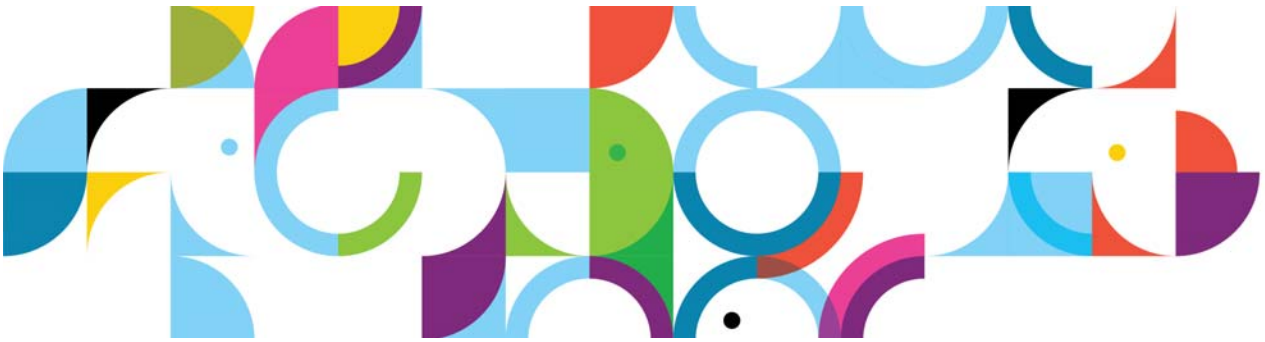
IBM Connections 4 Public Deployment Scenarios

Deployment Scenarios

ERC 1.0



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IBM Connections 4: PDS for Tivoli Access Manager and SPNEGO

About the author

Xiao Guang (Roland) Luo has more than five years' experience on system verification testing (SVT). The author is familiar with Connections product and other ICS portfolio, including installing, configuring, administration, use, and troubleshooting issues. Roland can be reached at luoxg@cn.ibm.com.

Pre-requirements and overview

Before you start the steps, make sure:

- WebSphere Application Server, IBM HTTP Server, and plug-in are installed and configured properly and patched with correct fix pack and test fix.
- LDAP is properly configured on WebSphere Application Server.
- HTTP server with SSL is enabled.
- SQL Server 2008 R2 and installed and configured properly.
- A shared folder is configured on Deployment Manager and all nodes.

Contents

1. Pre-installation tasks

Create databases with DB wizard

__ 1. Extract `IBM_Connections_4.0_wizards_win` to any folder on the box where Tivoli Directory Integrator is installed.

__ 2. Start database wizard: `dbWizard.bat` and click **Next**

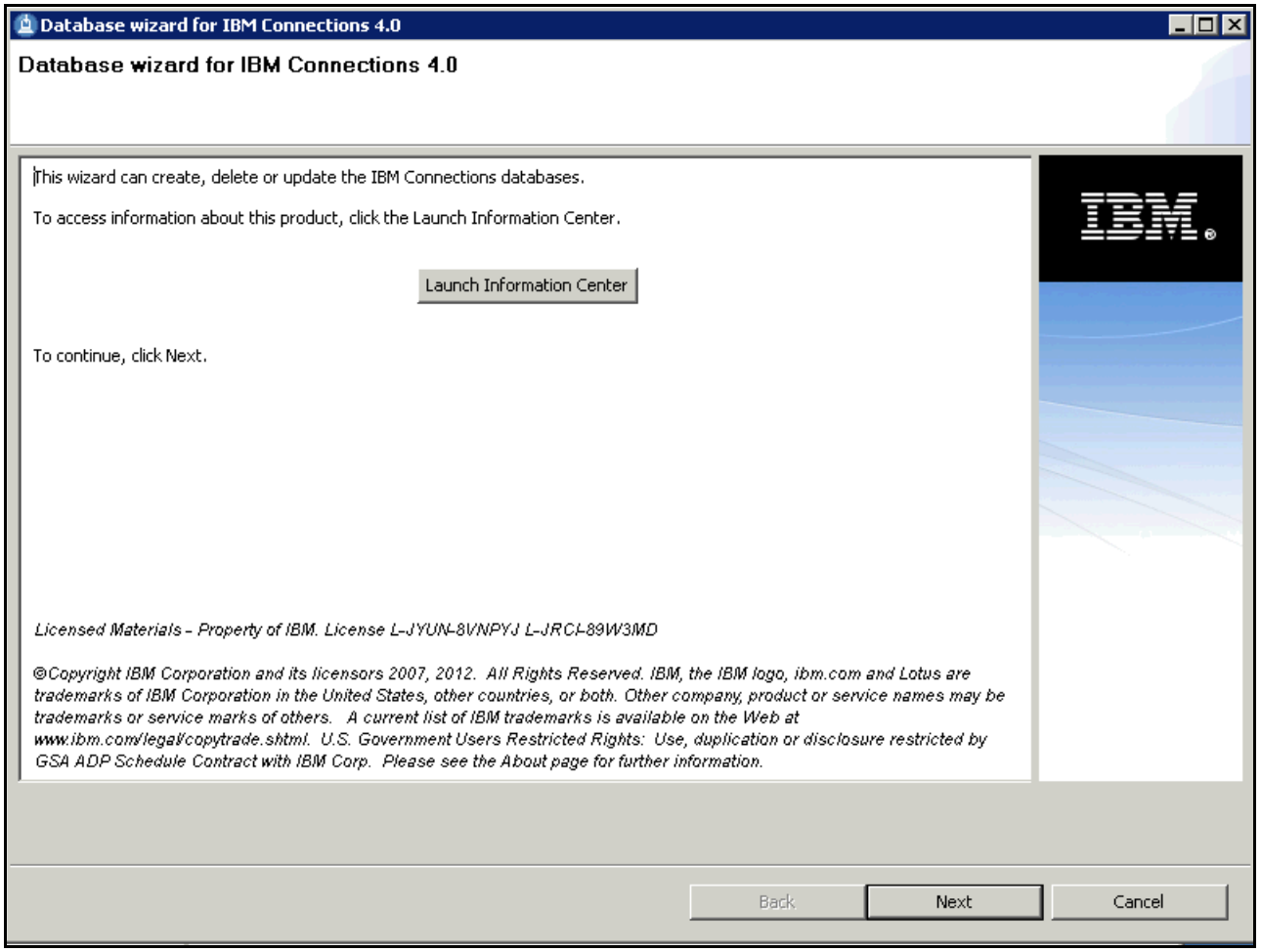

Figure 1. Database wizard for IBM Connections 4.0

__ 3. Choose **Create** and click **Next**.

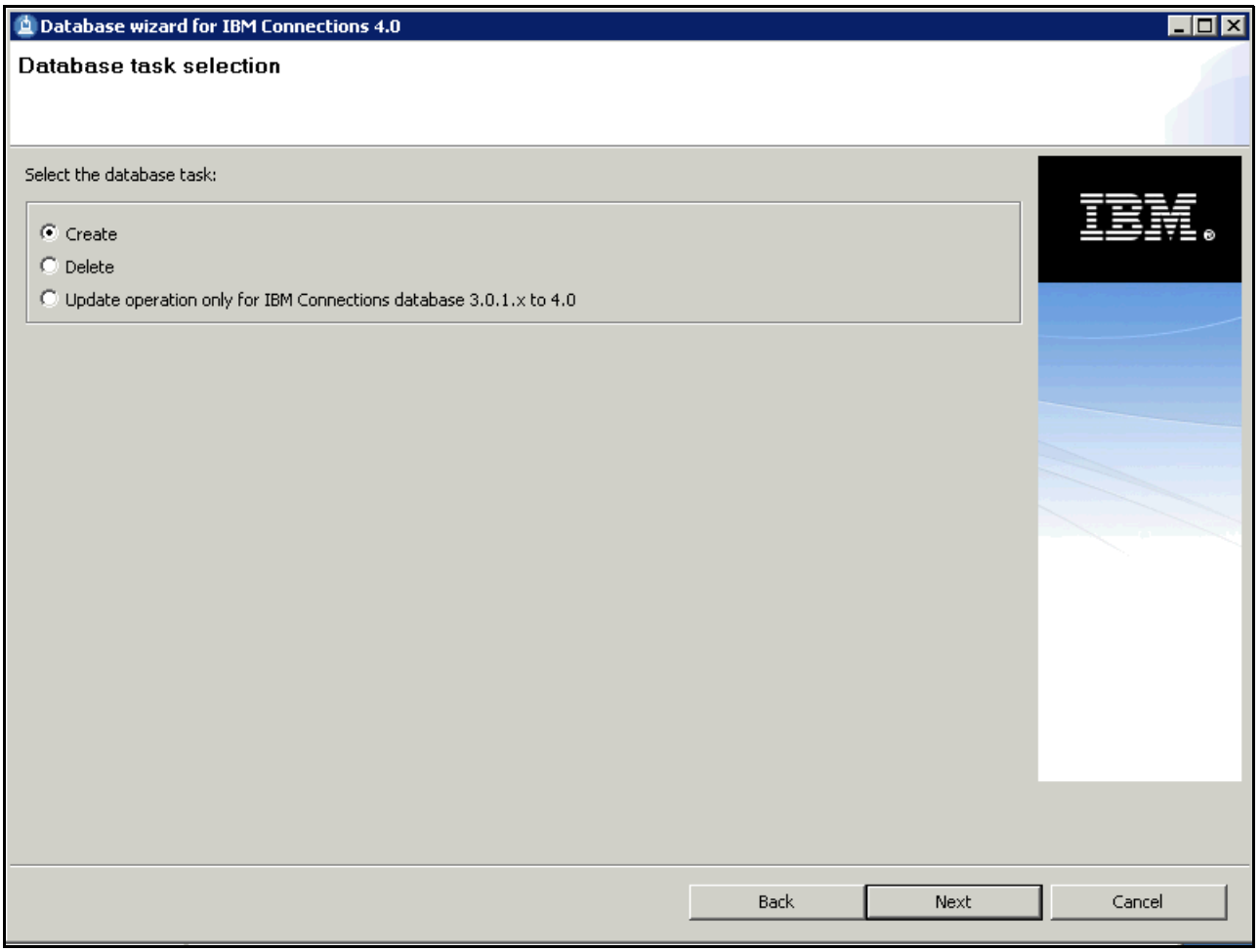

Figure 2. Database wizard for IBM Connections 4.0: Database task selection

__ 4. Choose **SQL Server Enterprise Edition** and specify database installation location and database instance. Click **Next**.

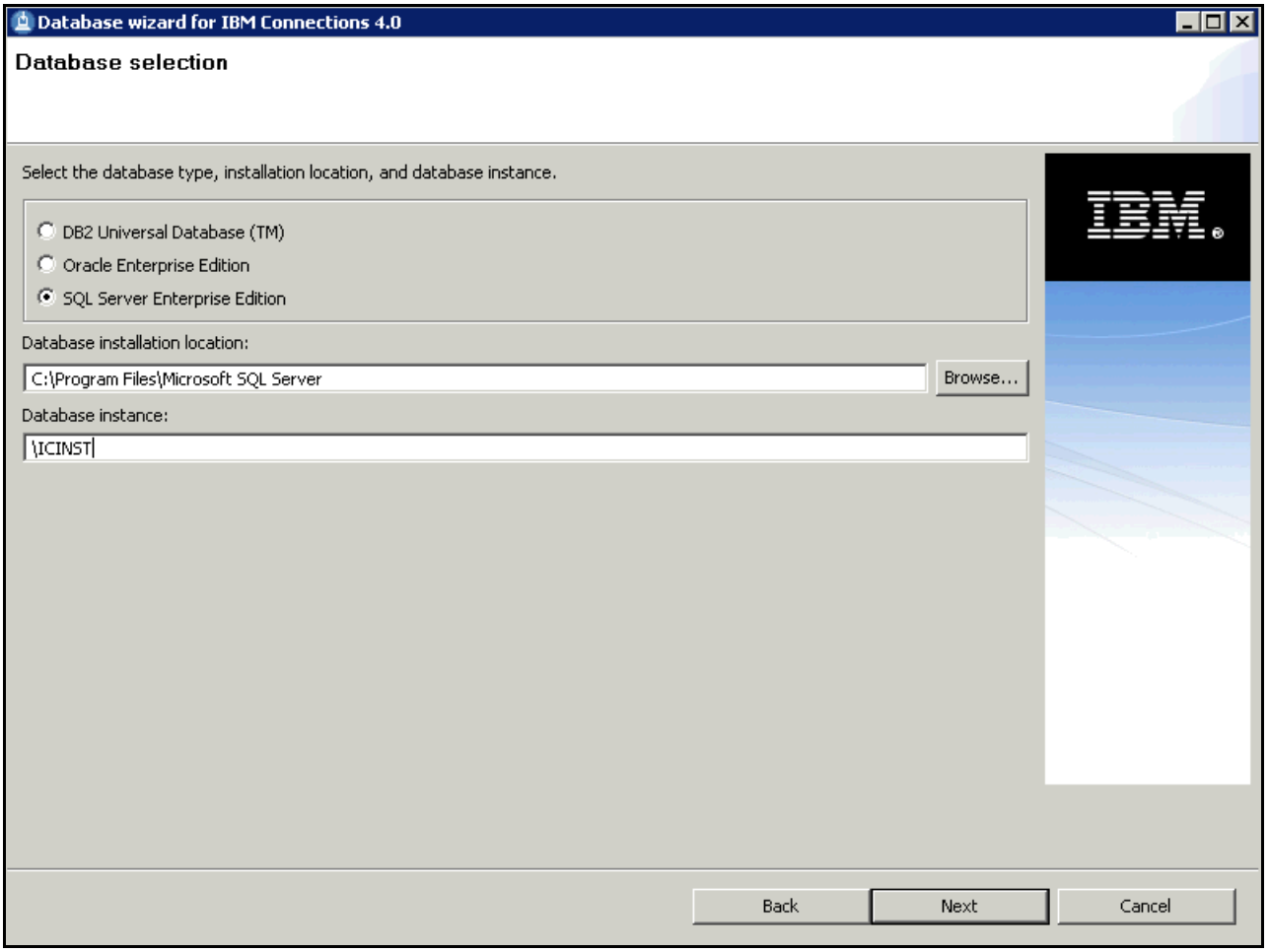

Figure 3. Database wizard for IBM Connections 4.0: Database selection

__ 5. Select all components and click **Next**.

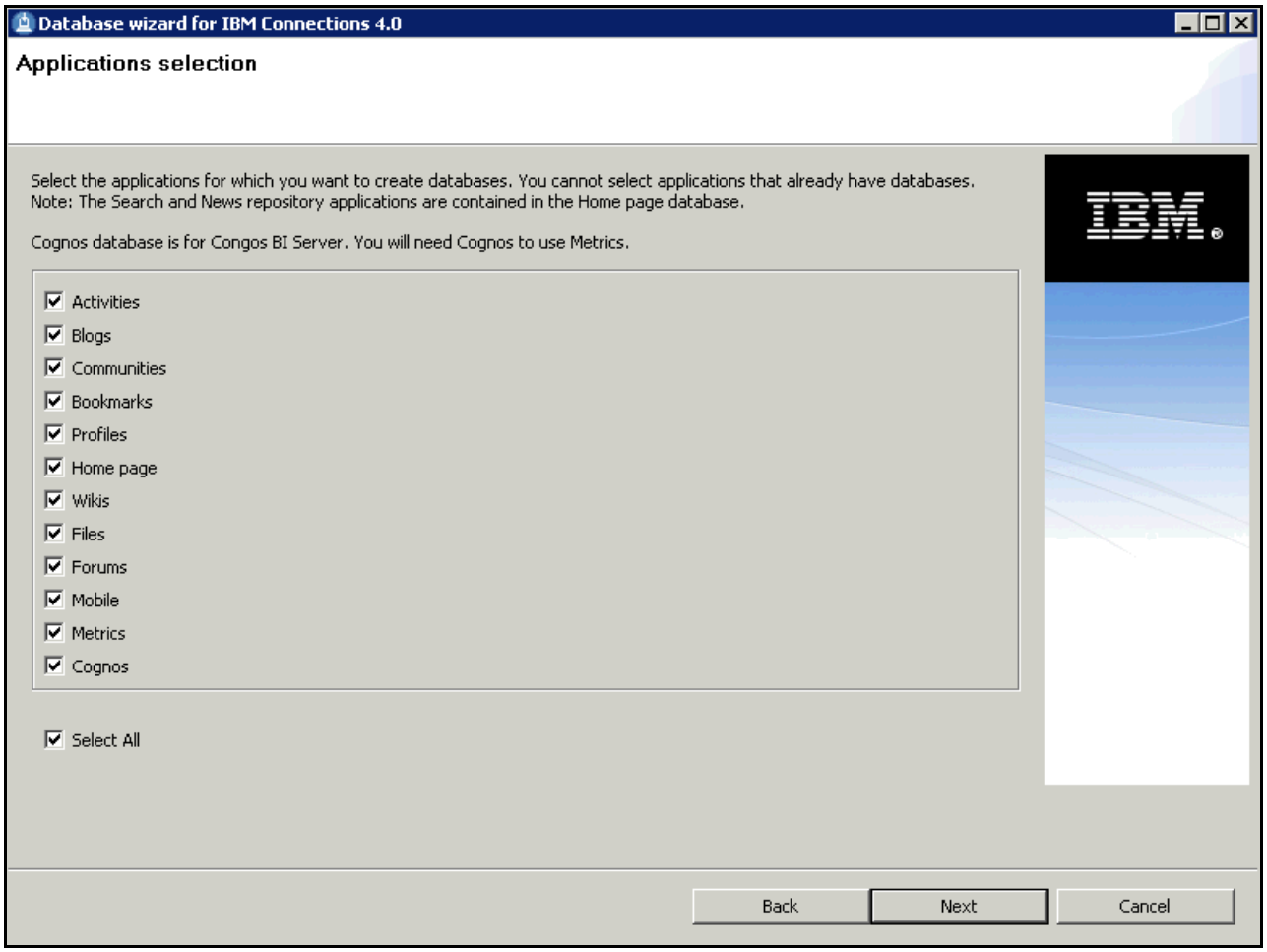

Figure 4. Database wizard for IBM Connections 4.0: Applications selection

__ 6. Specify the password and click **Next**.

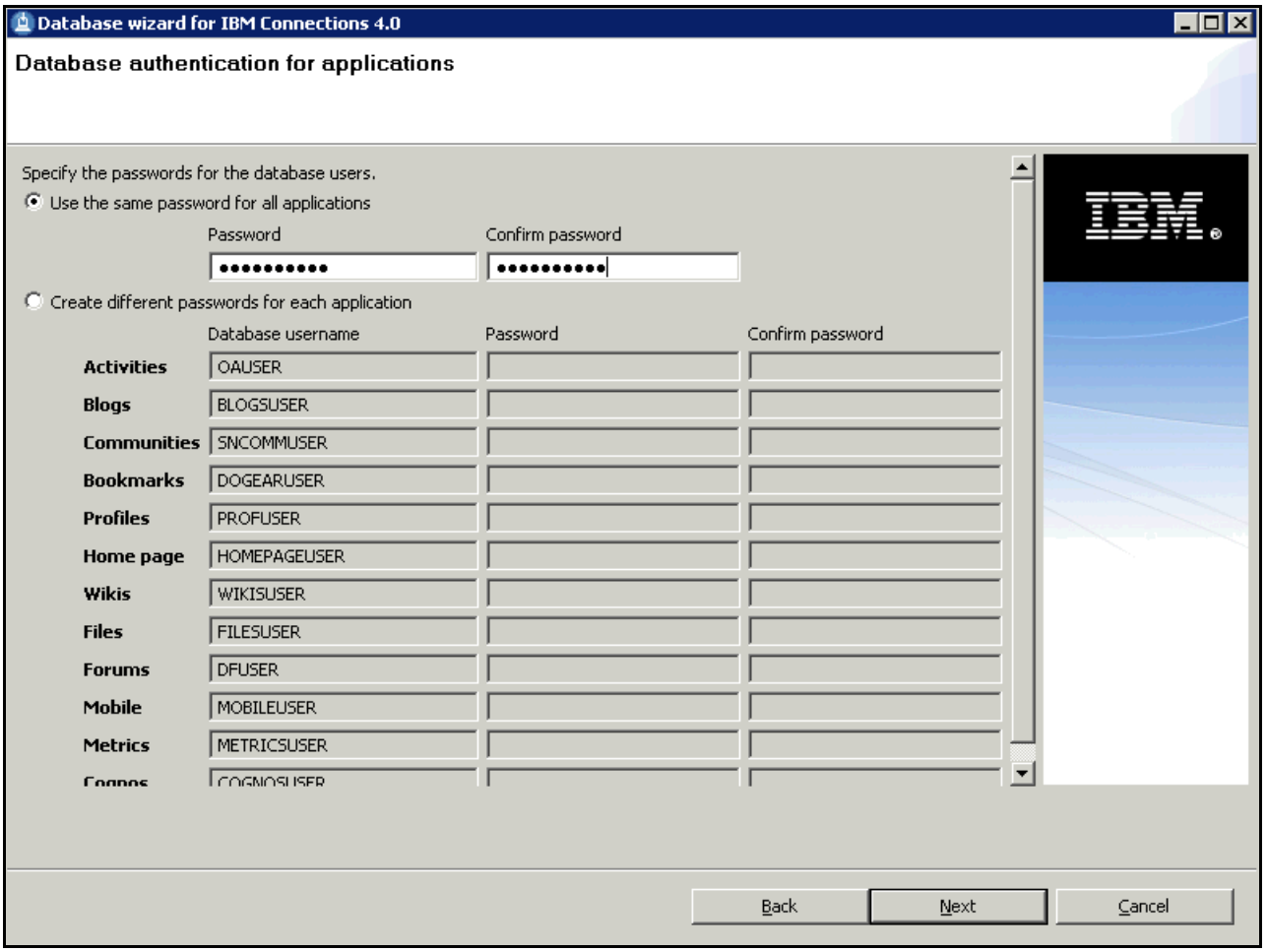

Figure 5. Database wizard for IBM Connections 4.0: Database authentication for applications

