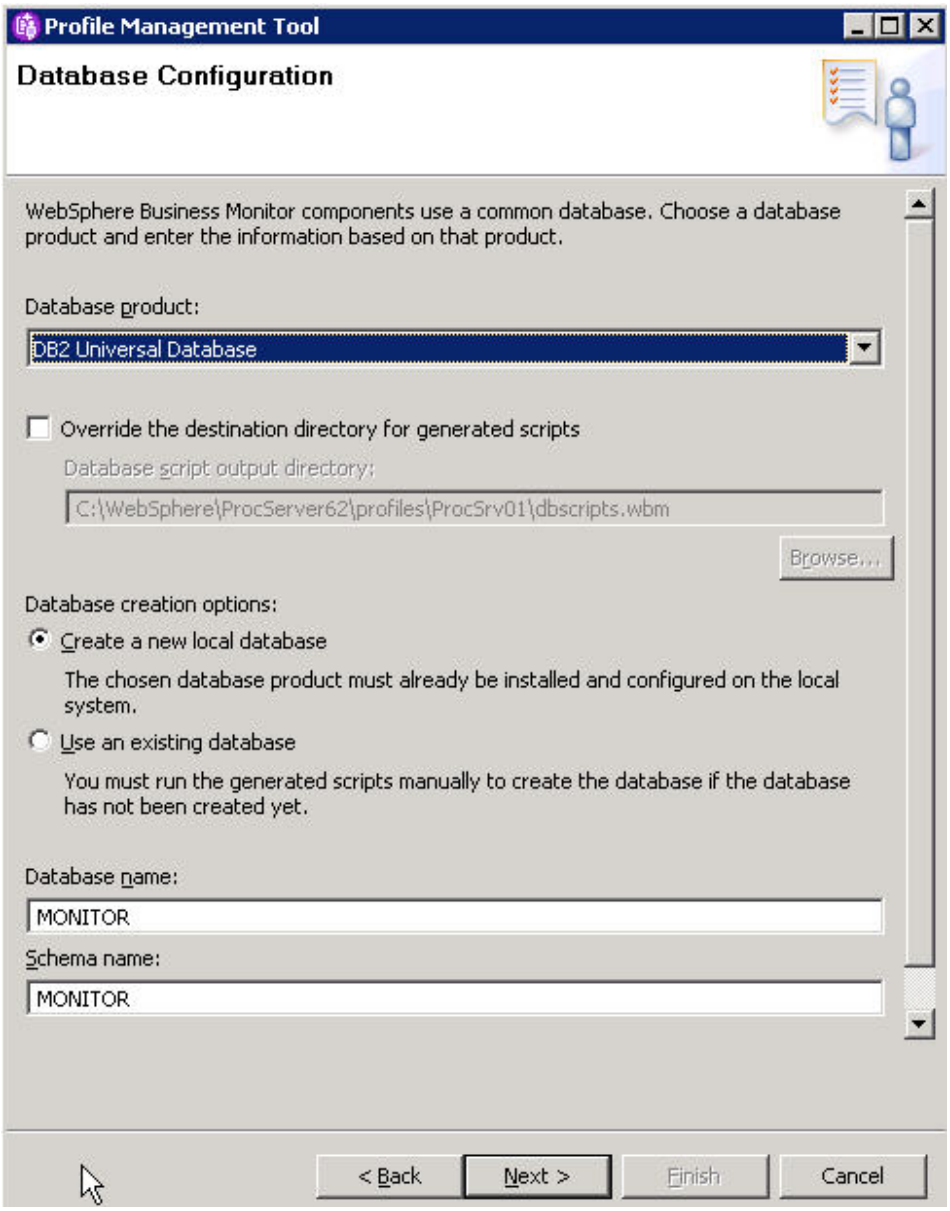
21. From the Human Tasks Configuration page, enter a host name a port number and click **Next**.