__ 7. Specify the DB file location and click **Next**.

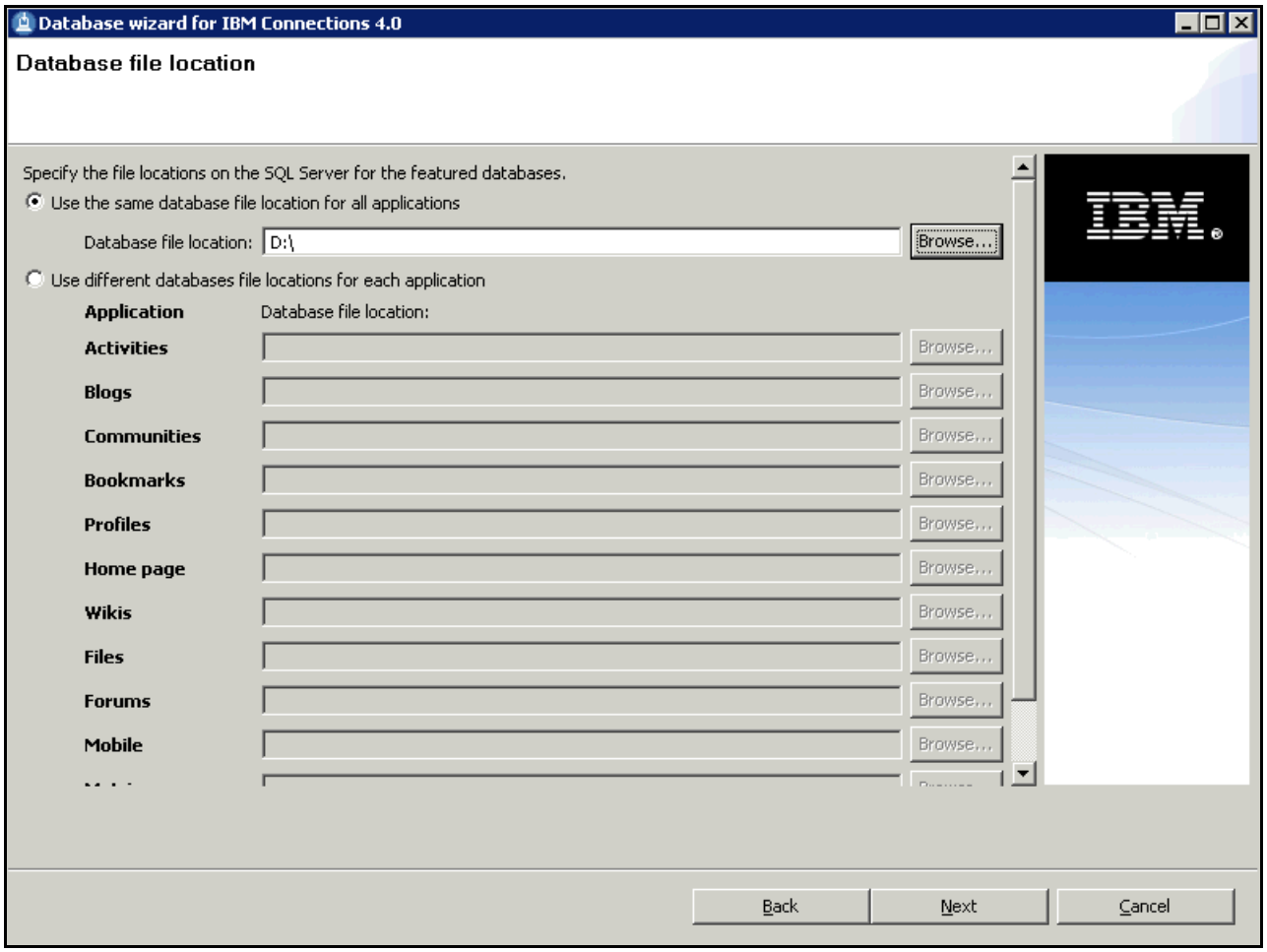

Figure 6. Database wizard for IBM Connections 4.0: Database file location

__ 8. Review the database creation summary and click **Create**.

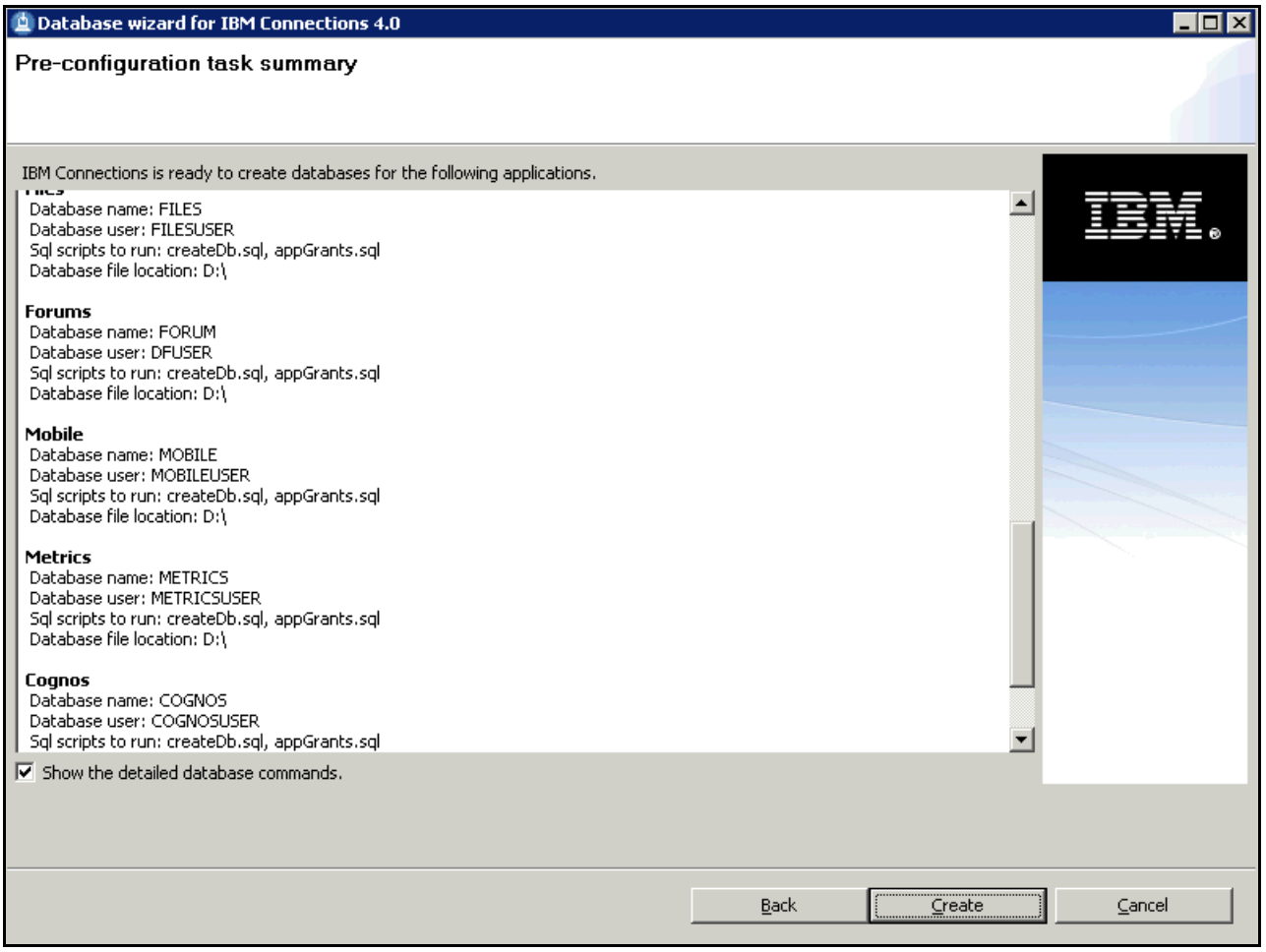

Figure 7. Database wizard for IBM Connections 4.0: Pre-configuration task summary

__ 9. Wait for several minutes and review the creation log, and then click **Finish** to exit from the wizard.

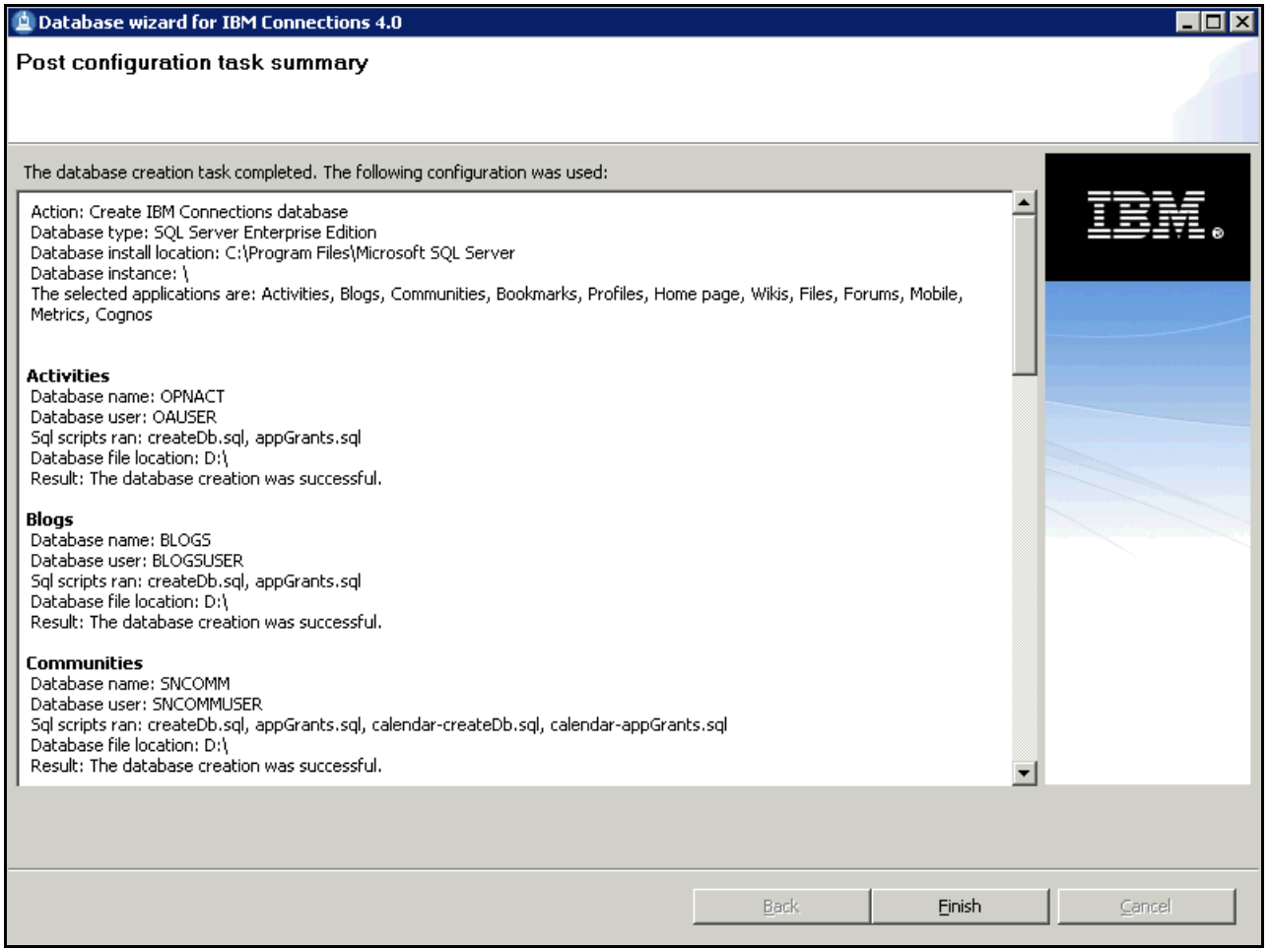

Figure 8. Database wizard for IBM Connections 4.0: Post configuration task summary

Create databases with DB wizard

__ 1. Change the "source_ldap_iterate_with_filter=false" to "source_ldap_iterate_with_filter=true" in <wizard>\TDIPopulation\win\TDI\profiles_tdi.properties and save.

__ 2. Start profile population wizard: populationWizard.bat and click **Next**.

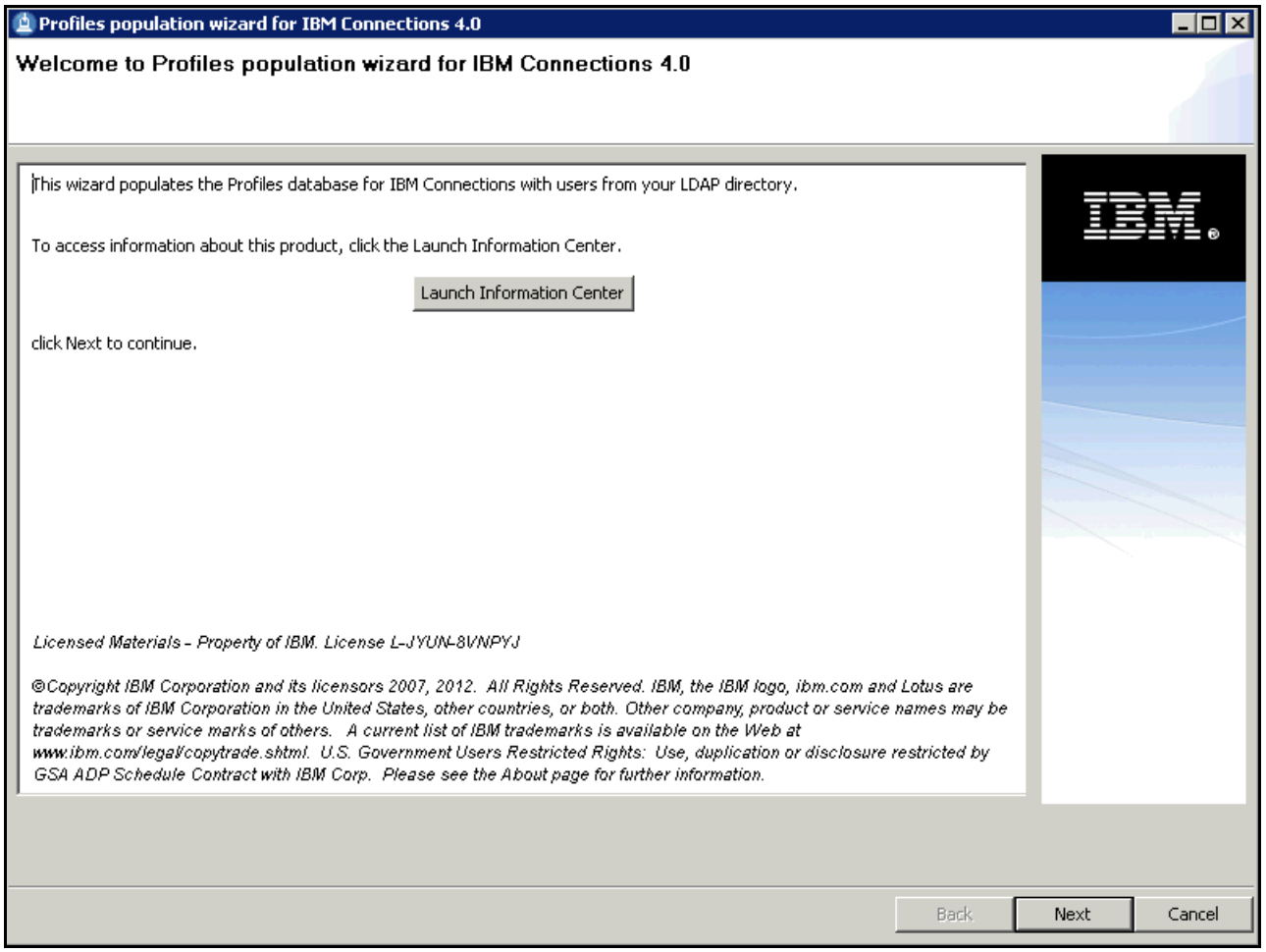

Figure 9. Profiles population wizard for IBM Connections 4.0

__ 3. Choose default settings to a new populate configuration and "Last successful configuration setting" if you want to reuse the previous configuration. Click **Next**.

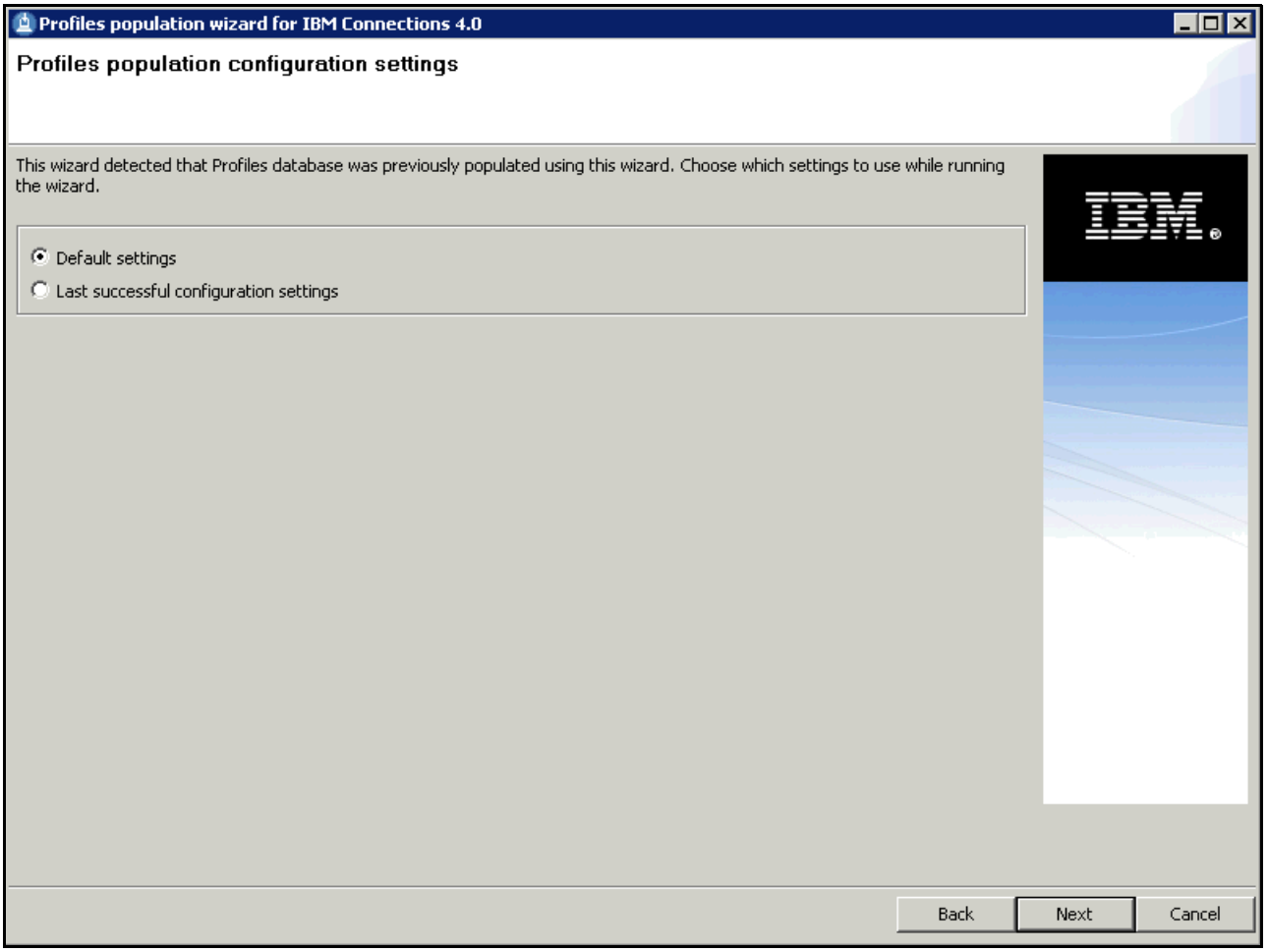

Figure 10. Profiles population wizard for IBM Connections 4.0: Profiles population configuration settings

__ 4. Choose database type as SQL Server Enterprise Edition and click **Next**.

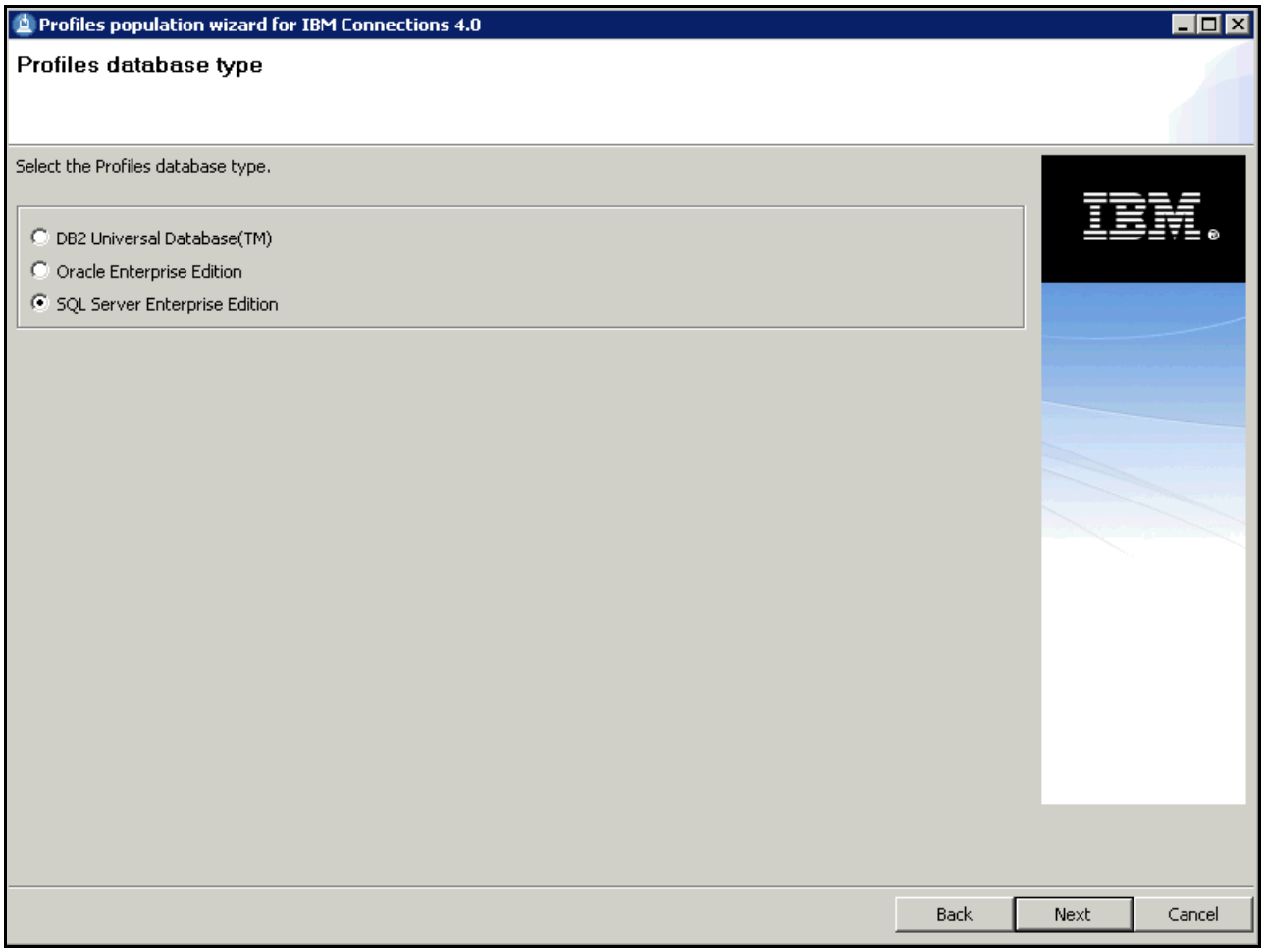

Figure 11. Profiles population wizard for IBM Connections 4.0: Profiles database type

__ 5. Specify Profiles database information and click **Next**.

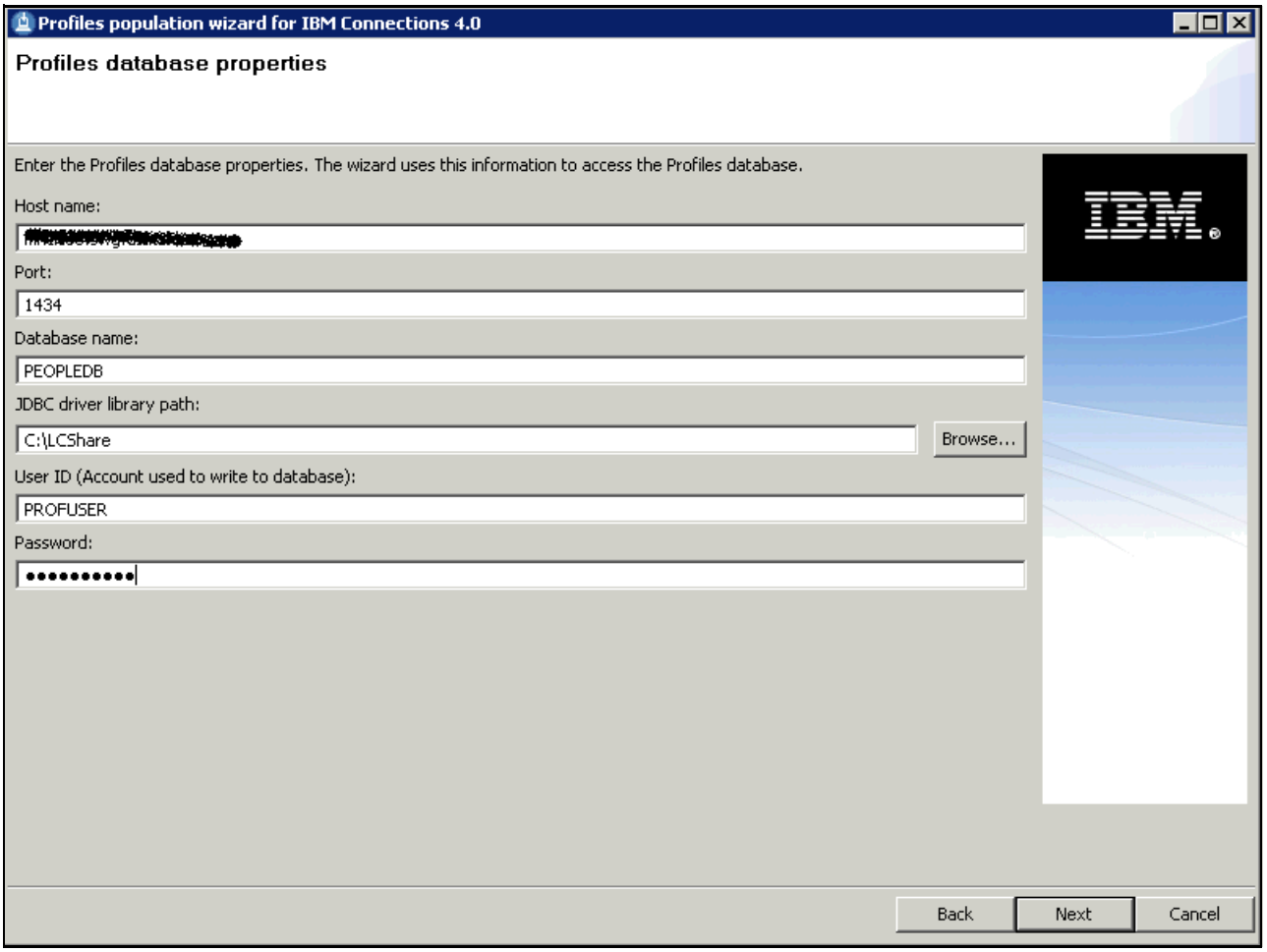

Figure 12. Profiles population wizard for IBM Connections 4.0: Profiles database properties

__ 6. Specify LDAP server host name and port and click **Next**.

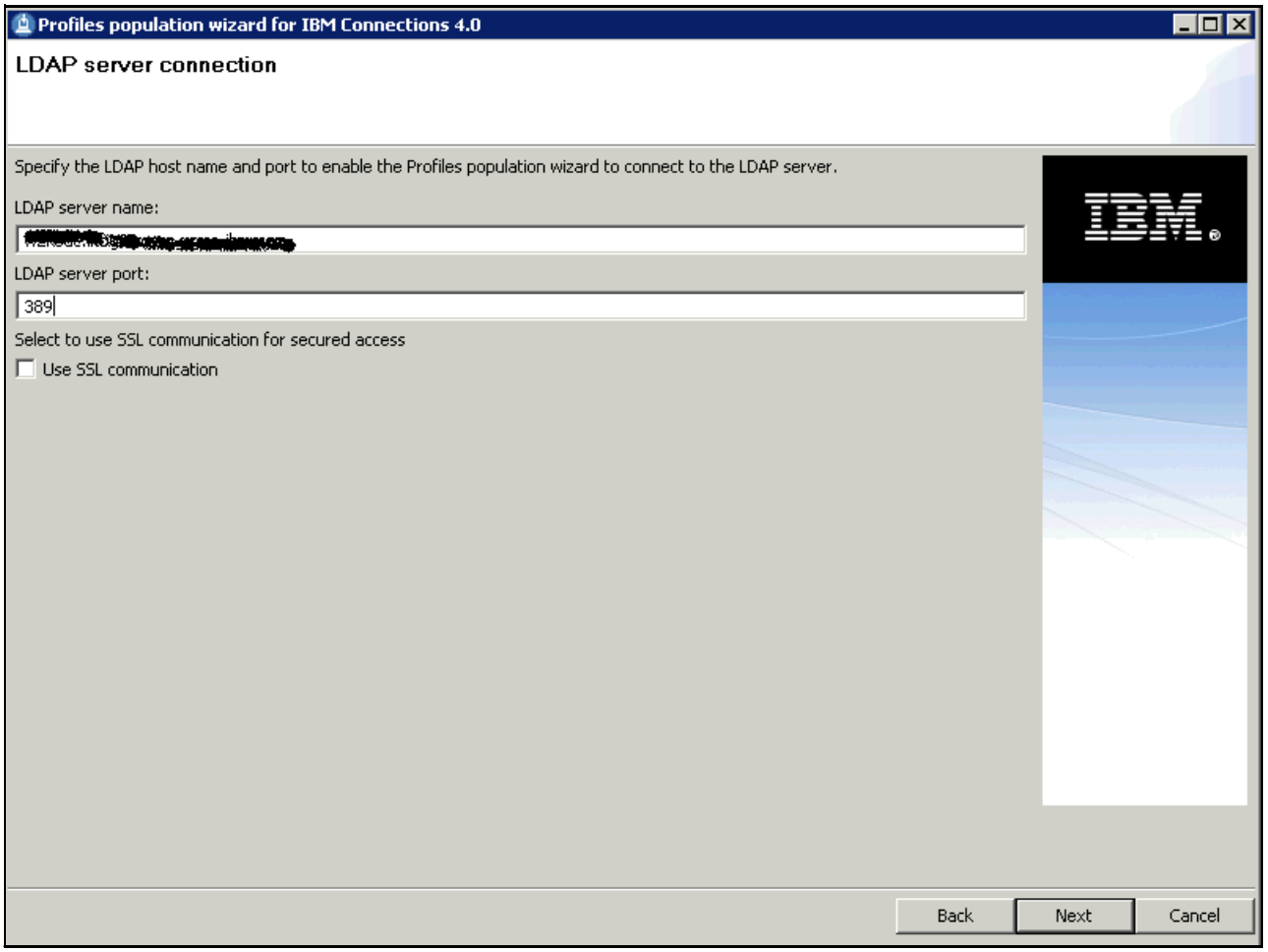

Figure 13. Profiles population wizard for IBM Connections 4.0: LDAP server connection

__ 7. Specify bind user and its password and click **Next**.

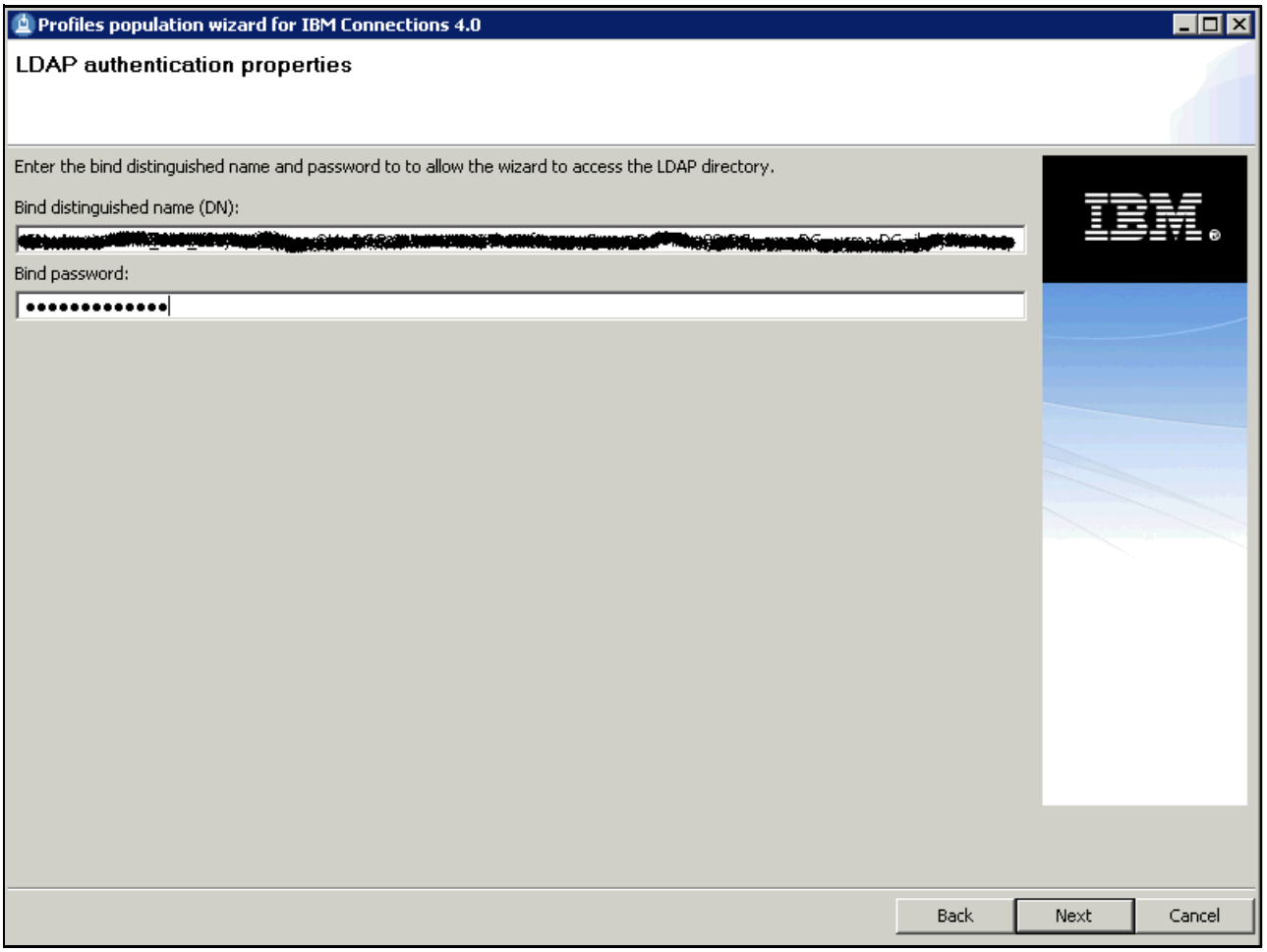

Figure 14. Profiles population wizard for IBM Connections 4.0: LDAP authentication properties

__ 8. Specify LDAP search base and filter and click **Next**.

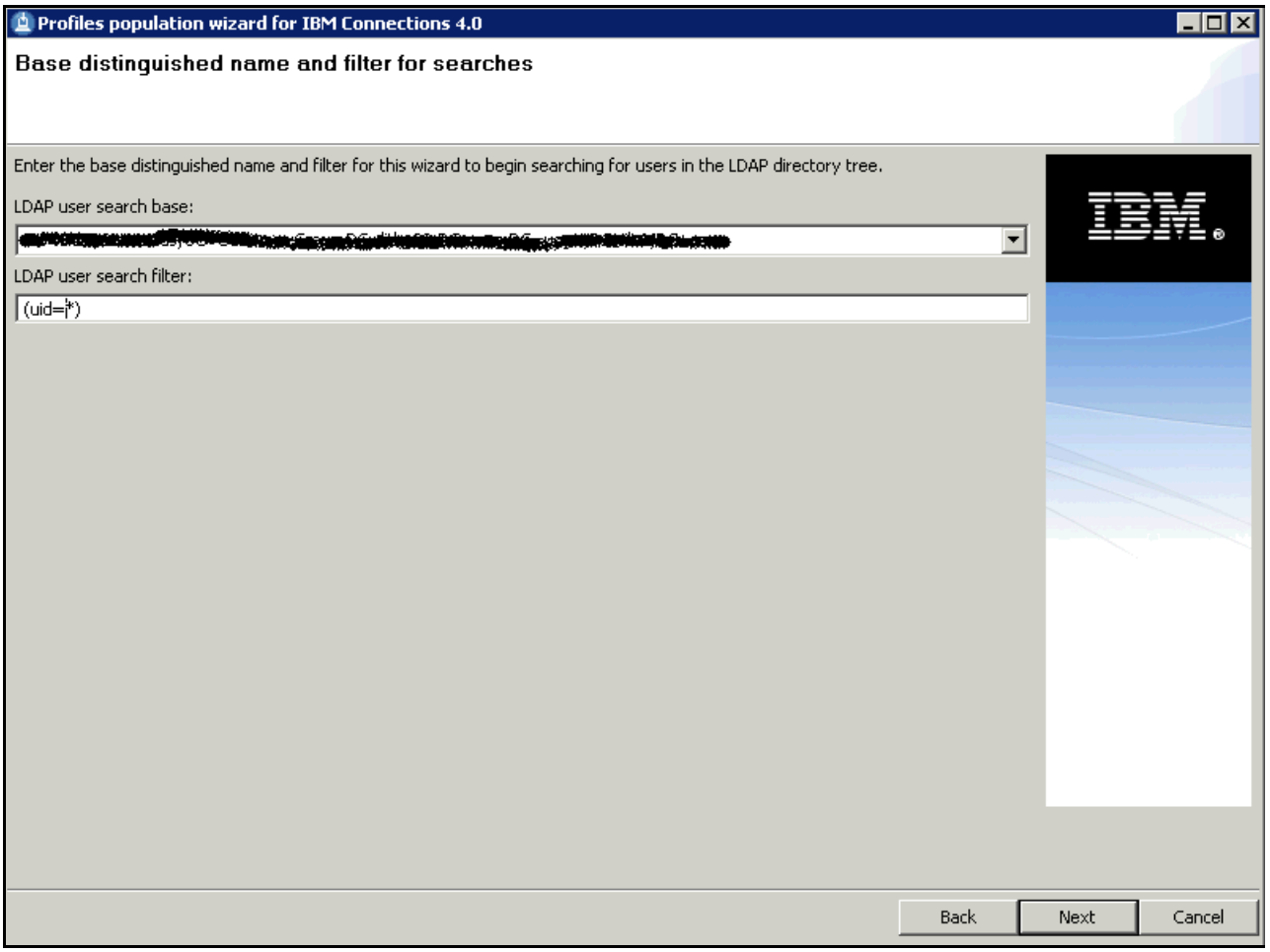

Figure 15. Profiles population wizard for IBM Connections 4.0: Base distinguished name and filter for searches

__ 9. Review map table and change anything you want to customize. Click **Next**.

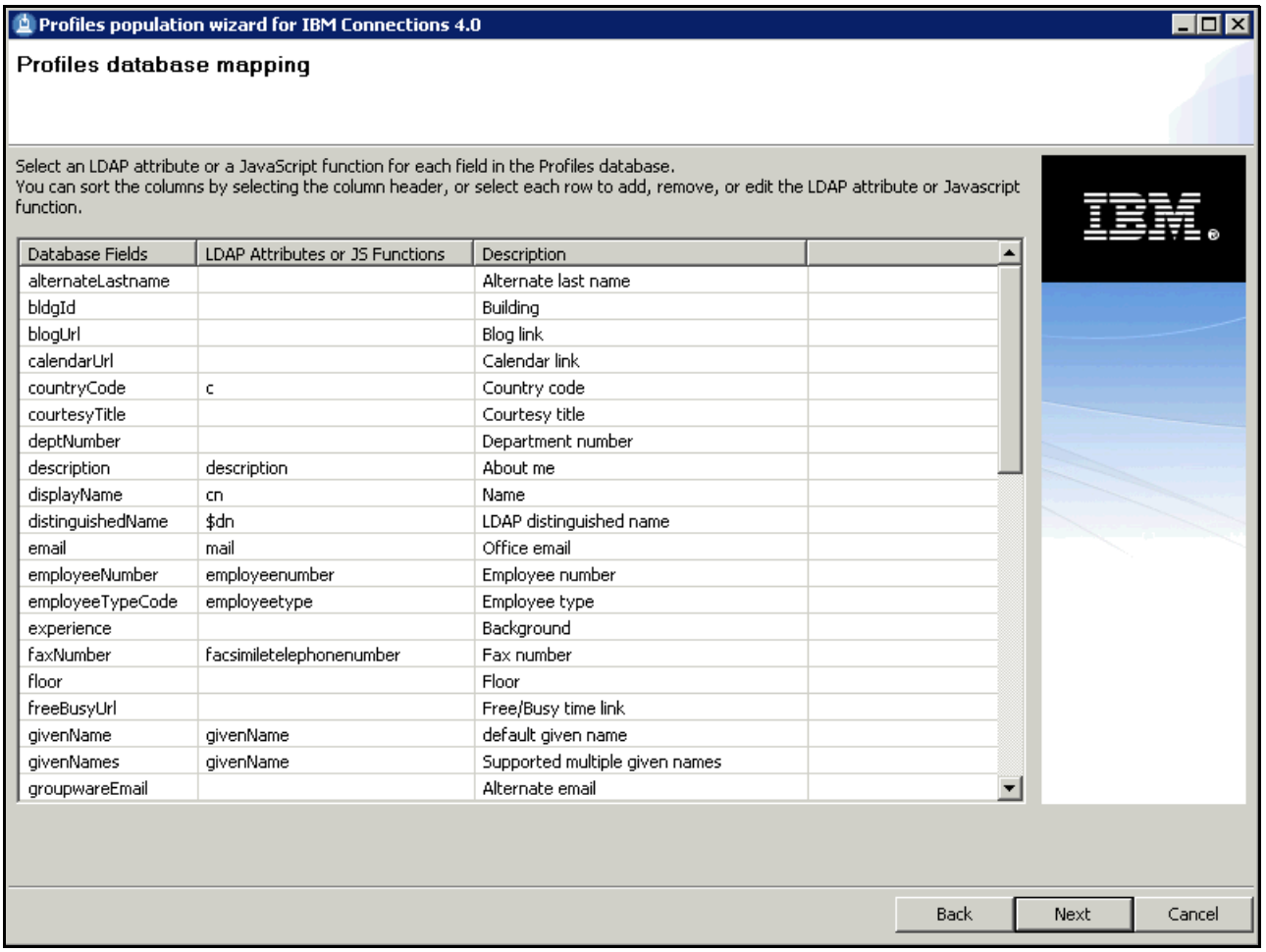

Figure 16. Profiles population wizard for IBM Connections 4.0: Profiles database mapping