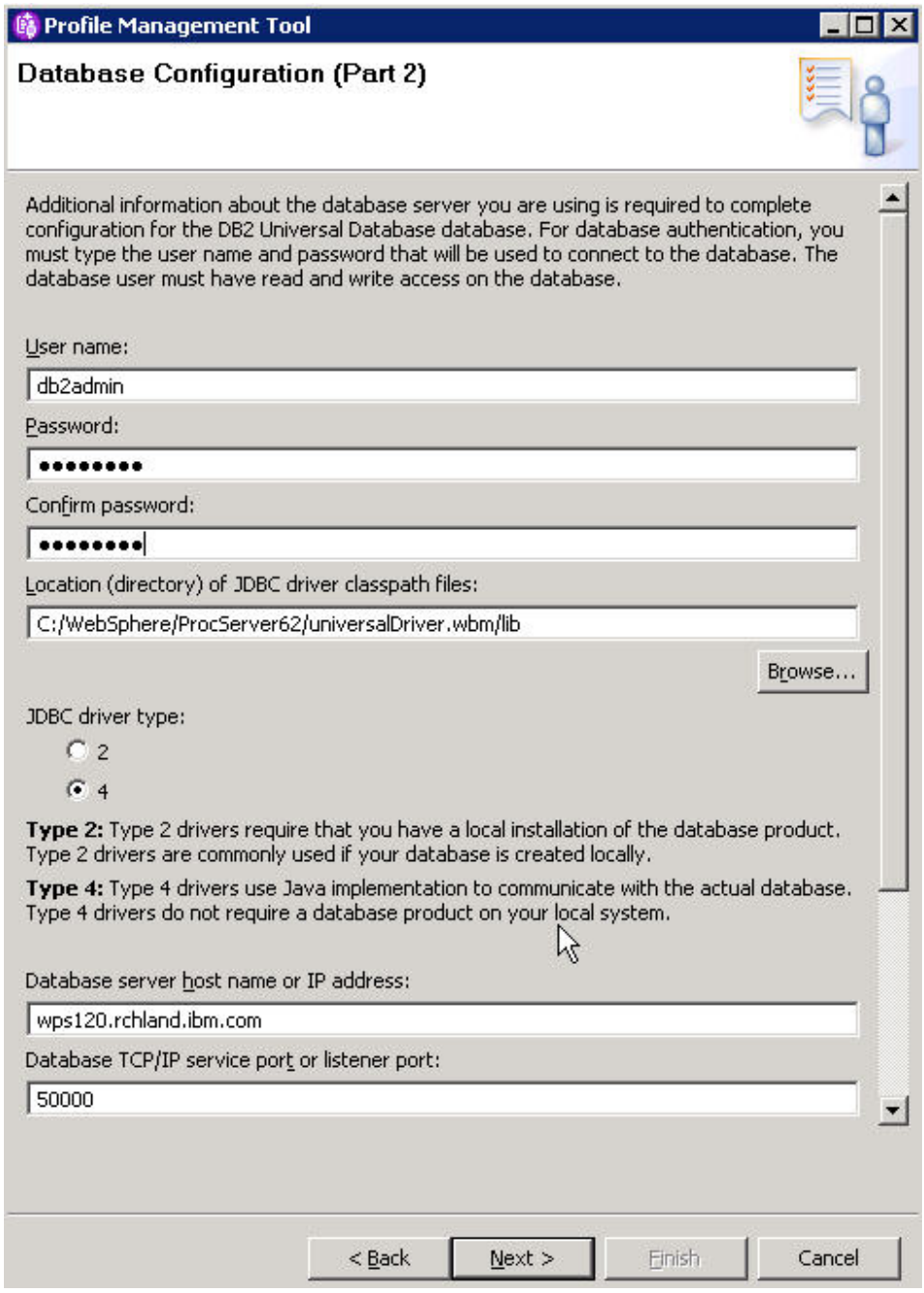
22. From the DB2 AlphaBlox Theme Customization page, click **Next**.