__ 10. Select **Yes** for marking the profiles of each manager and click **Next**.

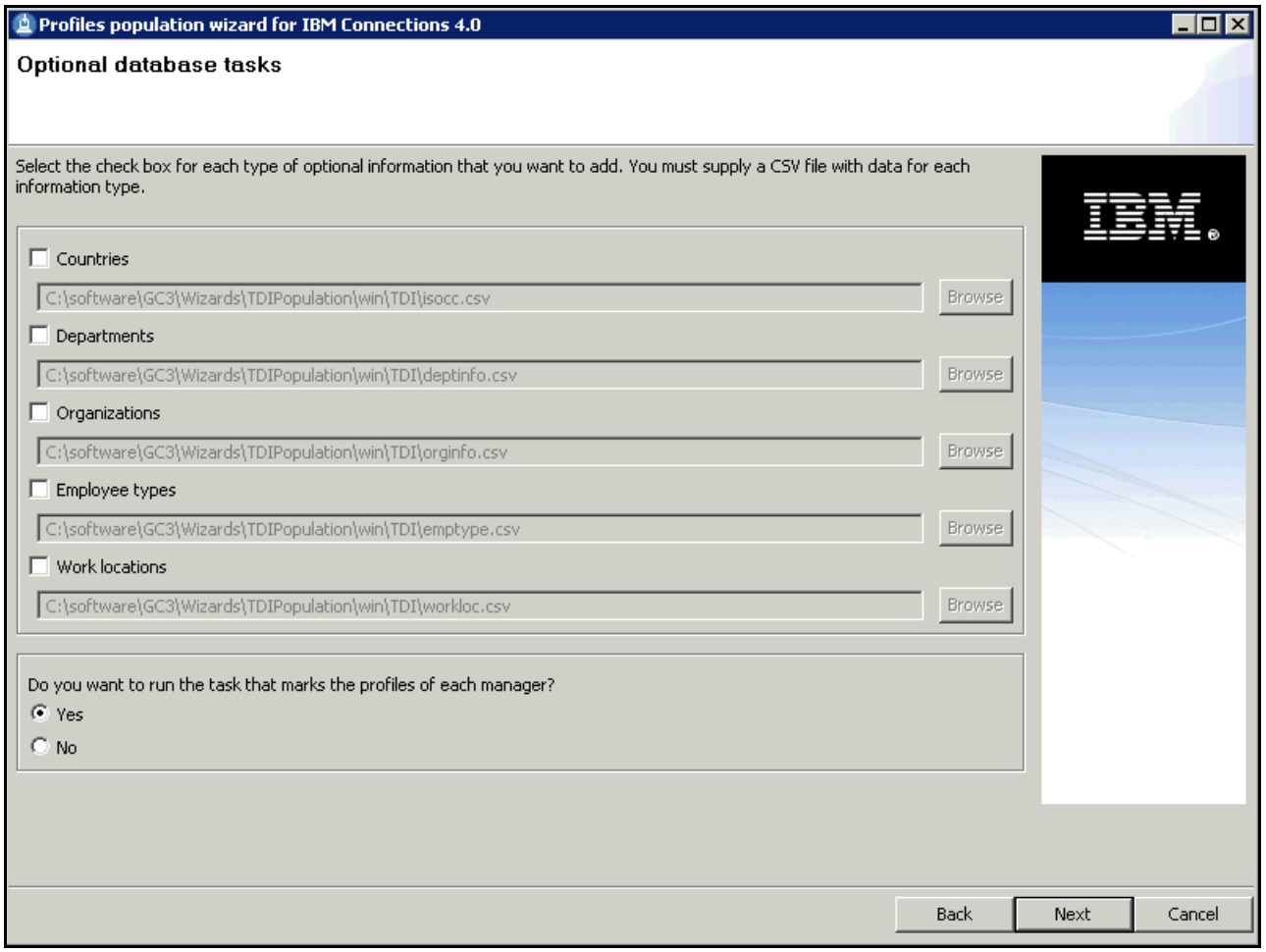

Figure 17. Profiles population wizard for IBM Connections 4.0: Optional database tasks

__ 11. Review the population summary and click **Configure**.

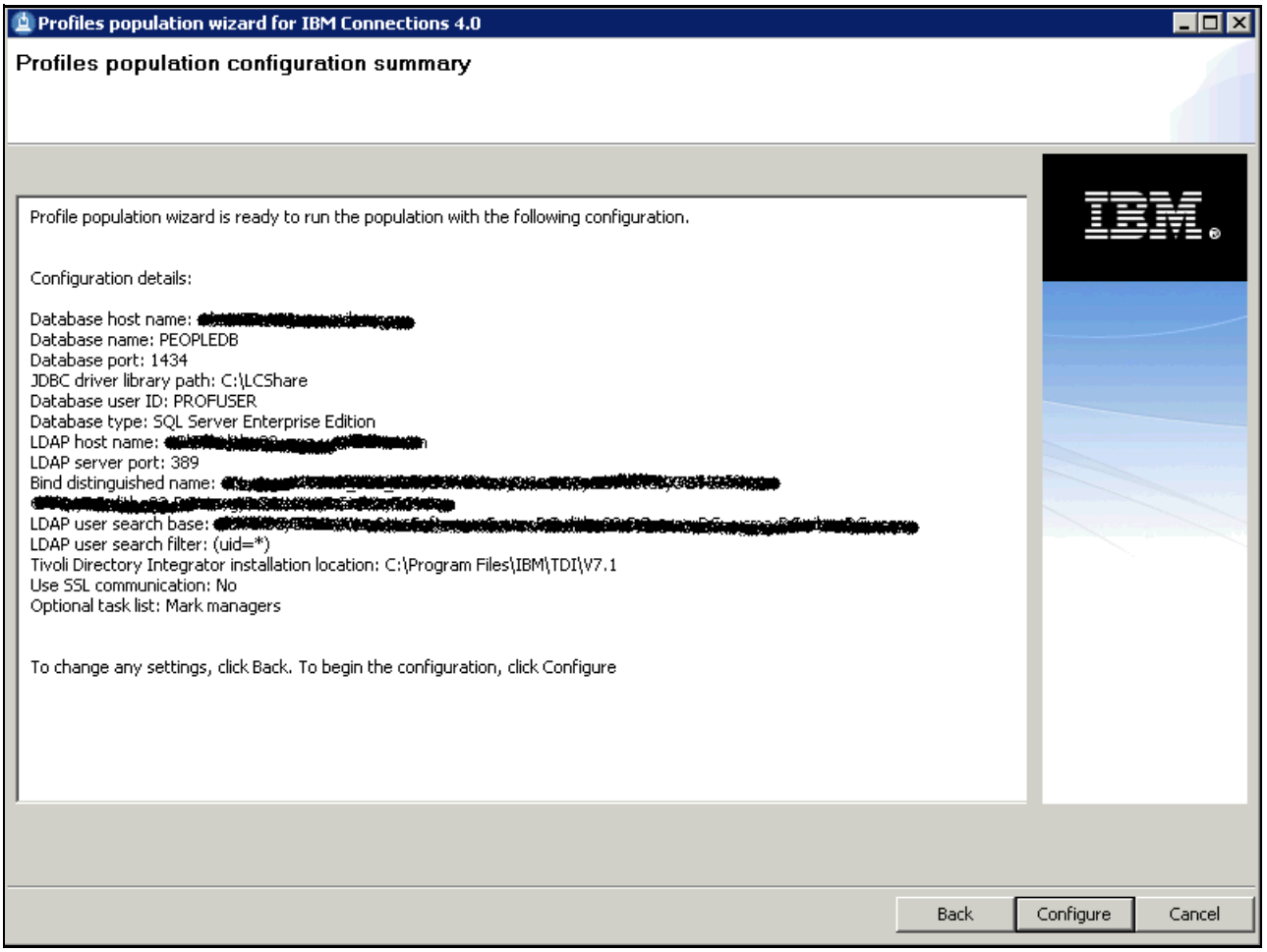

Figure 18. Profiles population wizard for IBM Connections 4.0: Profiles population configuration summary

__ 12. After population finishes, view logs and exit from wizard.

Installing and configuring Cognos server

__ 1. Install WebSphere Application Server 7.0.0.21 on Cognos server. Choose **Application Server** as installation type.

__ 2. Install the same test fix on WebSphere Application Server server as Connections node.

__ 3. Create two directories to hold the extracted product media (Cognos BI Server and Cognos Transformer).

__ 4. Create an installation folder and extract `CognosConfig.zip` to it.

Figure 19. Result of steps 2, 3 and 4

__ 5. Modify cognos-setup.properties in installation folder. Here is a sample:

```
# ****************************************************************
 #
 # Licensed Materials: Property of IBM
 #
 # 5724-S68
 #
 # Copyright IBM Corp. 2012 All Rights Reserved.
 #
 # US Government Users Restricted Rights: Use, duplication or
 # disclosure restricted by GSA ADP Schedule Contract with
 # IBM Corp.
 #
 # ****************************************************************
 # Location of the already installed WebSphere Application Server where you will
deploy Cognos Business Intelligence
 # Examples: C:\Program Files\IBM\WebSphere\AppServer
 # /opt/IBM/WebSphere/AppServer
 was.install.path=C:\IBM\WebSphere\AppServer
 # Profile name of the Application Server
 # Important: This must not be the Deployment Manager profile
 # Default profile is located here: <was.install.path>/profiles/<Profile_Name>
 # Example: /opt/IBM/WebSphere/AppServer/profiles/AppSrv01 uses the profile name
AppSrv01
 was.profile.name=AppSrv01
 # Local WebSphere Application Server administrator username
 was.local.admin.username=wasadmin
 # Local WebSphere Application Server administrator password
 # Note: Password is stored in clear text; leave setting blank to supply it at run
time
 was.local.admin.password=wasadmin
 # The following property is only required for Windows systems.
 # The fully qualified host name of this Application Server
 # Example: host.example.com
 was.fqdn.hostname=cognos.example.com
 # The WebSphere Application Server node where the Cognos BI server instance will be
```



```
created (this must be an existing node)
 # The node name can be found in
<was.install.path>/profiles/<Profile_Name>/logs/AboutThisProfile.txt
 cognos.was.node.name=cognosNode01
 # The server instance name where Cognos BI EAR will be deployed; this server
instance will be created during installation
 cognos.was.server.name=cognos_server
 # Location of issetup installer for Cognos BI Server
 # The installer is stored below the directory where you expanded the BI Server
package
 # Note: Include installer in the path: issetup.exe for Windows; issetup for
non-Windows
 # Examples: C:\biserver_10.1.1\winx64h\issetup.exe
 # /opt/biserver_10.1.1/linuxi38664h/issetup
 cognos.biserver.issetup=C:\Cognos_BI\winx64h\issetup.exe
 # Location of issetup installer for Cognos Transformer
 # The installer is stored below the directory where you expanded the Transformer
package
 # Note: Include installer in the path: issetup.exe for Windows; issetup for
non-Windows
 # Examples: C:\transformer_10.1.1\win32\issetup.exe
 # /opt/transformer_10.1.1/linuxi38632/issetup
 cognos.transformer.issetup=C:\Cognos_TX\win32\issetup.exe
 # To deploy and configure the product, fill in the desired install location
 #
 # Important: BI Server and Transformer cannot share the same install location
 #
 # Install location of Cognos BI Server
 # Examples: C:\Program Files\IBM\Cognos
 # /opt/IBM/Cognos64
 cognos.biserver.install.path=C:\Program Files\IBM\Cognos
 # Install location of Cognos Transformer
 # Examples: C:/Program Files (x86)/IBM/Cognos
 # /opt/IBM/Cognos
 cognos.transformer.install.path=C:\Program Files (x86)\IBM\Cognos
 # Cognos installation language
 # Valid values:
 # EN: English (Default)
 # ZH_CN: Chinese (PRC)
 # ZH_TW: Chinese (Taiwan)
 # FR: French
 # DE: German
 # IT: Italian
 # JA: Japanese
 # KO: Korean
 # PT_BR: Portuguese (Brazil)
 # ES: Spanish
 cognos.locale=EN
 # Context root of Cognos BI Server application; do not include leading '/'
 cognos.contextroot=cognos
 # The LDAP user name and password chosen to be the Cognos administrator
 # Note: Password is stored in clear text; leave blank to supply at run time
 cognos.admin.username=Aamir_000_000
 cognos.admin.password=Aamir_000_000
 # The Cognos name space to be used by IBM Connections
 cognos.namespace=IBMConnections
```

```
# Location where PowerCubes generated by the Transformer are stored
# Examples: C:\Program Files\IBM\Cognos\PowerCubes
# /opt/IBM/Cognos/PowerCubes
cognos.cube.path=C:\Program Files\IBM\Cognos\PowerCubes
# Information for the Cognos Content Store database
# Supported database types:
# DB Type : Value
# ==========================
# DB2 : db2
# Oracle : oracle
# SQL Server : sqlserver
cognos.db.type=sqlserver
# Expected format for cognos.db.host: hostname:port
cognos.db.host=cognosdb.example.com:1434
cognos.db.name=COGNOS
cognos.db.user=COGNOSUSER
cognos.db.password=widget@1bm
# Information for the Metrics database
# Supported database types:
# DB Type : Value
# ==========================
# DB2 : db2
# Oracle : oracle
# SQL Server : sqlserver
metrics.db.type=sqlserver
# Expected format for metrics.db.host: hostname:port
metrics.db.host=cognosdb.example.com:1434
metrics.db.name=METRICS
# The local database name is used by the database client on the Transformer server
to reference the Metrics database.
# For DB2, this is the Metrics database local catalog alias name.
# For Oracle, this is the Metrics database local TNS name.
# For SQL Server, this is the Metrics database instance name.
metrics.db.local.name=ICINST
metrics.db.user=METRICSUSER
metrics.db.password=widget@1bm
```

__ 6. Run `cognos-configure.bat` in installation folder.

__ 7. If the passwords are removed in cognos-setup.properties, add them again.

__ 8. Run `cognos-setup.bat` in installation folder.

__ 9. Download the fix pack for Cognos from this website:

`http://www-933.ibm.com/support/fixcentral/swg/selectFixes?parent=Cognos&product=ibm/Information+Management/Cognos+8+Business+Intelligence&release=10.1.1&platform=All&function=all`

__ 10. Install the fix pack.

__ 11. If the passwords are removed in `cognos-setup.properties`, add them again.

__ 12. Run `cognos-setup-update.bat` in installation folder. A new `cognos.ear` is created in `<BI_Installation_Directory>` in this step.

__ 13. Go to WebSphere Application Server Administration Console, and upgrade the Cognos application with the file from the previous step.

__ 14. Federate the WebSphere Application Server node into Deployment Manager with this command:

```
addNode.bat dm.example.com 8879 -profileName AppSrv01 -includeapps -username
wasadmin -password wasadmin
```

Optional

You can add this node in the Deployment Manager administration console. Node all application should be included.

__ 15. Start the Cognos Configuration tool.

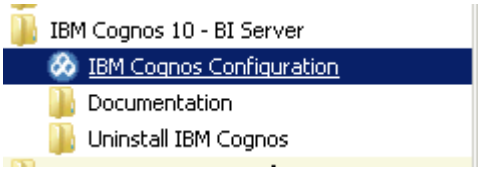

Figure 20. IBM Cognos Configuration

__ 16. Create a new =Authentication named IBMConnections and specify LDAP information in the properties.

Information

See
http://www-10.lotus.com/ldd/lcwiki.nsf/xpDocViewer.xsp?lookupName=IBM+Connections+4.0+documentation#action=openDocument&res_title=Configuring_support_for_LDAP_authentication_for_Cognos_Business_Intelligence_ic40&content=pdcontent.

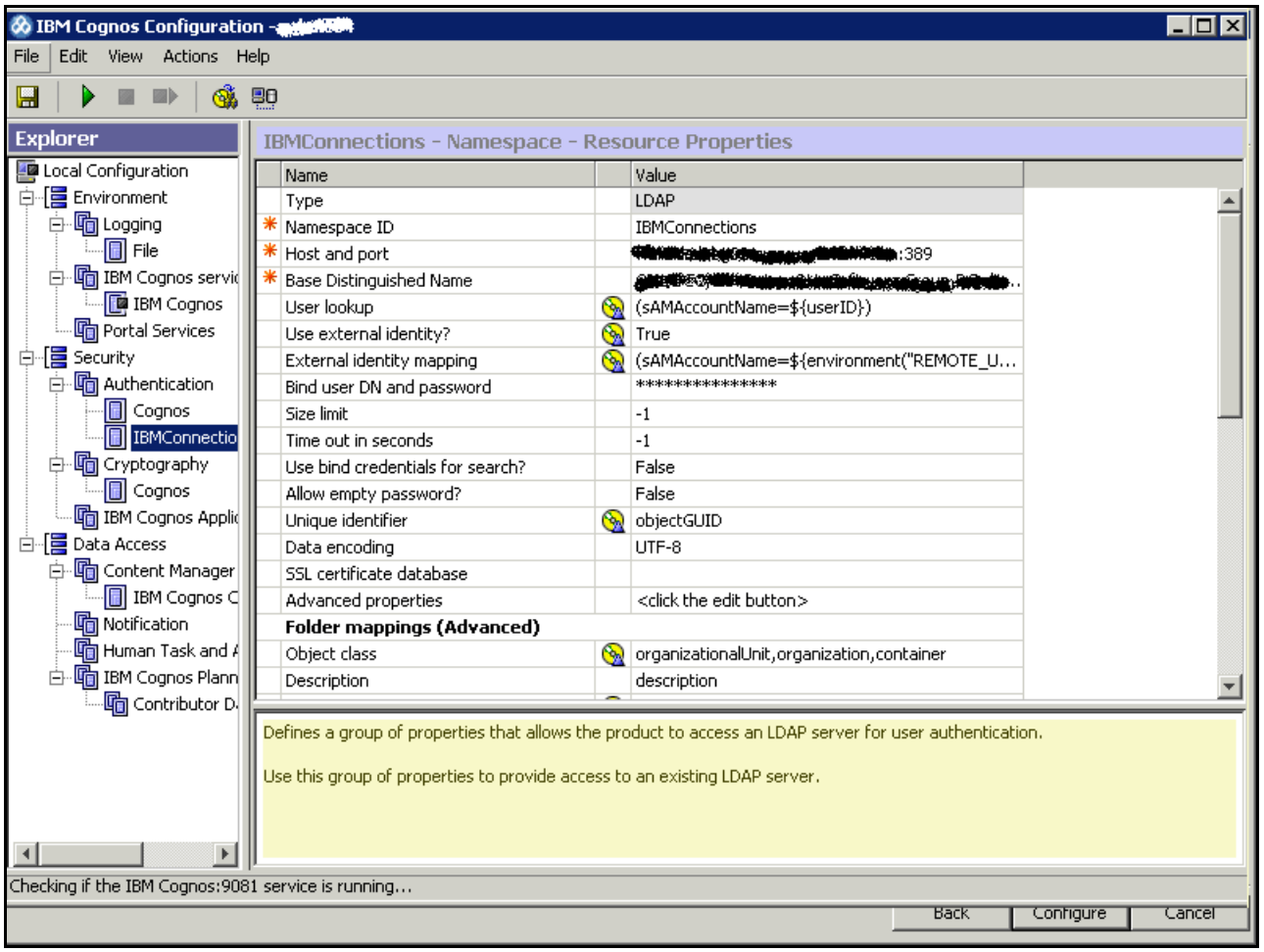

Figure 21. IBM Cognos Configuration

__ 17. Save and restart Cognos.

Installing Connections 4.0

__ 1. In IBM Installation Manager, click **Install**.

Figure 22. IBM Installation Manager

__ 2. Verify that Installation Manager and IBM Connections are both checked, then click **Next**.

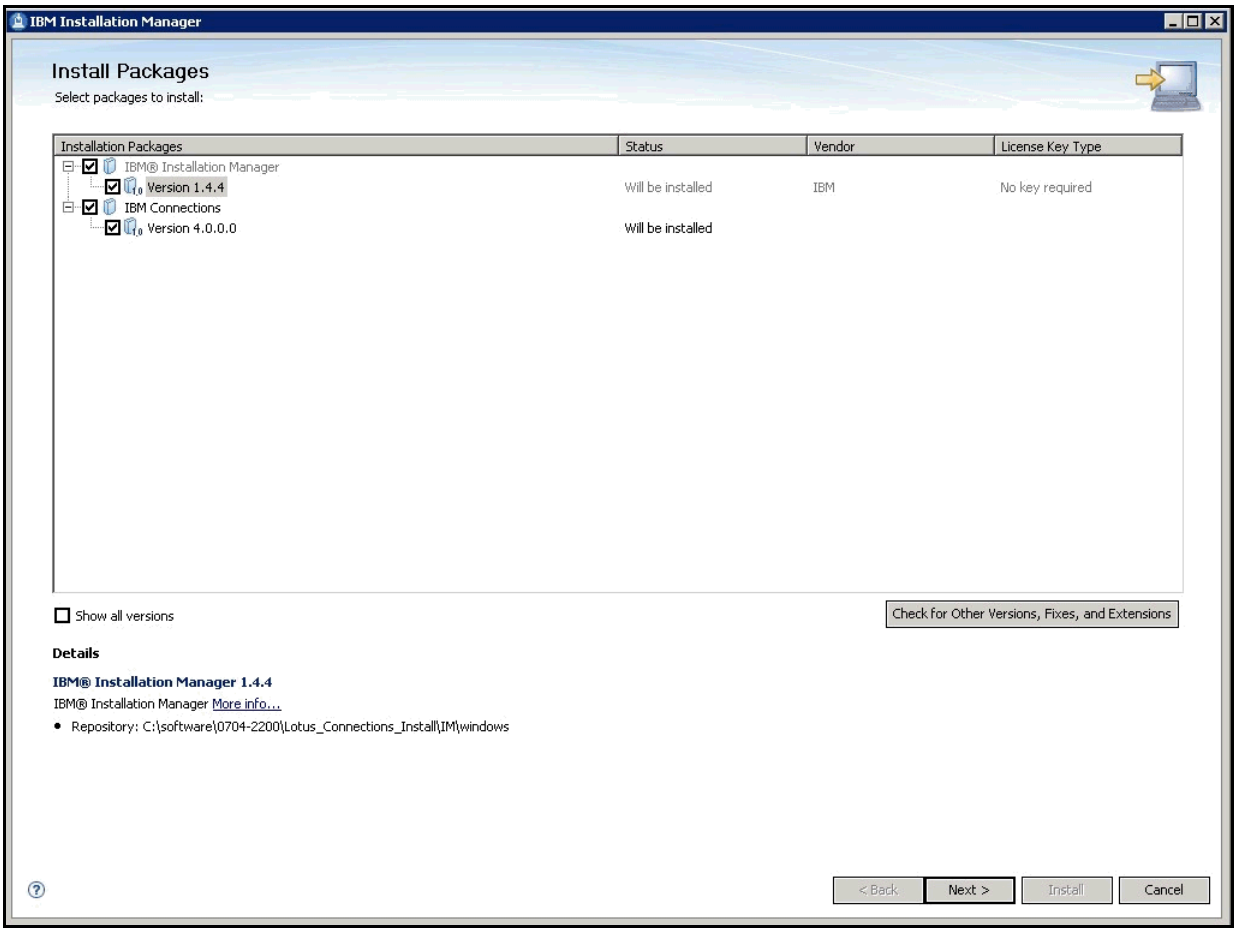

Figure 23. IBM Installation Manager: Install Packages

__ 3. View the license agreement and click **Next**.

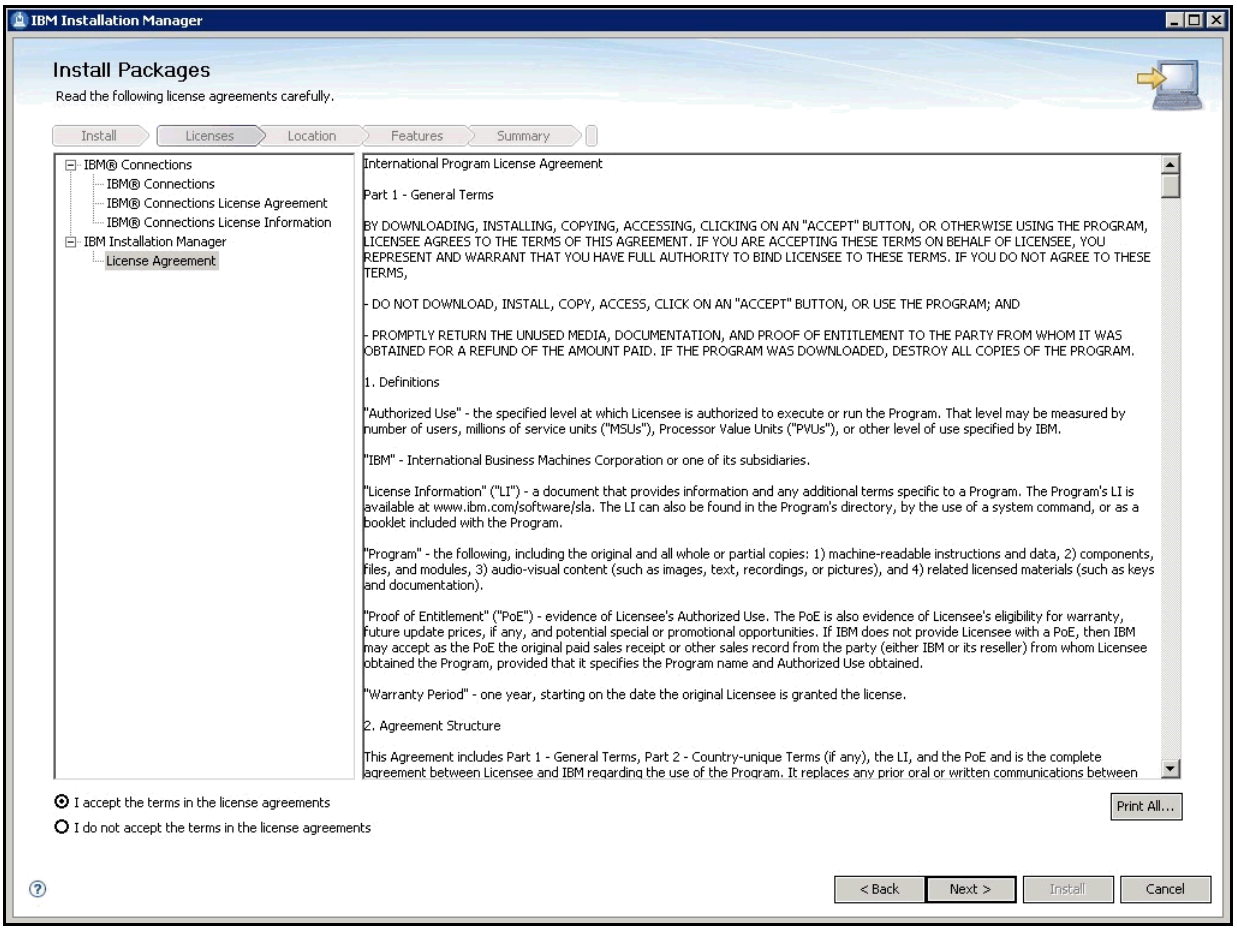

Figure 24. IBM Installation Manager: License agreement

__ 4. Input shared folder and Installation Manager installation directory and click **Next**.

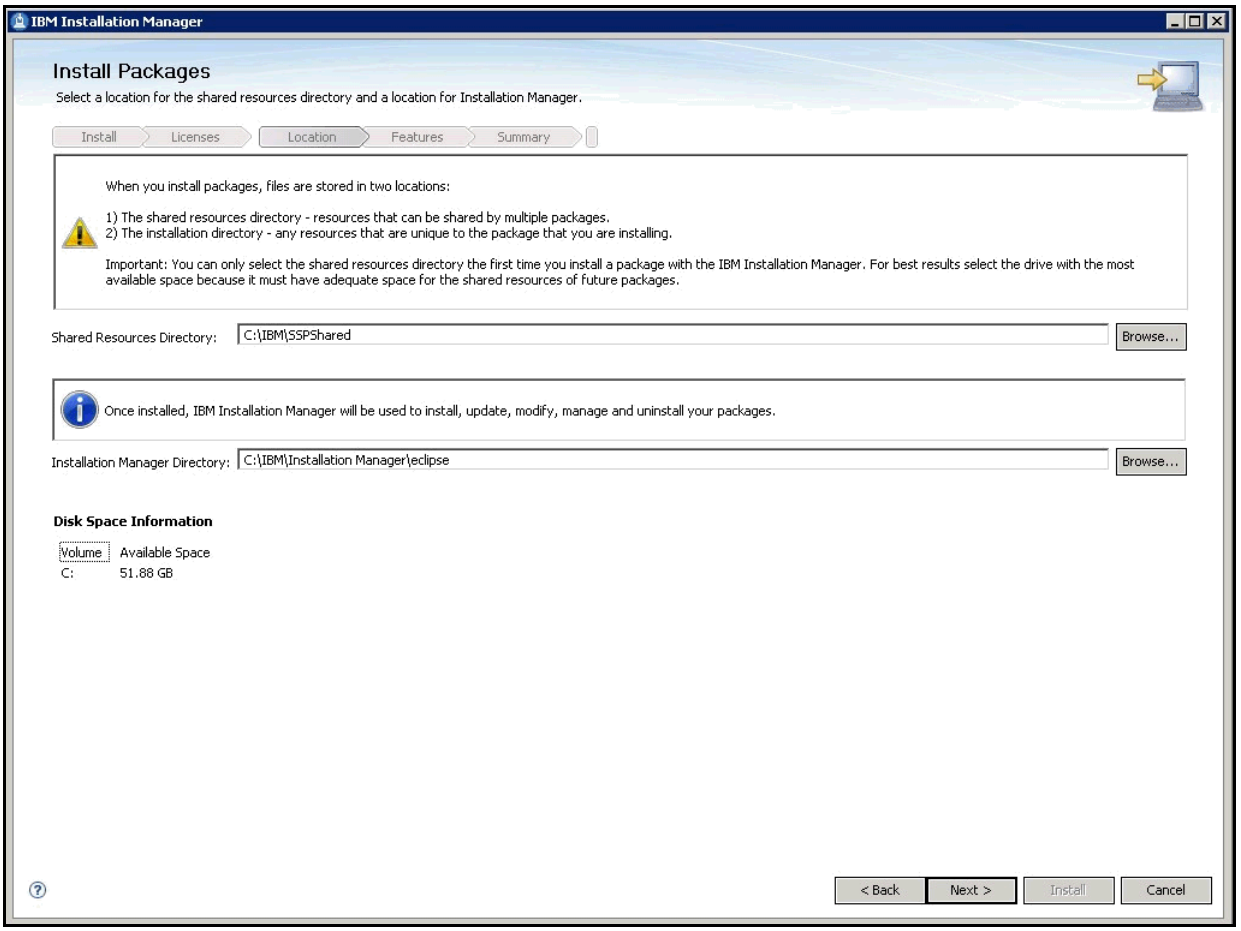

Figure 25. IBM Installation Manager: Locations for the shared resources directory and a location for Installation Manager

__ 5. Specify a Connections installation directory and click **Next**.

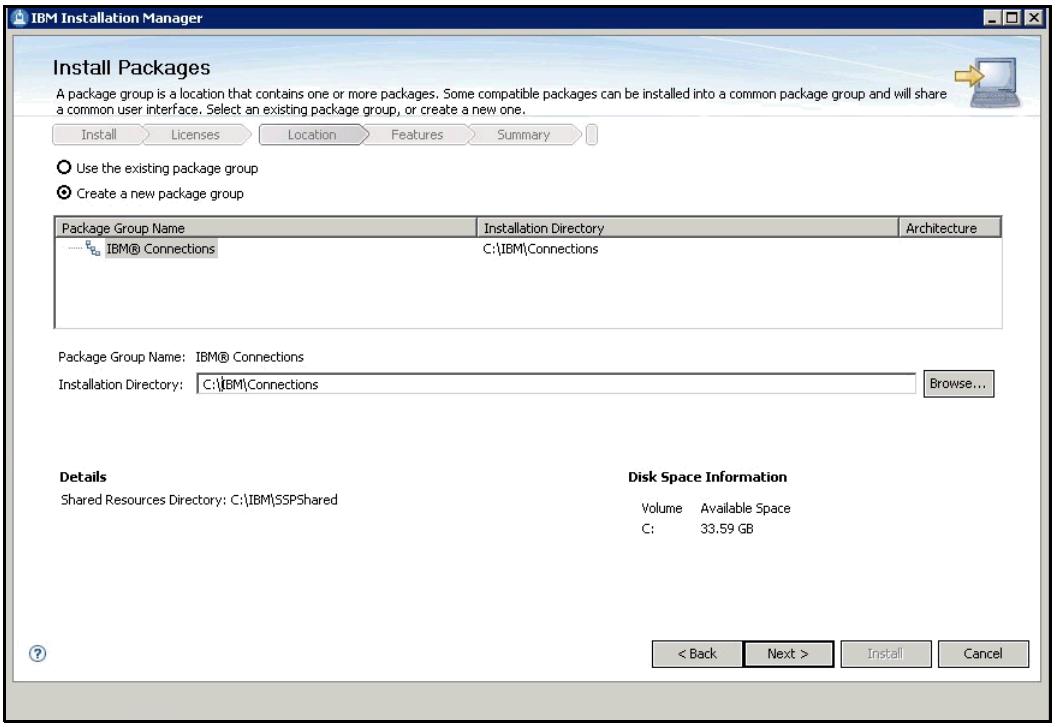

Figure 26. IBM Installation Manager: Installation location for IBM Connections

__ 6. Verify that all components are checked and click **Next**.

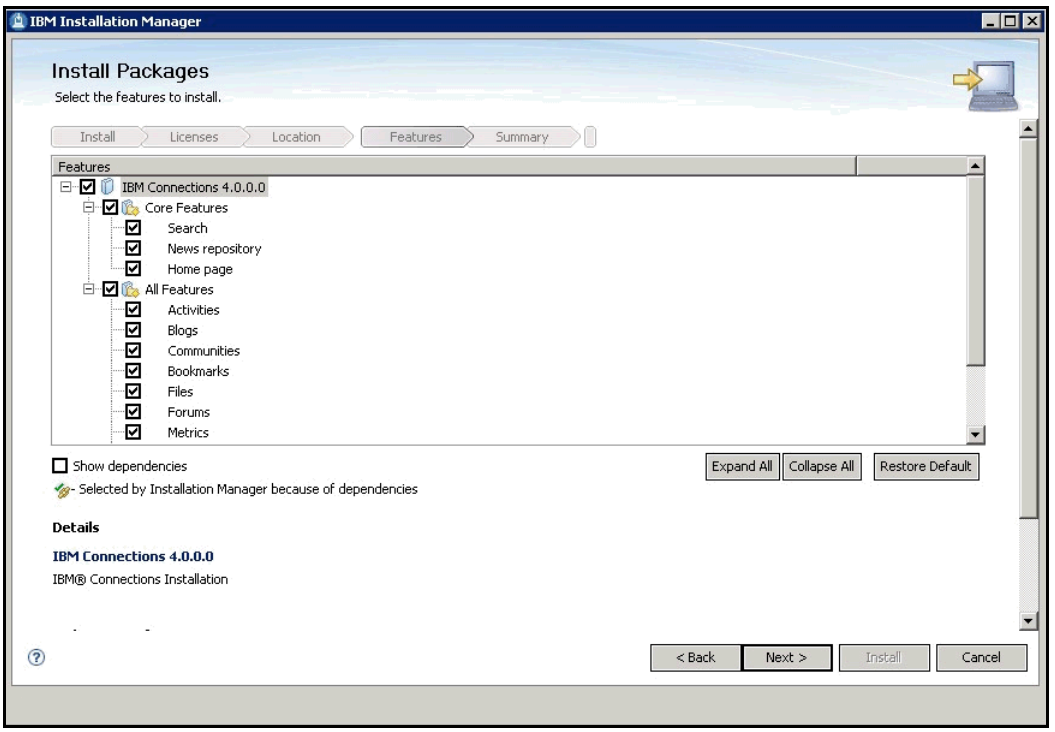

Figure 27. IBM Installation Manager: Features to install

__ 7. Specify Deployment Manager information and click **Validate**.

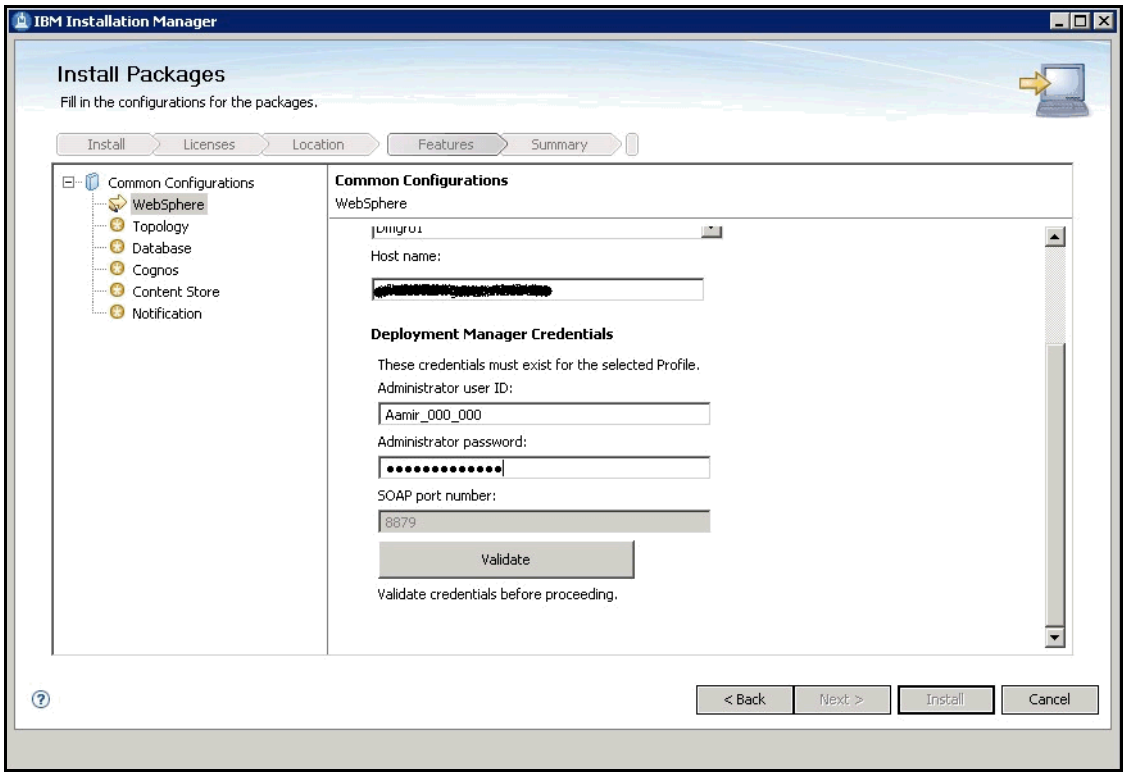

Figure 28. IBM Installation Manager: Configurations for packages

__ 8. An information dialog informs that the validation is successful. Click **OK**.

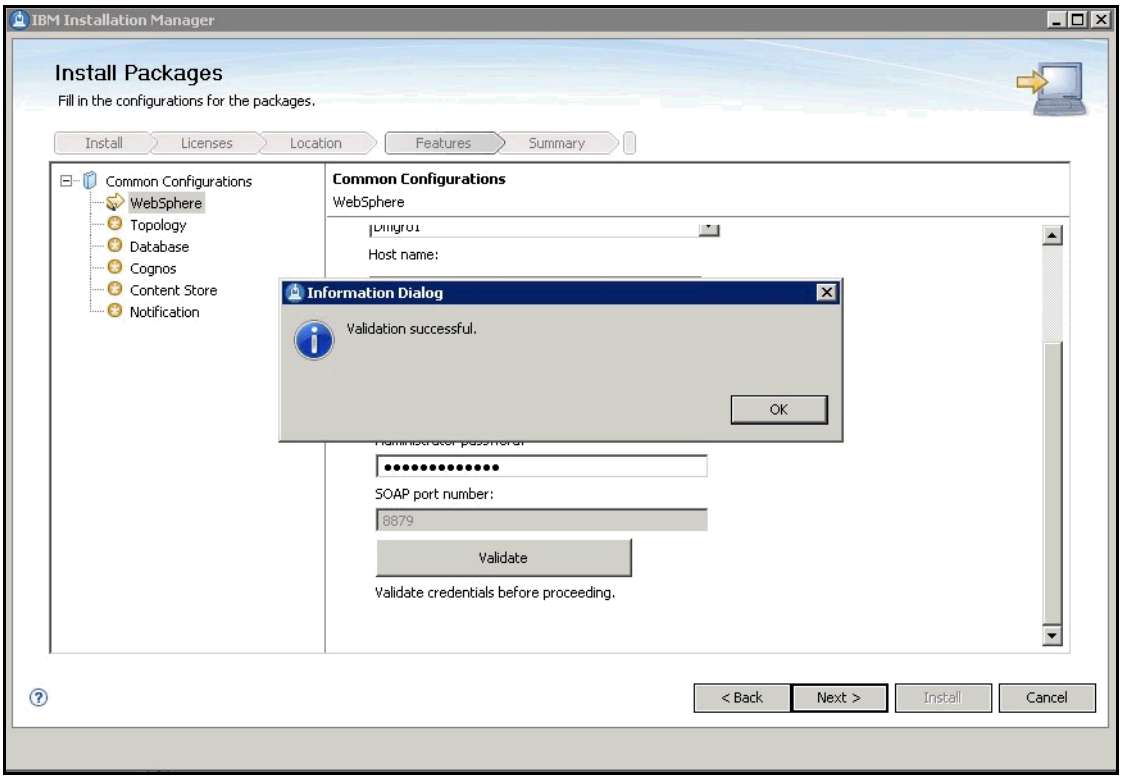

Figure 29. IBM Installation Manager: Validation successful

__ 9. Choose **Large** in "Deployment topology" and choose all nodes where you want to install Connections. Then, click **Next**.