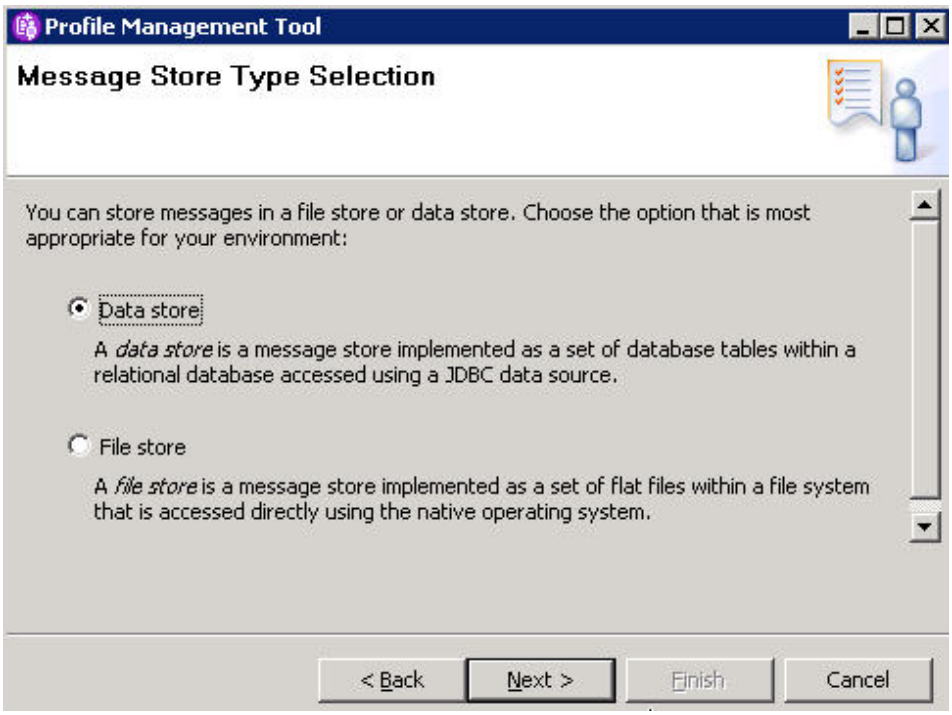
23. From the Database Configuration page, select **DB2 Universal Database** and click **Next**.



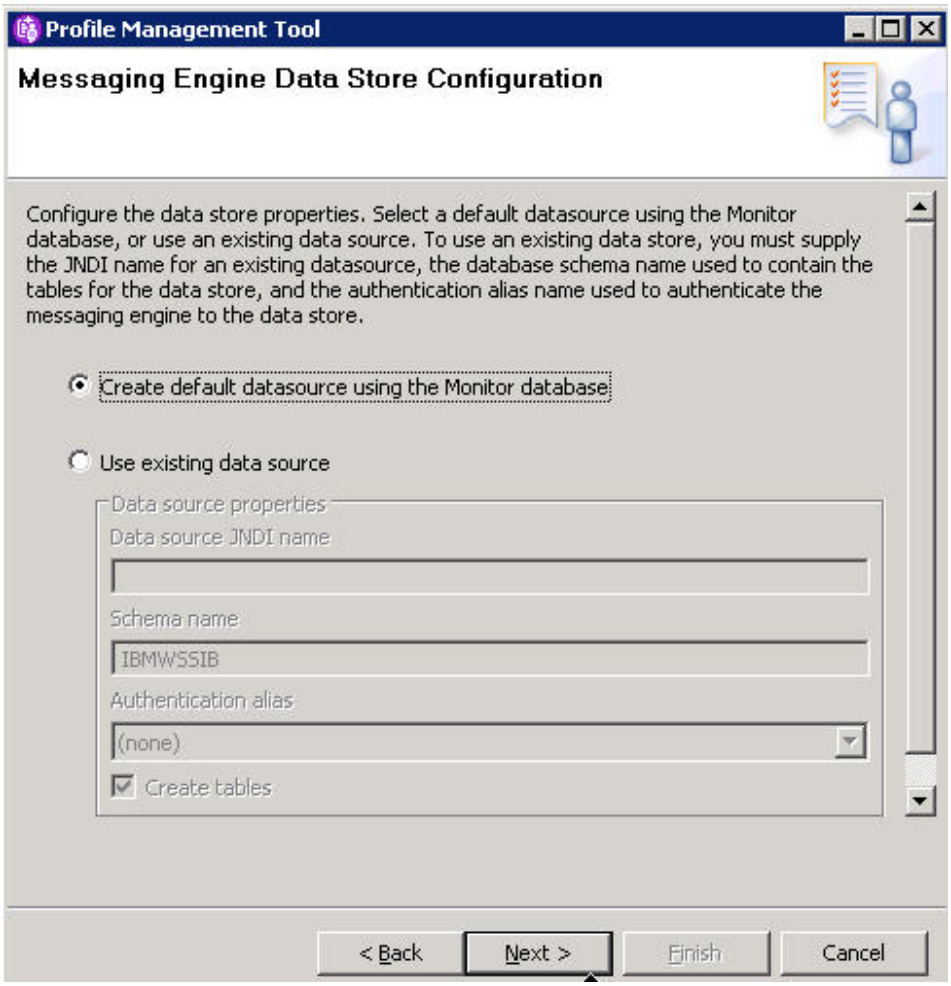
24. From the Database Configuration (Part 2) page, select enter a user name and password and click **Next**.



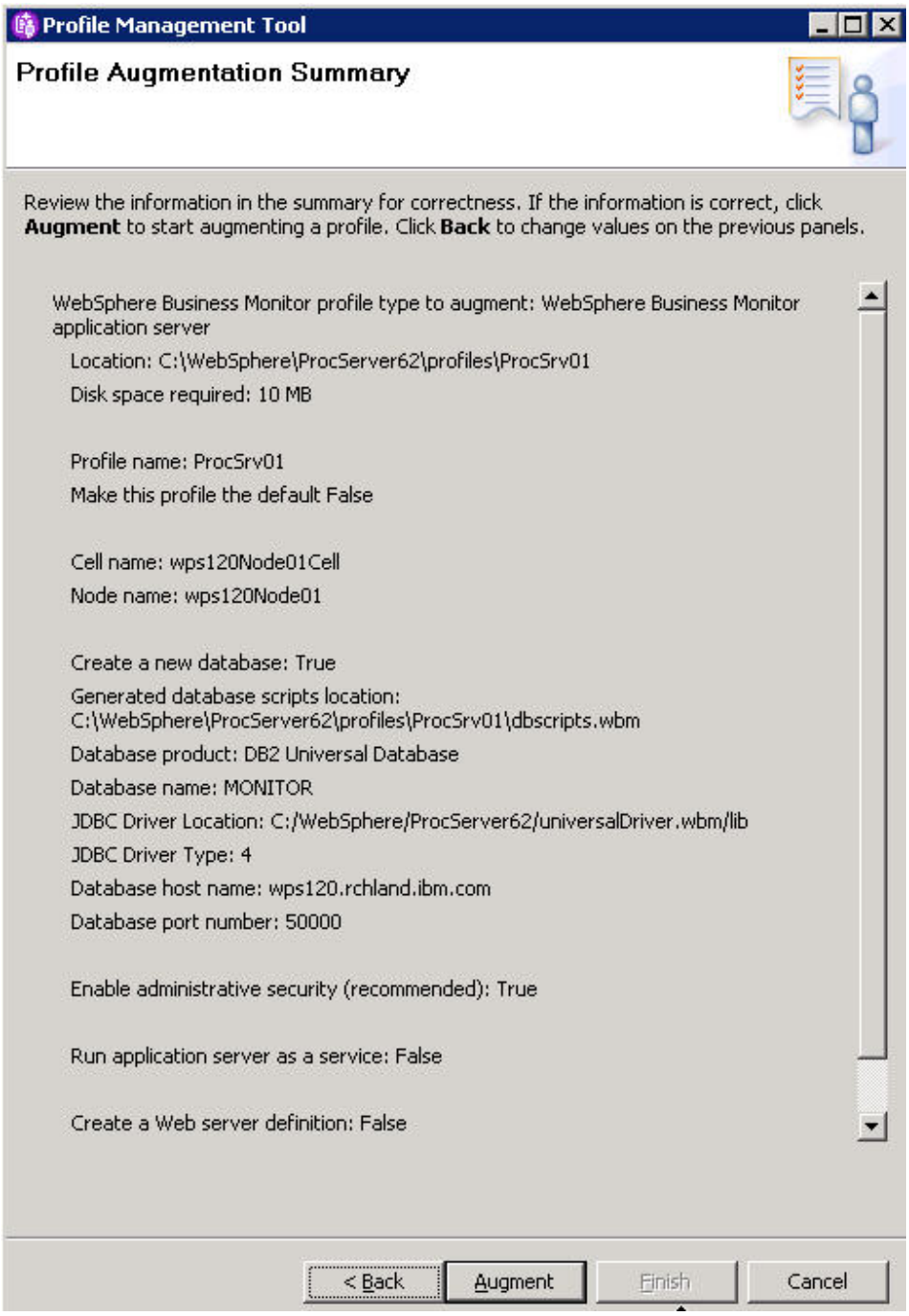
25. From the Message Store Type Collection page, click **Next**.