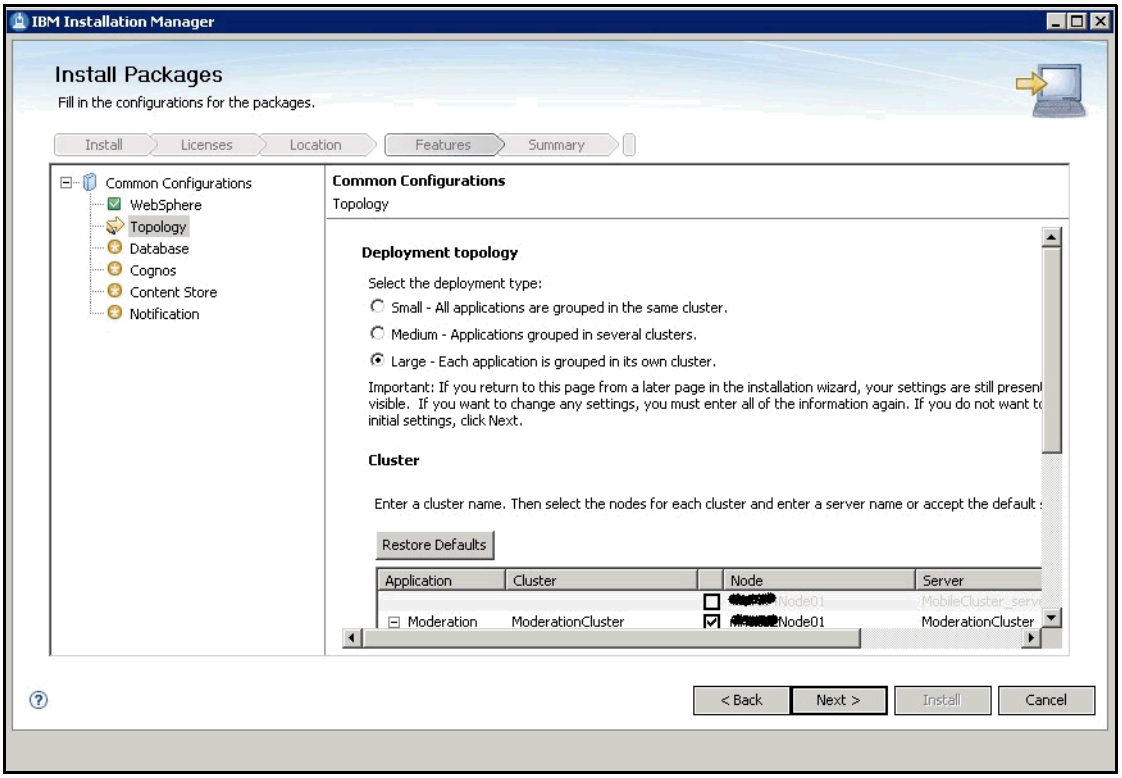

Figure 30. IBM Installation Manager: Deployment topology

__ 10. Specify the database information and click **Validate**.

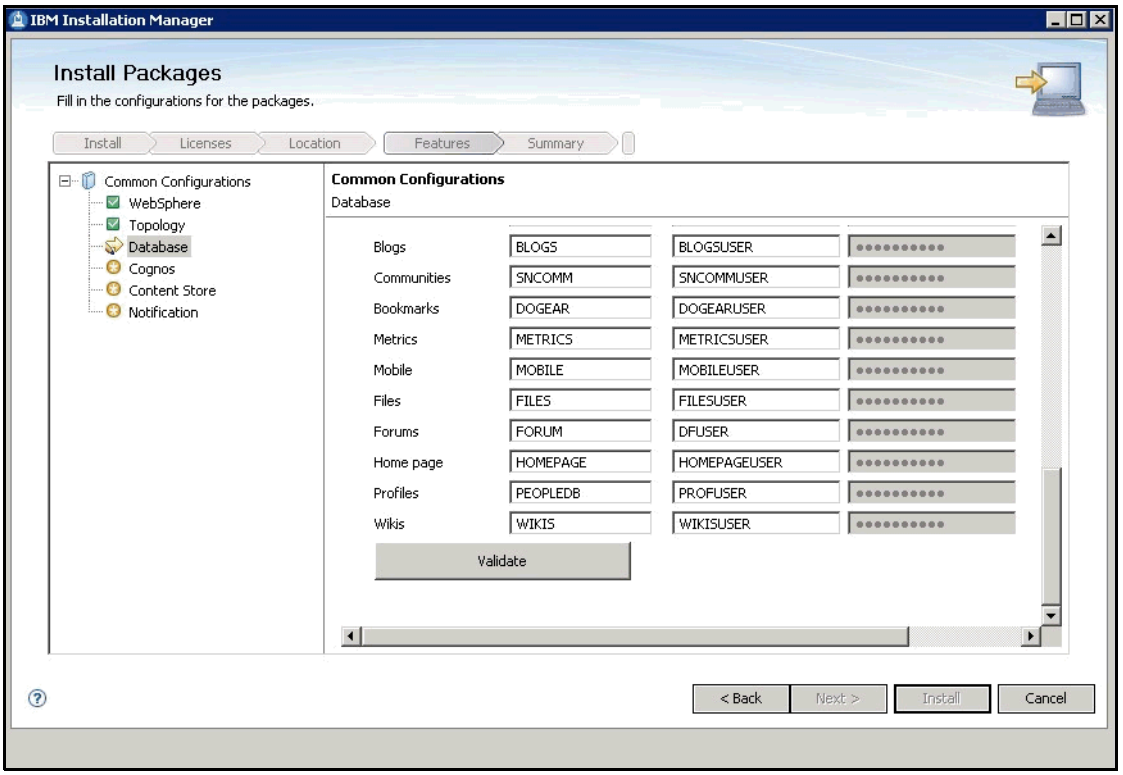

Figure 31. IBM Installation Manager: Database

__ 11. Specify Cognos server information and click **Next**.

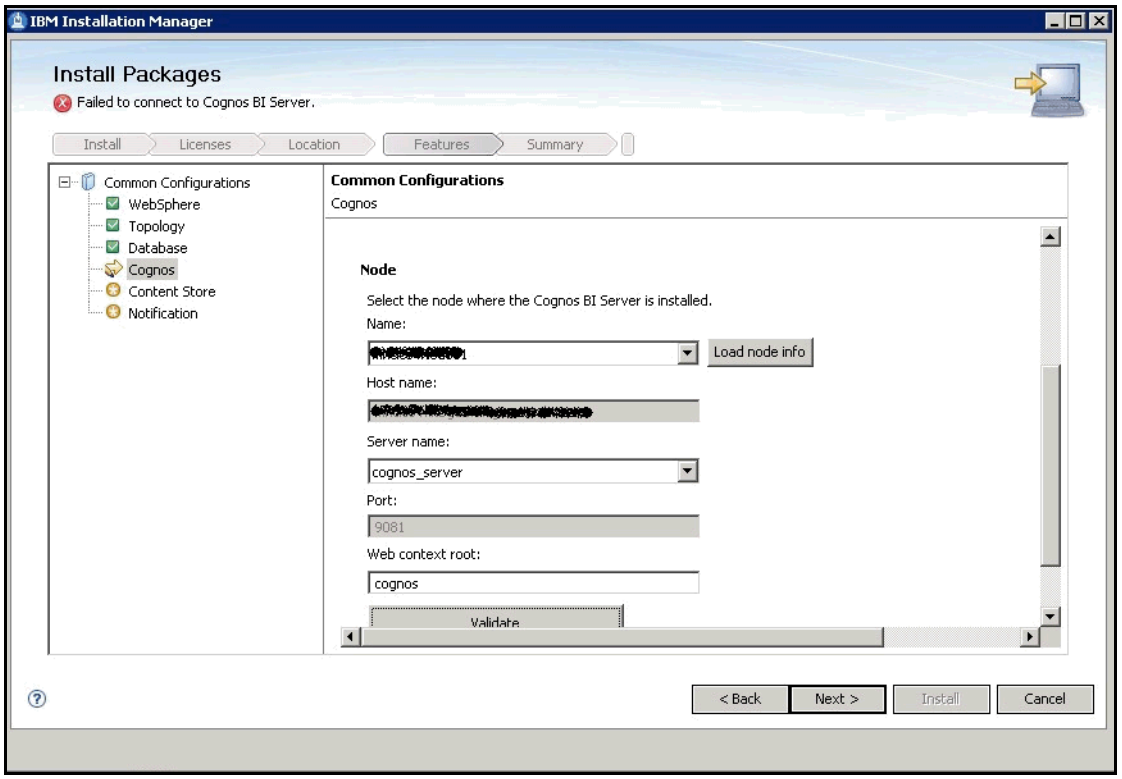

Figure 32. IBM Installation Manager: Cognos

__ 12. Specify shared and local folders and click **Validate**.

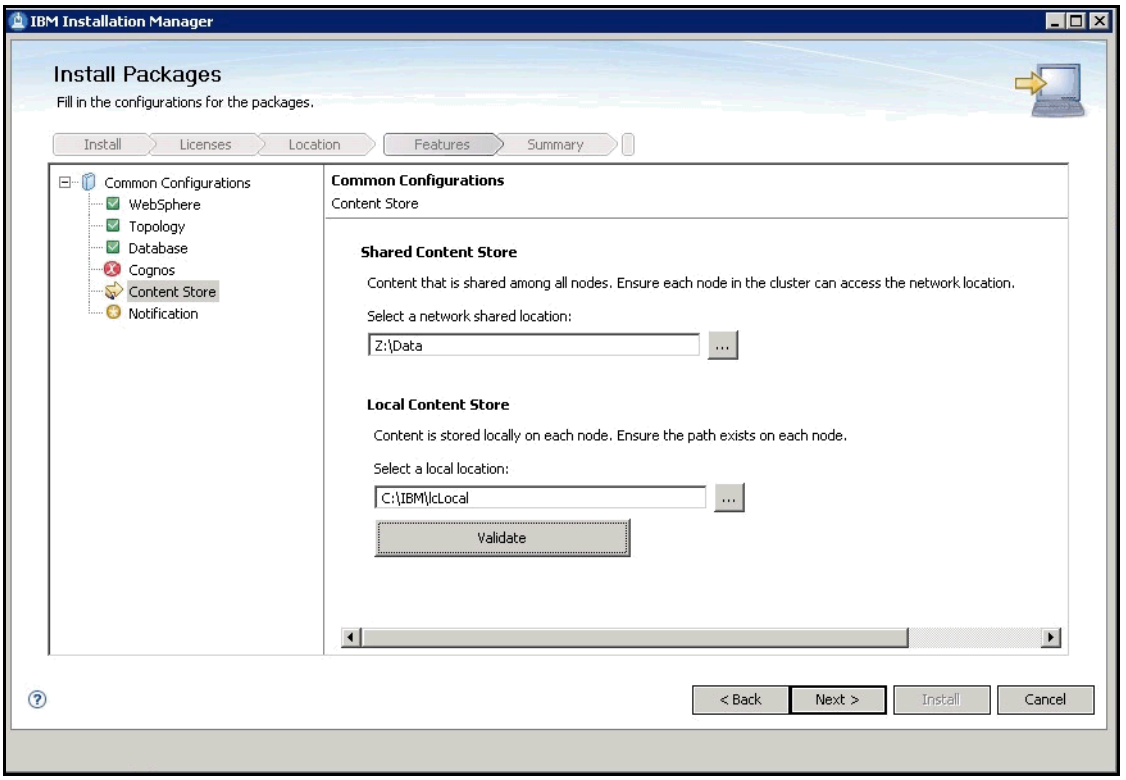

Figure 33. IBM Installation Manager: Shared Content Store

__ 13. Specify mail server information and click **Next**.

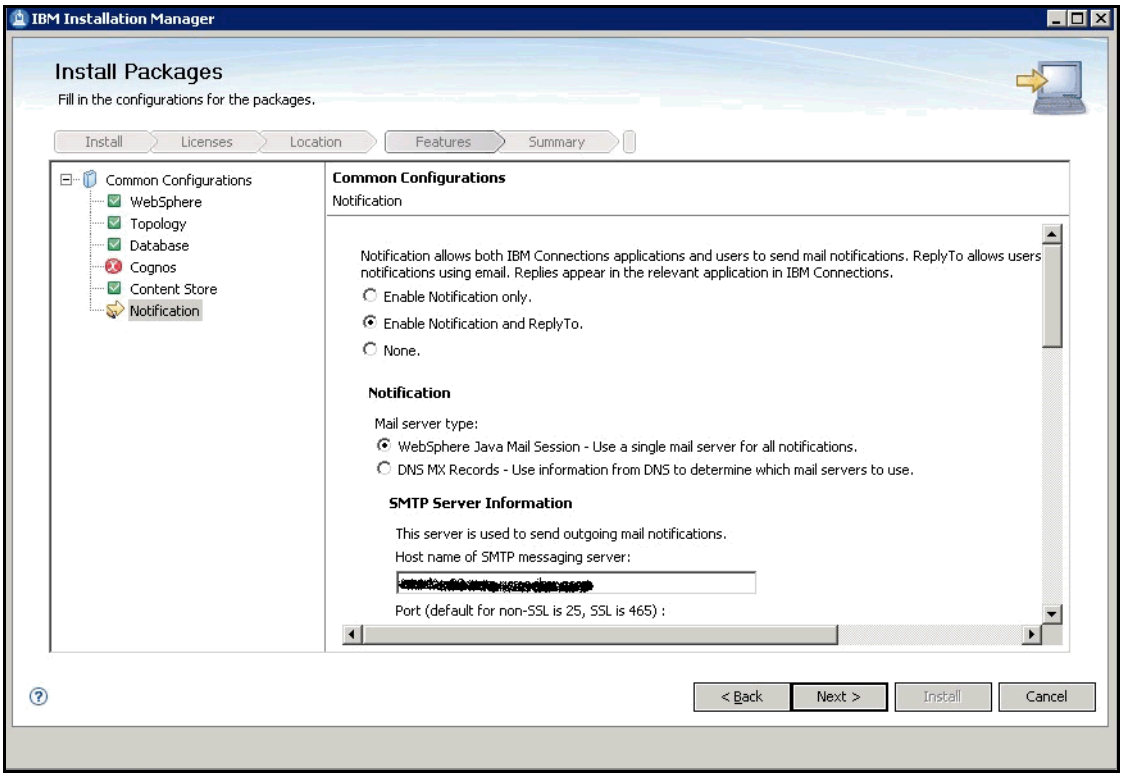

Figure 34. IBM Installation Manager: Notification

__ 14. Review the installation information and click **Install**.

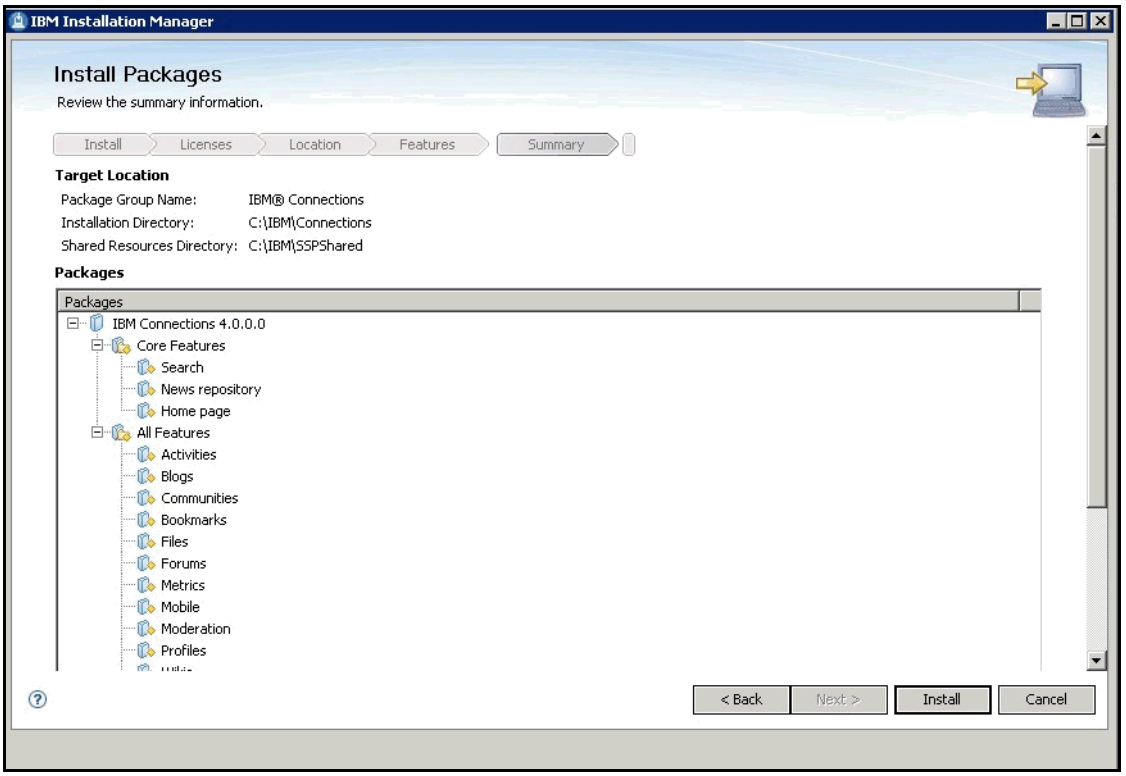

Figure 35. IBM Installation Manager: Summary information

__ 15. Go through the installation logs and click **Finish**.

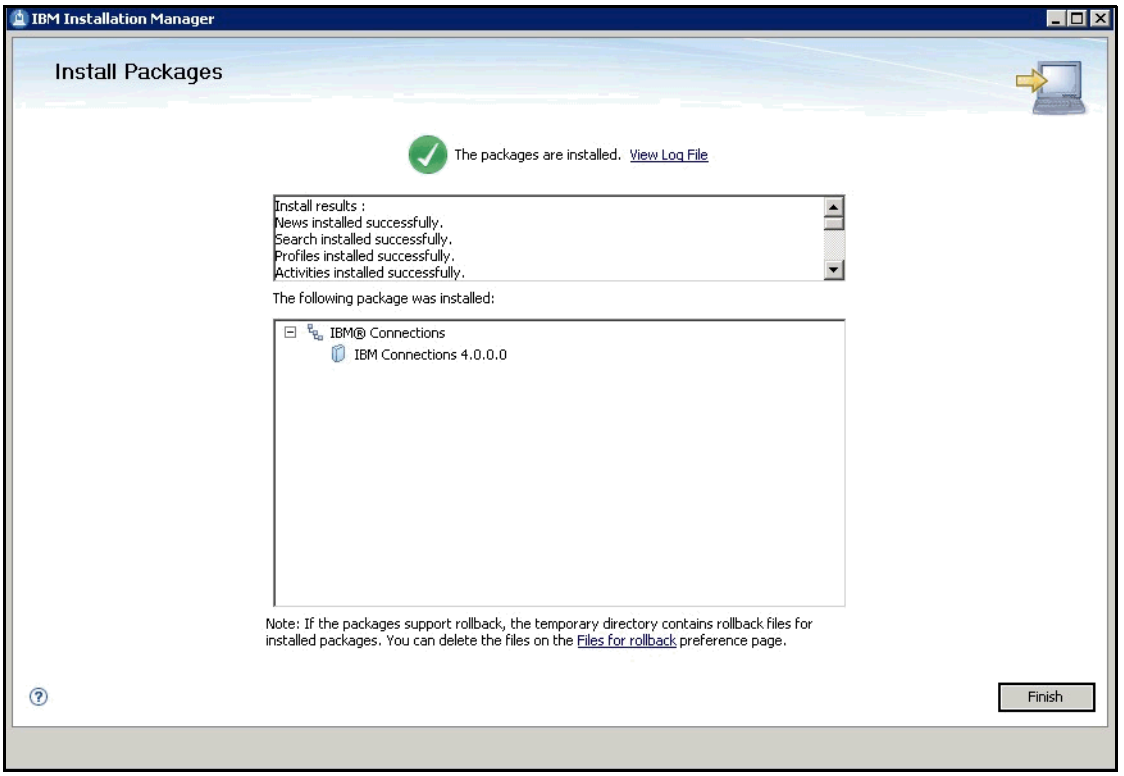

Figure 36. IBM Installation Manager: Log file

2. Post-installation tasks

Create HTTP server on Deployment Manager

__ 1. Create a web server in WebSphere Application Server Console.

Modify LCC.xml for HTTP server and dynamic host

__ 1. Replace all `sloc:static` and `sloc:interService` URLs to the HTTP server. For example:

```
<sloc:serviceReference bootstrapHost="" bootstrapPort=""
clusterName="HomepageCluster" enabled="true" serviceName="homepage"
ssl_enabled="true">
        <sloc:href>
            <sloc:hrefPathPrefix>/homepage</sloc:hrefPathPrefix>
            <sloc:static href="http://connections.example.com"
ssl_href="https://connections.example.com"/>
            <sloc:interService href="https://connections.example.com"/>
        </sloc:href>
</sloc:serviceReference>
```

__ 2. Find dynamicHosts section, enable it and change the host to the URL of Tivoli Access Manager server. For example:

```
<dynamicHosts enabled="true">
   <host href="http://tam.example.com" ssl_href="https://tam.example.com"/>
</dynamicHosts>
```

MAP roles for Metrics

__ 1. Open the Deployment Manager administration console.

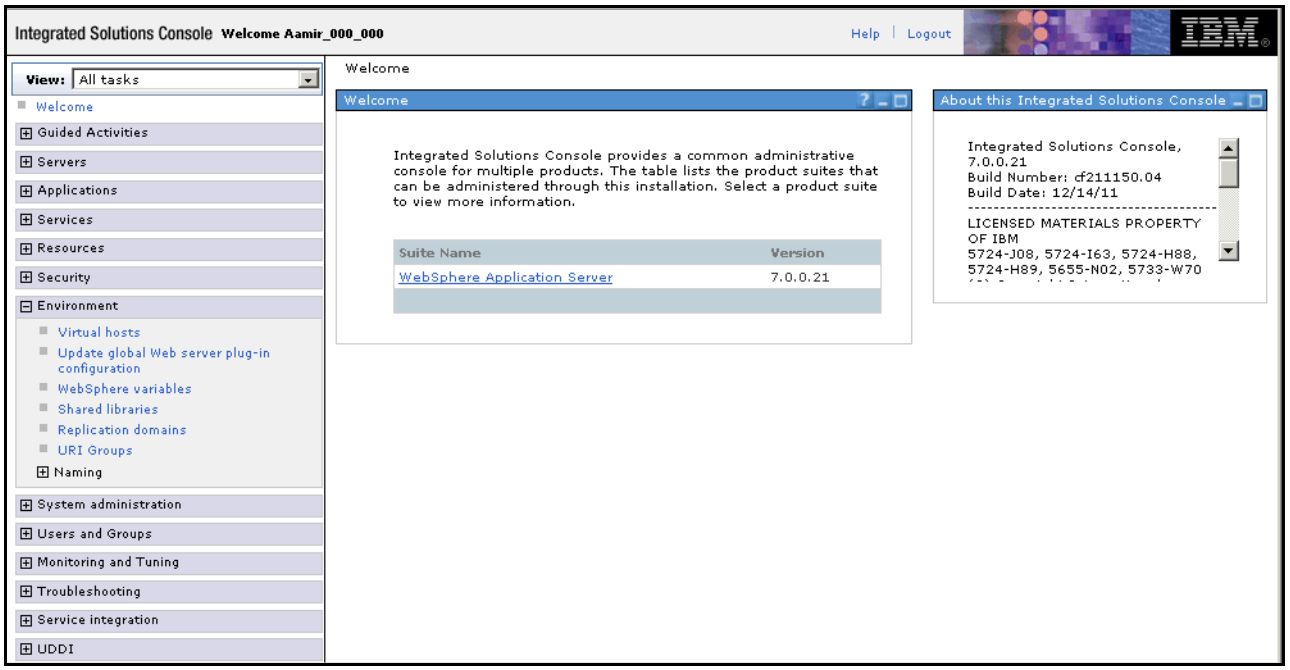

Figure 37. Integrated Solutions Console

__ 2. Go to **Metrics** application.

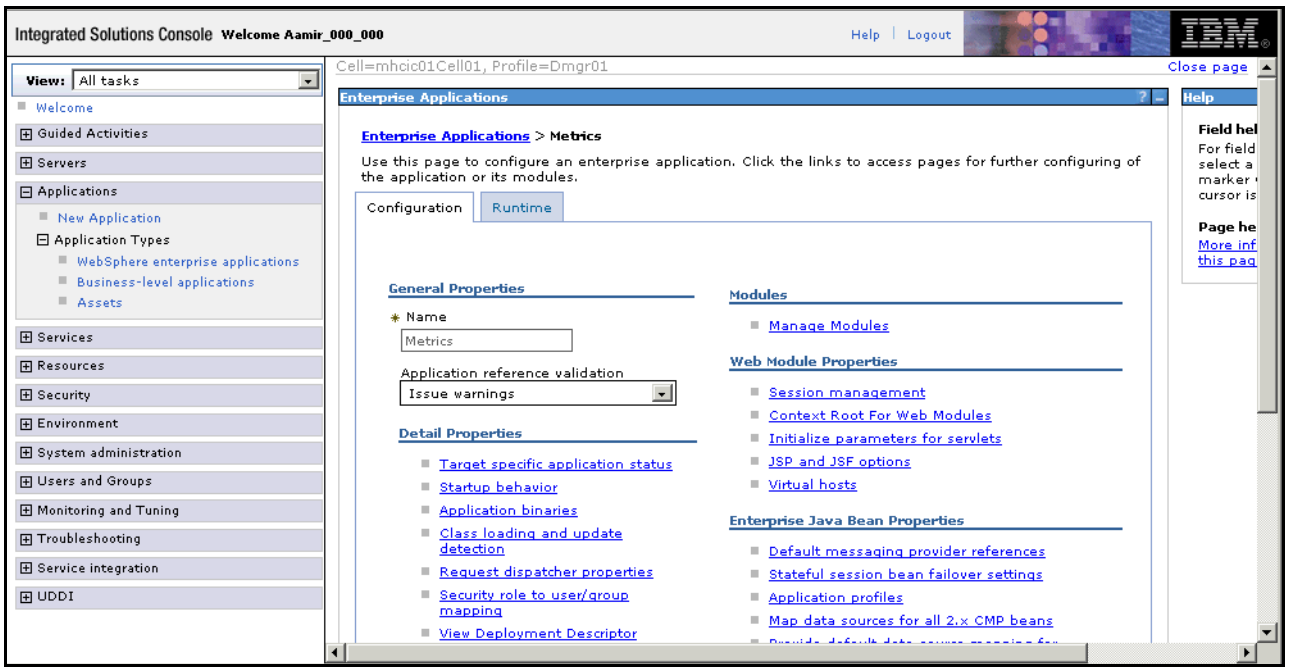

Figure 38. Enterprise Applications: Metrics

__ 3. Click **Security role to user/group mapping** and map some users/groups to the `metrics-report-run` role.

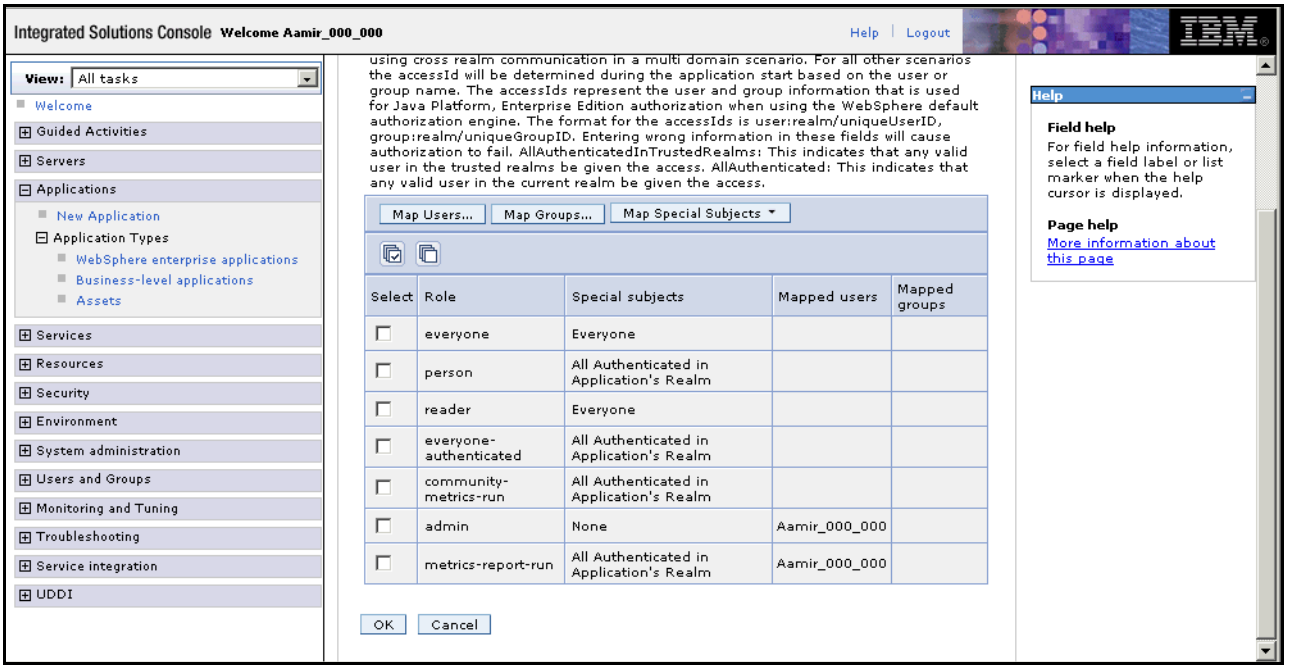

Figure 39. Mapping user/groups to the metrics-report-run

__ 4. Go to Communities application and map some users/groups to community-metrics-run role.

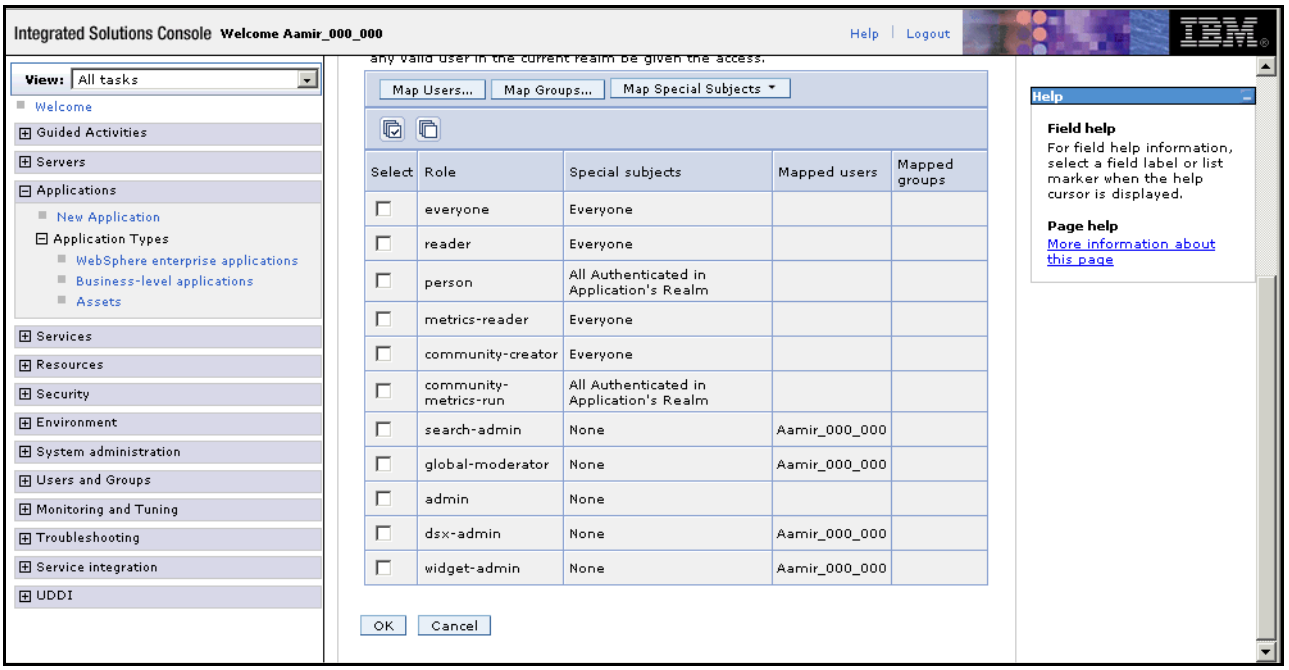

Figure 40. Mapping user/groups to the community-metrics-run

Copying Search conversion tools to local nodes

__ 1. Copy the folder of <shared_folder>\search\stellent\dcs\oiexport to local folder on each node.

__ 2. Open Deployment Manager admin console, change "FILE_CONTENT_CONVERSION" to the local copy in **Environment > WebSphere variables**.

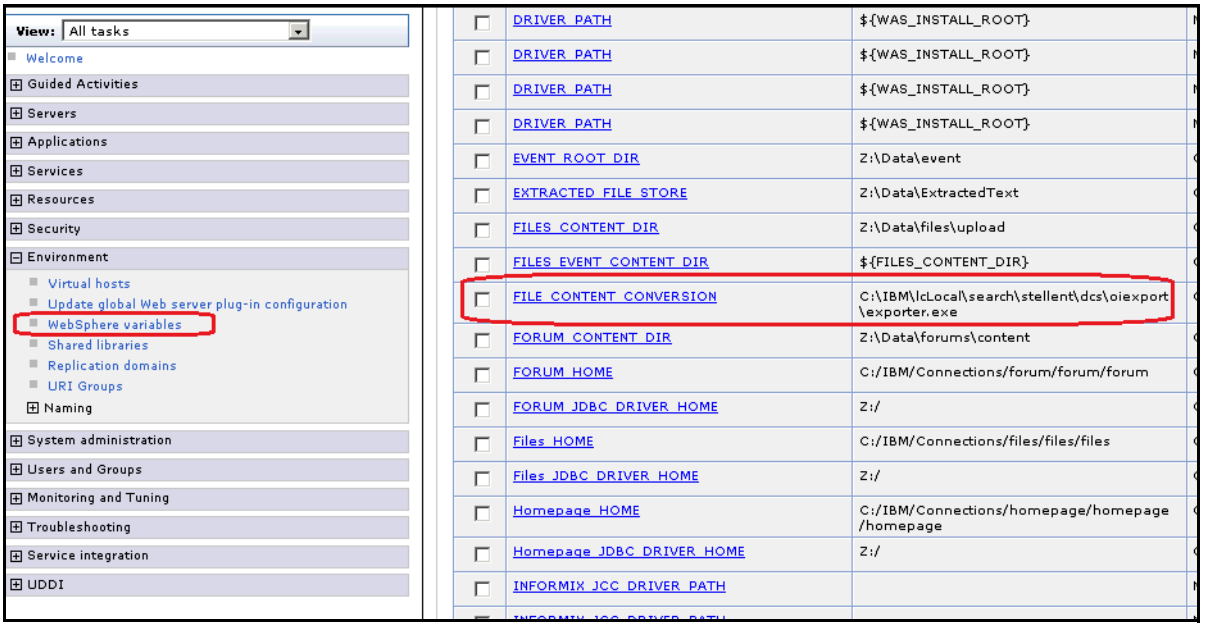

Figure 41. WebSphere variables

3. Enable Tivoli Access Manager and SPNEGO on Tivoli Access Manager side

Information

For more information about this step, see http://www-10.lotus.com/ldd/lcwiki.nsf/xpDocViewer.xsp?lookupName=IBM+Connections+4.0+documentation#action=openDocument&res_title=Enabling_single_signon_for_Tivoli_Access_Manager_with_SPNEGO_ic40&content=pdcontent.

This effort is tracking by a WTI request. No configuration owner steps here.

4. Integration with other products

Integration with Sametime Proxy server

__ 1. Open `LotusConnections-config.xml` in `<DM installation directory>\profiles\Dmgr01\config\cells\ConnectionsCell01\LotusConnections-config`.

__ 2. Find the Sametime section and replace it with Sametime proxy server information. Example:

```
<sloc:serviceReference enabled="false" isConnectClient="false" serviceName="sametimeProxy" ssl_enabled="true" is_extenal="true">
        <sloc:href>
            <sloc:hrefPathPrefix/>
            <sloc:static href="http://sametime.example.com" ssl_href="http://sametime.example.com"/>
            <sloc:interService href="http://sametime.example.com"/>
        </sloc:href>
</sloc:serviceReference>
```