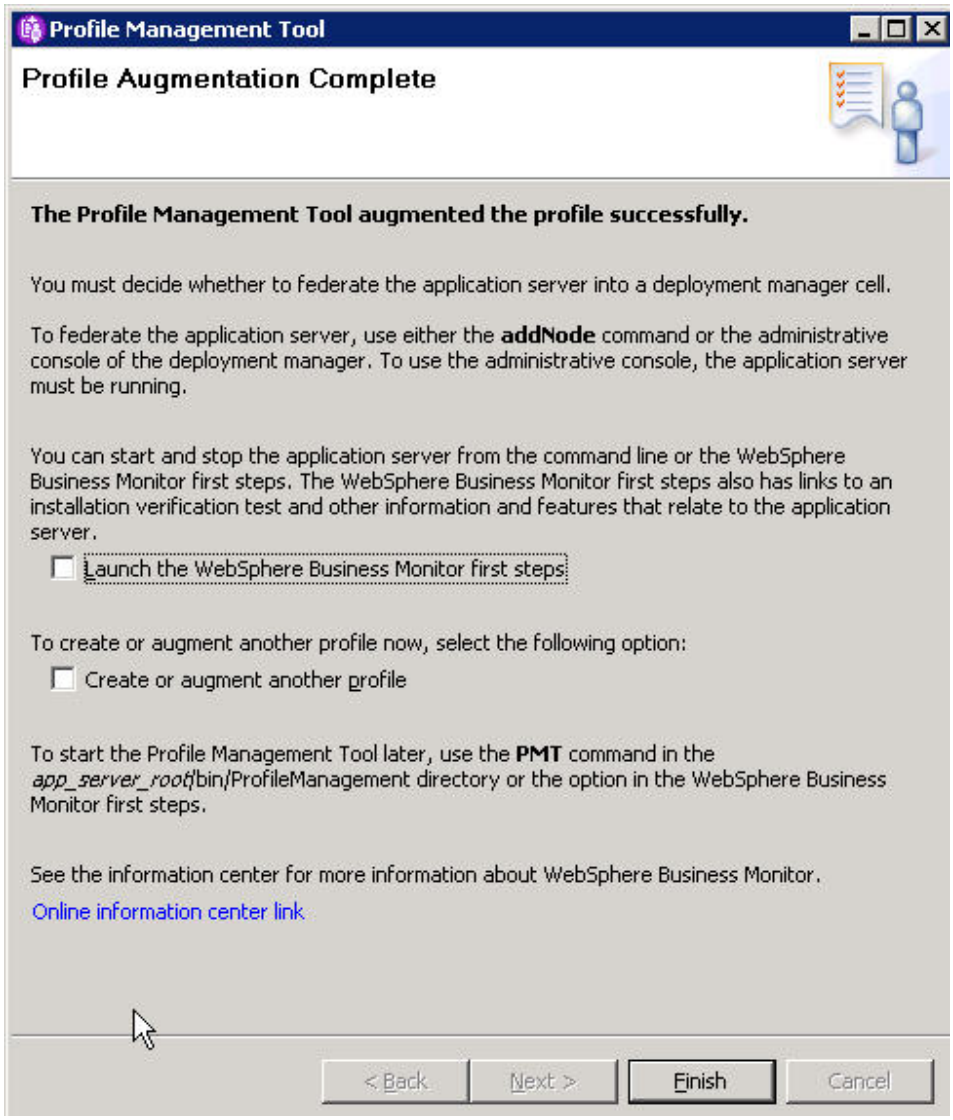
26. From the Messaging Engine Data Store Configuration page, click **Next**.



27. From the Profile Augmentation Summary page, click **Augment**.



28. From the Profile Augmentation Complete page, uncheck **Launch WebSphere Business Monitor first steps** and click **Finish**



Now you can verify the installation of WebSphere Business Monitor.

Verifying the installation of WebSphere Business Monitor 6.2

Check settings and behavior to ensure the software is running.

Verification step instructions provides quick understanding of what to check to make sure the software is running properly.

Start browser and enter WebSphere administrative console, like `http://hostname:port/ibm/console`

For example: `http://localhost:9060/ibm/console`.

Several WebSphere Business Monitor applications are installed, and all have been started.

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