Figure 42. Sametime proxy server information

__ 3. Save and close configuration file.

__ 4. Synchronize all nodes.

__ 5. Restart Connections server.

Integration with Quickr Domino server

__ 1. Install Quickr Connector for Connections, which is shipped with Connections 4.0.

__ a. Open Installation Manager on the Deployment Manager server, which should be installed with Connections 4.0.

Figure 43. IBM Installation Manager

__ b. Go to **File > Preferences**. Add a repository for QuickrConnector.

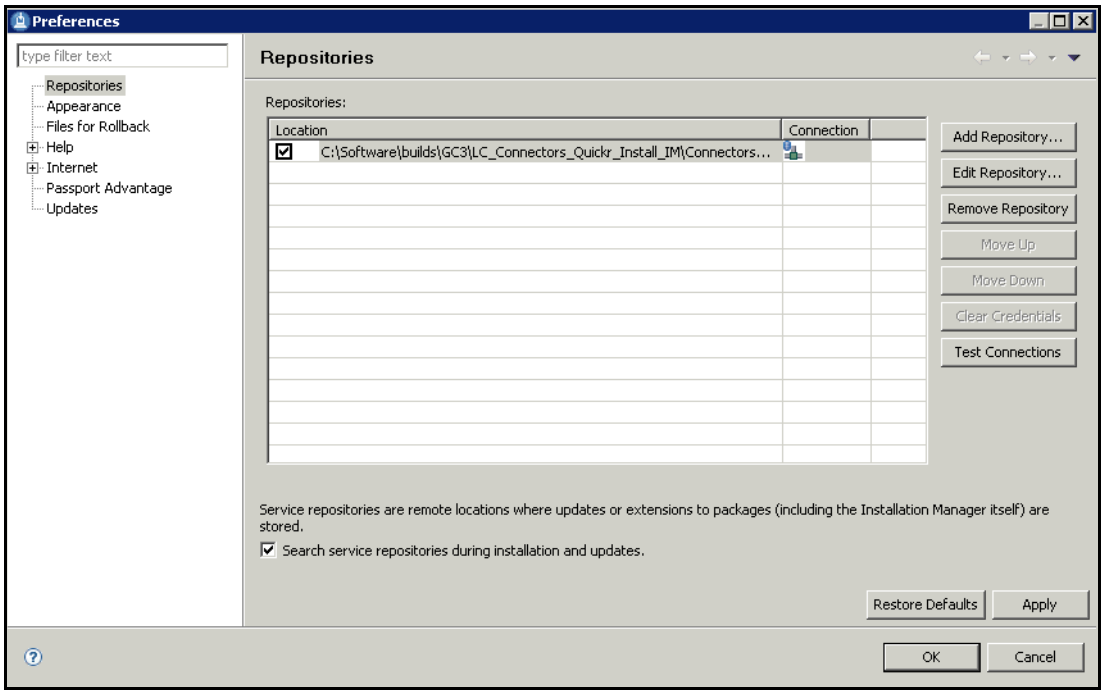

Figure 44. Preferences > Repositories

__ c. Click **Install** in the main window.

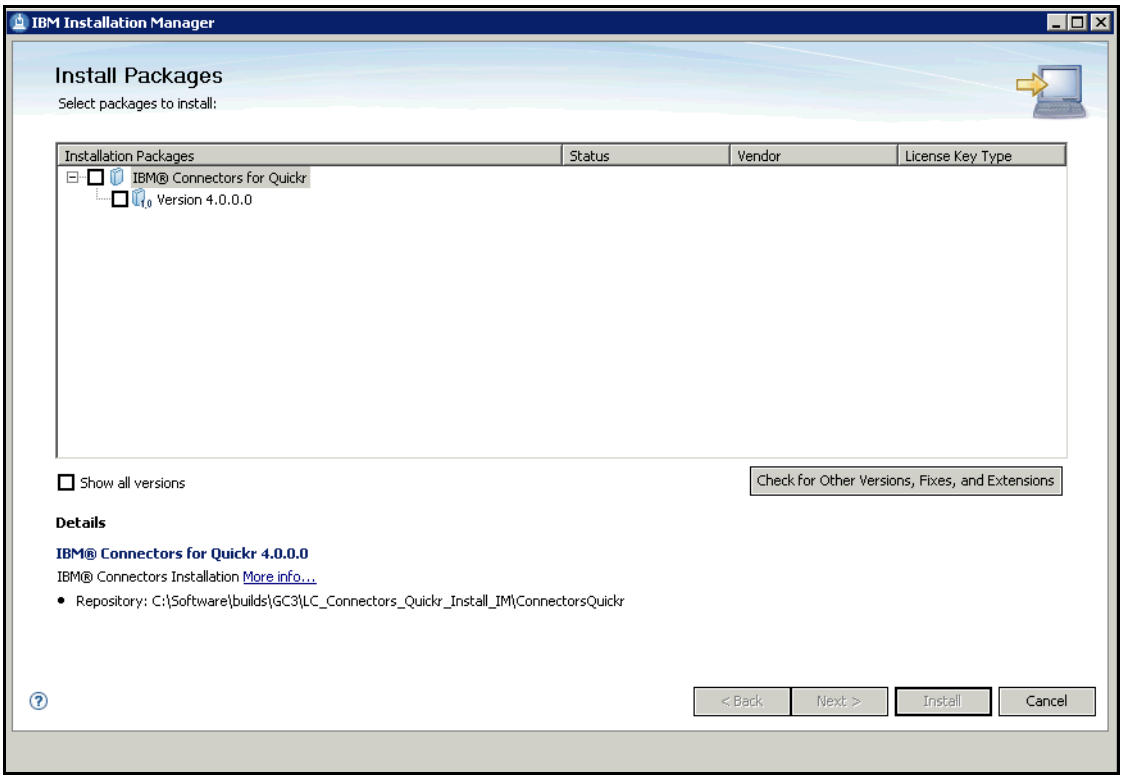

Figure 45. Select packages to install

__ d. Check IBM Connections for Quickr and click **Next**.

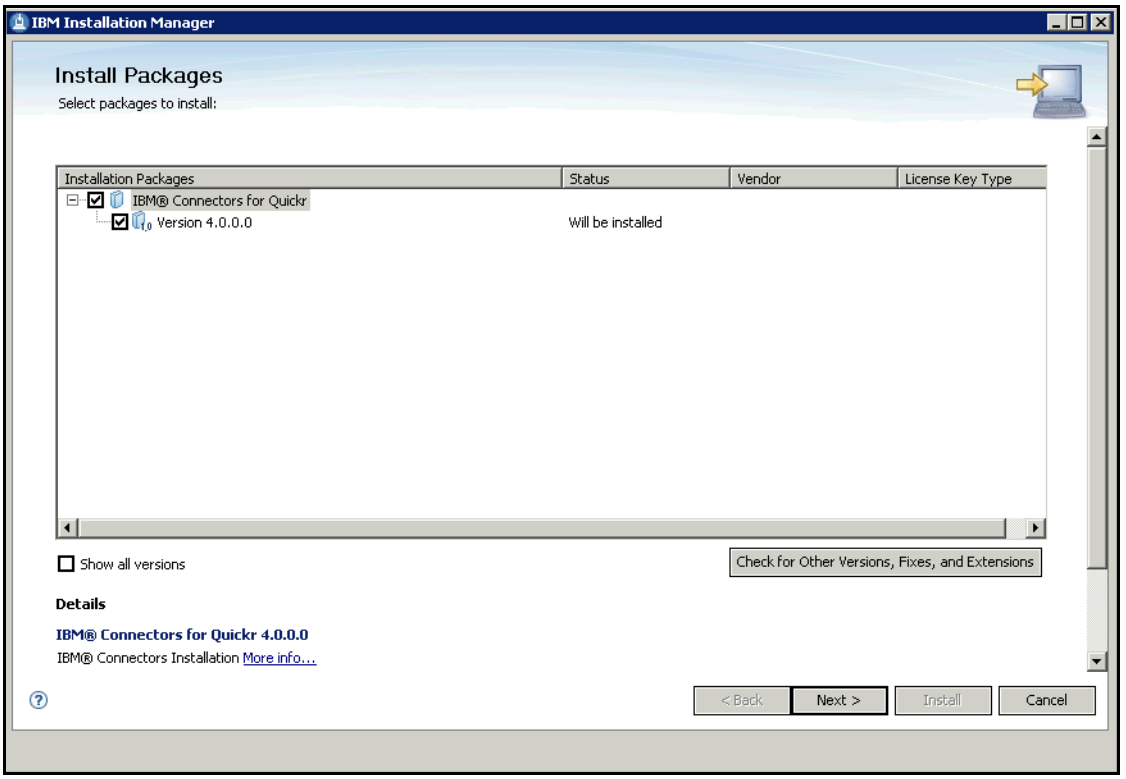

Figure 46. Select packages to install

__ e. Review the license information and click **Next**.

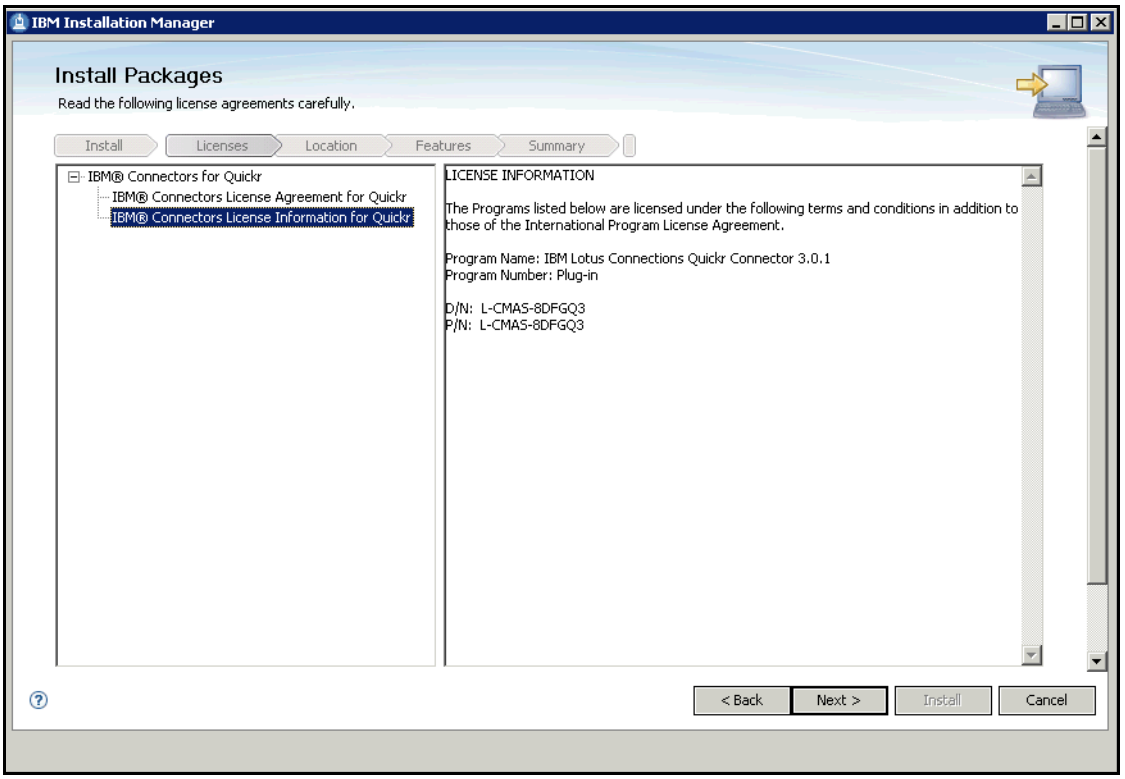

Figure 47. License agreements

__ f. Specify the installation directory and click **Next**.

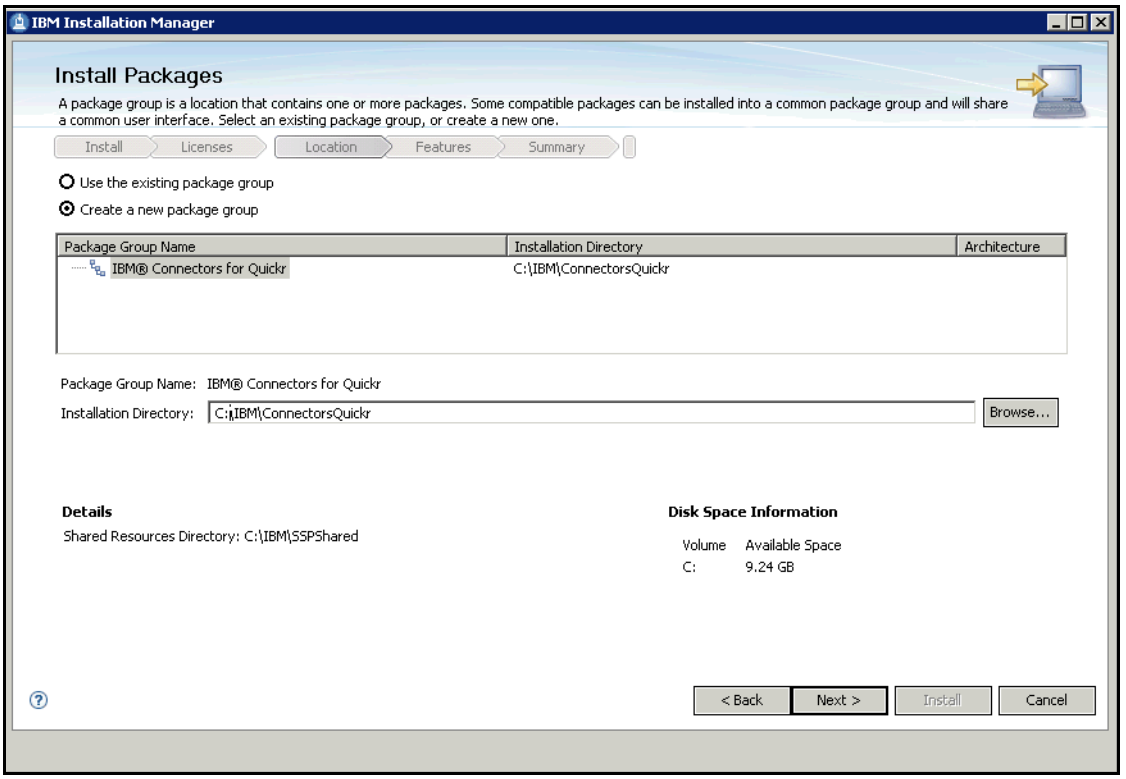

Figure 48. Installation directory

__ g. Keep this page as default and click **Next**.

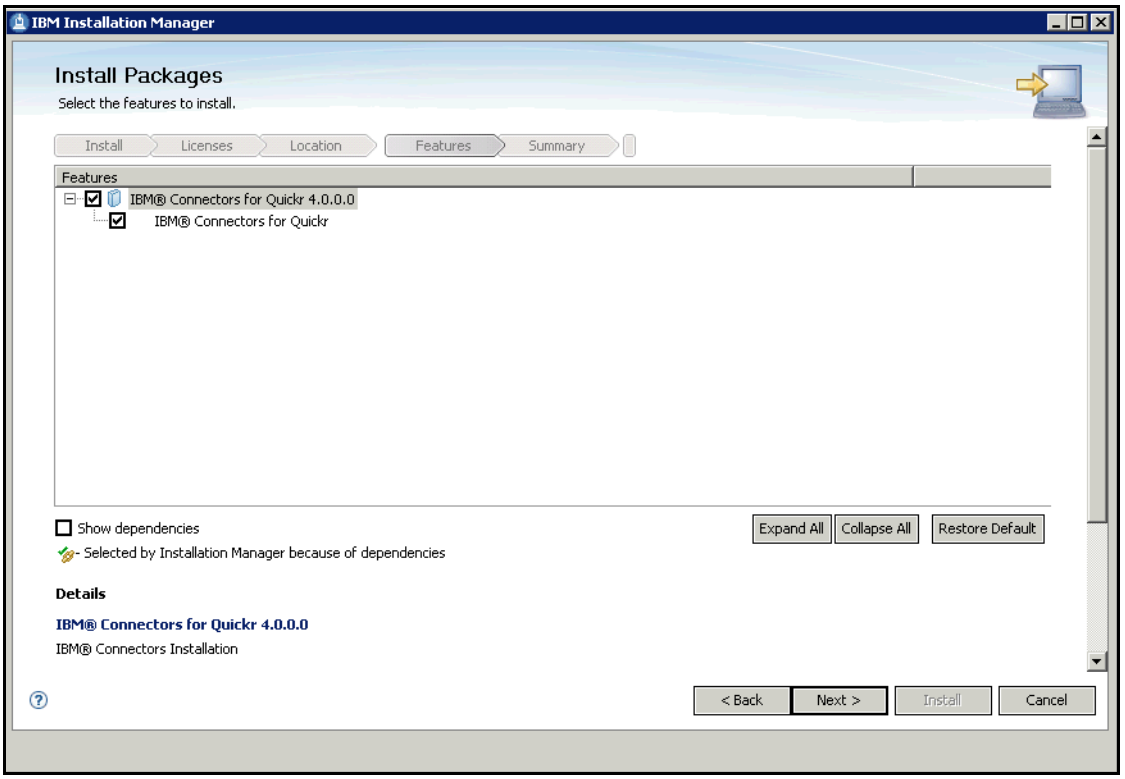

Figure 49. Default page

__ h. Specify the Quickr server information and click **Next**.

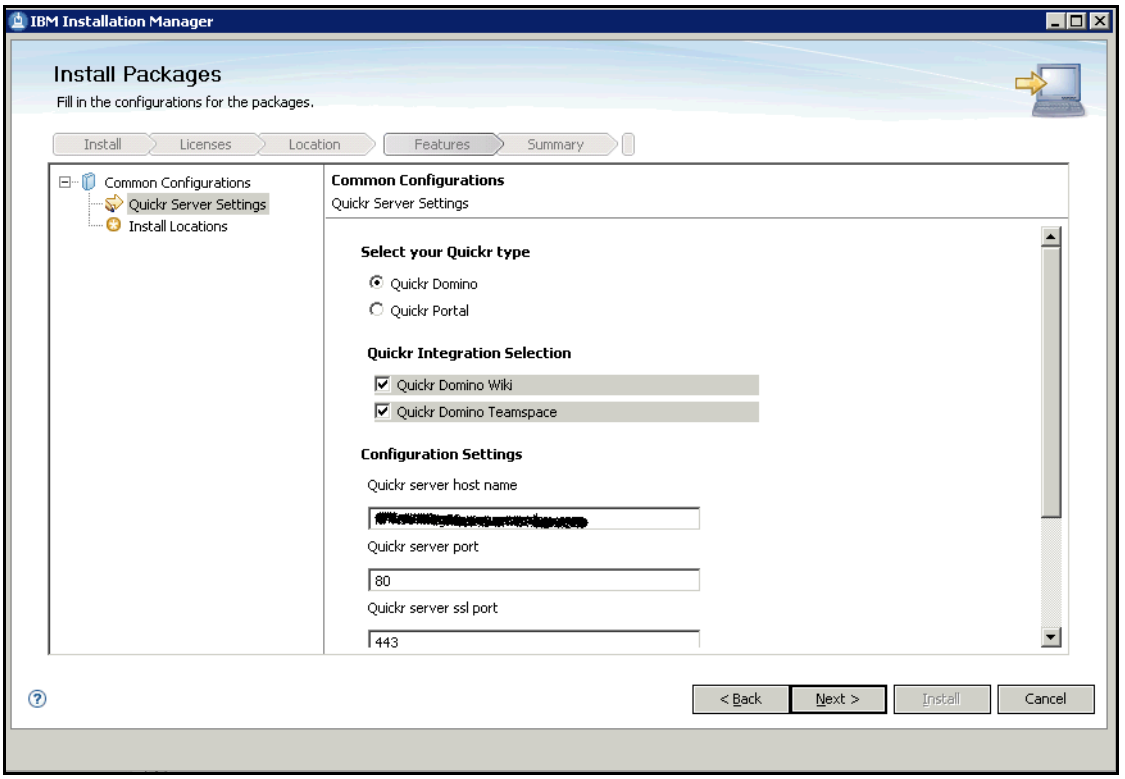

Figure 50. Quickr server information

__ i. Specify the Connections installation information and click **Next**.

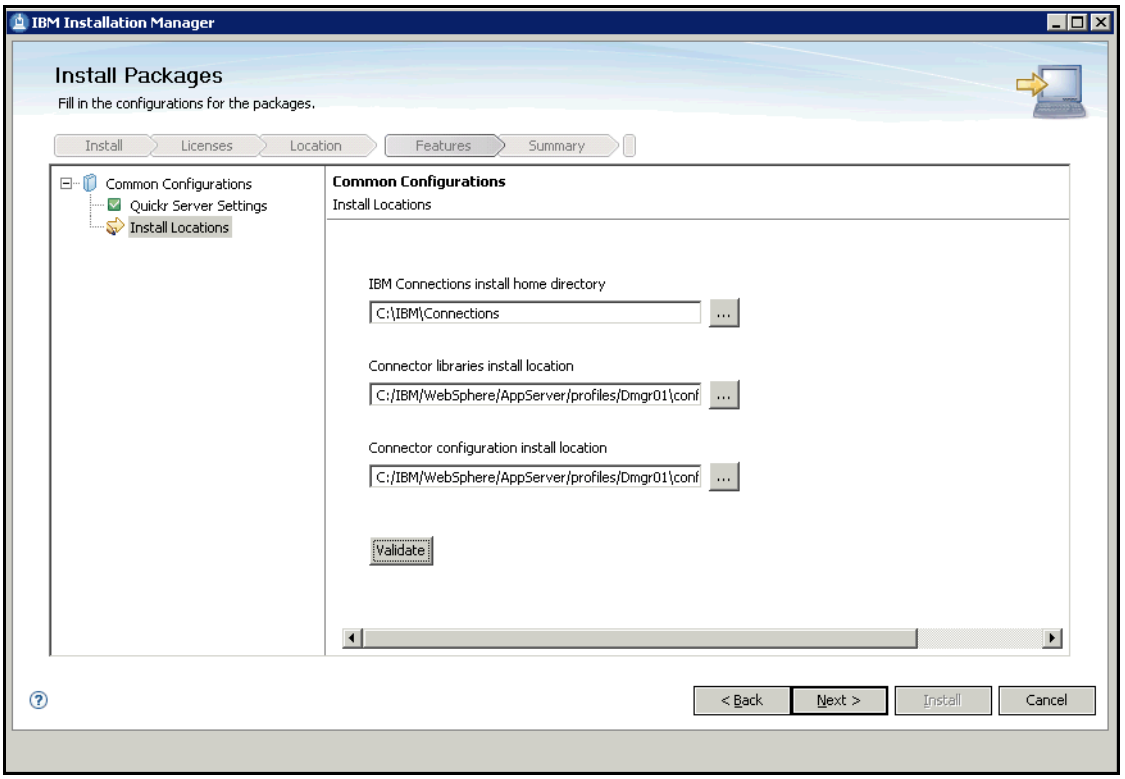

Figure 51. Connections installation information

__ j. Review the installation summary and click **Install**.

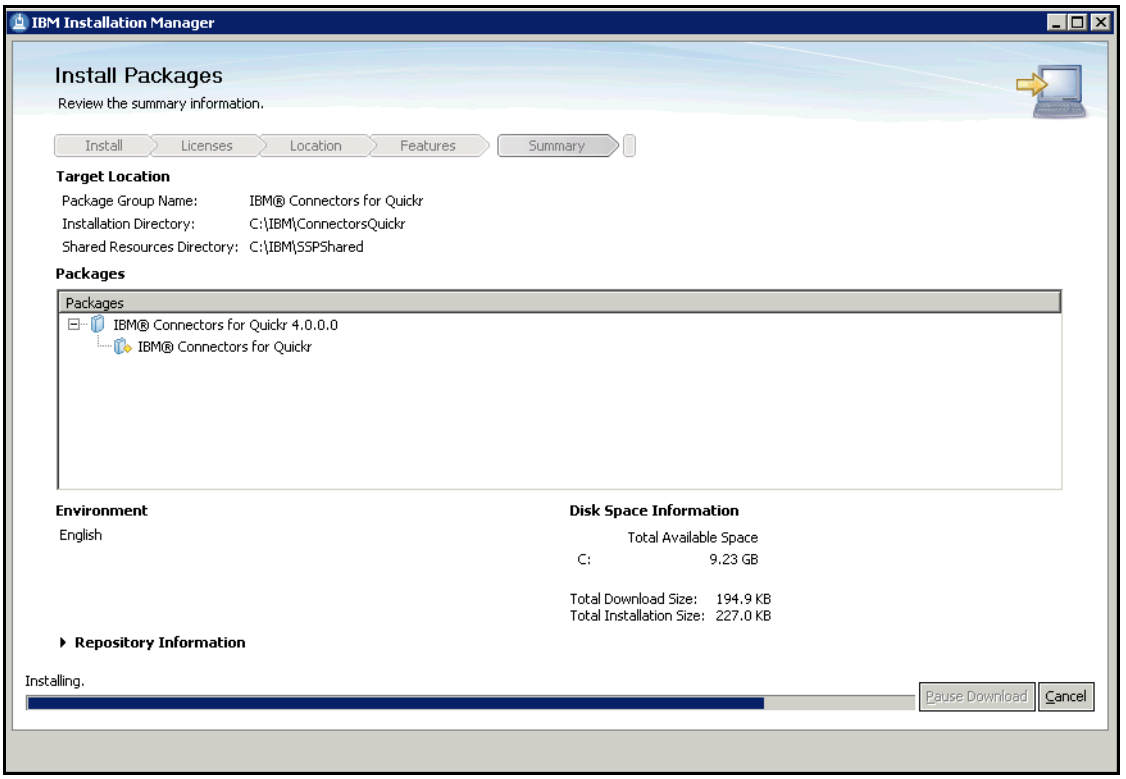

Figure 52. Summary information

__ k. Verify the log and click **Finish** to exit.

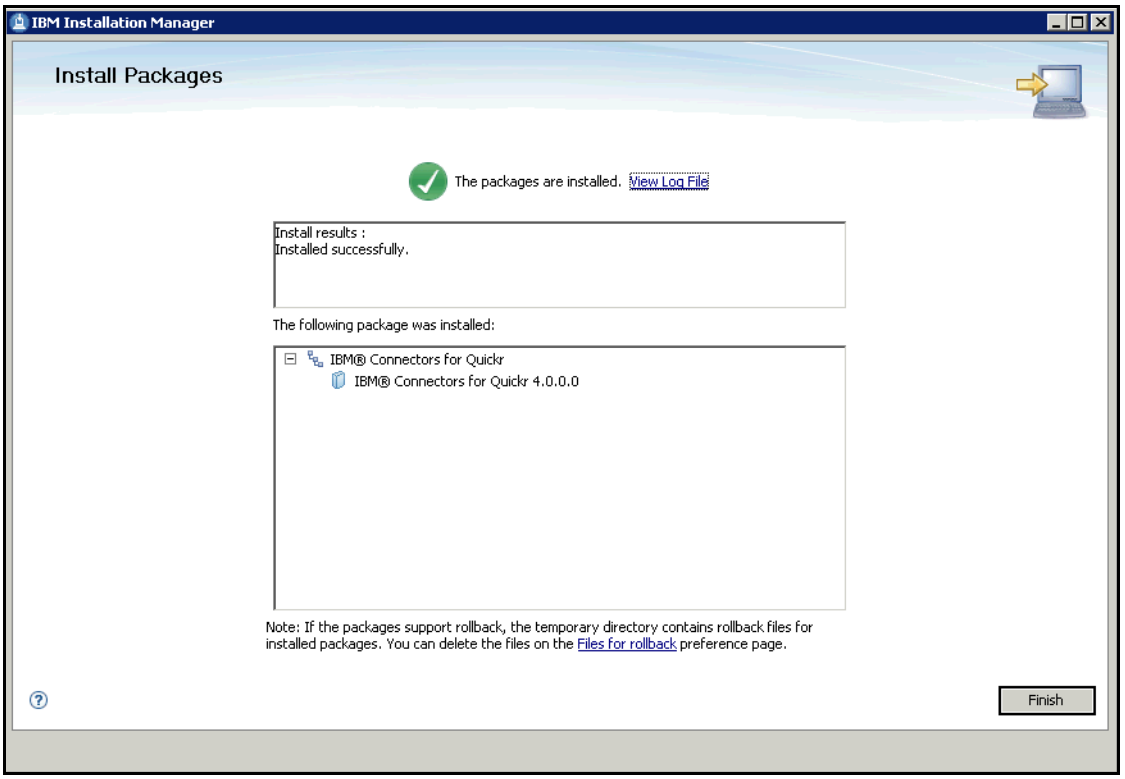

Figure 53. Log file

__ 2. Modify `communities-quickr-config.xml`.

__ 3. Open `communities-quickr-config.xml` in `<DM installation directory>\profiles\Dmgr01\config\cells\ConnectionsCell01\LotusConnections-config`.

__ 4. Found section of `comm:useSSO`, change the value to `false`. Example:

```
<comm:QuickrServer name="DefaultServer">
    <comm:host>Quickr.example.com</comm:host>
    <comm:port>80</comm:port>
    <comm:sslPort>443</comm:sslPort>
    <comm:useSSL>true</comm:useSSL>
    <comm:authentry>quickradmin</comm:authentry>
    <comm:useSSO>false</comm:useSSO>
    <comm:serverType>Domino</comm:serverType>
</comm:QuickrServer>
```

Figure 54. Quickr config xml

__ 5. Found comm:contextPath for Quickr Domino, add junction name before dm/atom/. Example:

```
<comm:QuickrServerType name="Domino">
    <comm:contextPath>QuickrD/dm/atom/</comm:contextPath>
    <comm:publicEntry title="Anonymous" id="oid:null">&lt;member type=&quot;user&quot; dn=&quot;Anonymous&quot;/&gt;
    </comm:publicEntry>
    <comm:publicEntry title="All Authenticated Users" id="oid:null">&lt;member type=&quot;user&quot; dn=&quot;Default
    &quot;/&gt;</comm:publicEntry>
</comm:QuickrServerType>
<comm:QuickrServerType name="Portal">
    <comm:contextPath>myqcs/rest/</comm:contextPath>
    <comm:publicEntry title="all authenticated portal users" id="all-authenticated-portal-users" />
    <comm:doExtraContentFeedLookup>true</comm:doExtraContentFeedLookup>
</comm:QuickrServerType>
```

Figure 55. Quickr config xml

__ 6. Save and close this configuration file.

Modify proxy-config.tpl

__ 1. Open `proxy-config.tpl` in `<DM installation directory>\profiles\Dmgr01\config\cells\ConnectionsCell01\LotusConnections-config`.

__ 2. Add follow section before "`<!-- BEGIN CUSTOMIZATIONS HERE -->`":

```
<proxy:policy url="https://tam.example.com/*" acf="none" basic-auth-support="true"
auth-support="true">
        <proxy:actions>
            <proxy:method>GET</proxy:method>
            <proxy:method>POST</proxy:method>
            <proxy:method>PUT</proxy:method>
            <proxy:method>DELETE</proxy:method>
        </proxy:actions>
        <proxy:headers>
            <proxy:header>content-type</proxy:header>
            <proxy:header>accept-encoding</proxy:header>
            <proxy:header>uit</proxy:header>
            <proxy:header>pst</proxy:header>
            <proxy:header>User-Agent</proxy:header>
            <proxy:header>Accept.*</proxy:header>
            <proxy:header>Content.*</proxy:header>
            <proxy:header>Authorization.*</proxy:header>
            <proxy:header>X-Method-Override</proxy:header>
            <proxy:header>If-.*</proxy:header>
            <proxy:header>Pragma</proxy:header>
            <proxy:header>Cache-Control</proxy:header>
            <proxy:header>X-Update-Nonce</proxy:header>
        </proxy:headers>
        <proxy:cookies>
            <proxy:cookie>DomAuthSessId</proxy:cookie>
            <proxy:cookie>LtpaToken</proxy:cookie>
            <proxy:cookie>LtpaToken2</proxy:cookie>
            <proxy:cookie>Shimmer</proxy:cookie>
            <proxy:cookie>ShimmerS</proxy:cookie>
            <proxy:cookie>JSESSIONID</proxy:cookie>
            <proxy:cookie>has</proxy:cookie>
            <proxy:cookie>PD-H-SESSION-ID</proxy:cookie
            <proxy:cookie>PD-S-SESSION-ID</proxy:cookie
        </proxy:cookies>
```



```
    </proxy:policy>
<proxy:policy url="http://tam.example.com/*" acf="none" basic-auth-support="true"
auth-support="true">
        <proxy:actions>
            <proxy:method>GET</proxy:method>
            <proxy:method>POST</proxy:method>
            <proxy:method>PUT</proxy:method>
            <proxy:method>DELETE</proxy:method>
        </proxy:actions>
        <proxy:headers>
            <proxy:header>content-type</proxy:header>
            <proxy:header>accept-encoding</proxy:header>
            <proxy:header>uit</proxy:header>
            <proxy:header>pst</proxy:header>
            <proxy:header>User-Agent</proxy:header>
            <proxy:header>Accept.*</proxy:header>
            <proxy:header>Content.*</proxy:header>
            <proxy:header>Authorization.*</proxy:header>
            <proxy:header>X-Method-Override</proxy:header>
            <proxy:header>If-.*</proxy:header>
            <proxy:header>Pragma</proxy:header>
            <proxy:header>Cache-Control</proxy:header>
            <proxy:header>X-Update-Nonce</proxy:header>
        </proxy:headers>
        <proxy:cookies>
            <proxy:cookie>DomAuthSessId</proxy:cookie>
            <proxy:cookie>LtpaToken</proxy:cookie>
            <proxy:cookie>LtpaToken2</proxy:cookie>
            <proxy:cookie>Shimmer</proxy:cookie>
            <proxy:cookie>ShimmerS</proxy:cookie>
            <proxy:cookie>JSESSIONID</proxy:cookie>
            <proxy:cookie>has</proxy:cookie>
            <proxy:cookie>PD-H-SESSION-ID</proxy:cookie
            <proxy:cookie>PD-S-SESSION-ID</proxy:cookie
        </proxy:cookies>
    </proxy:policy>
```

__ 3. Save and close this configuration file.

__ 4. Synchronize all nodes.

__ 5. Restart Connections server.