

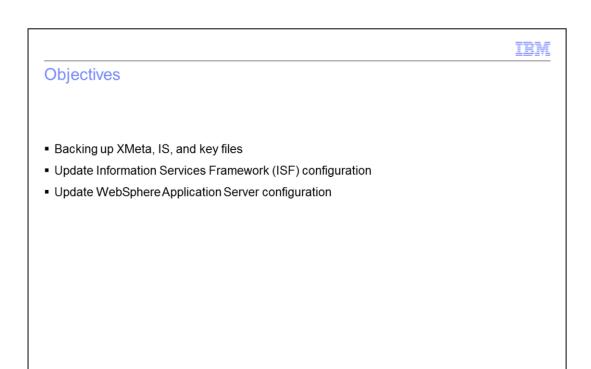
InfoSphere Information Server

Relocating the XMeta repository for Information Server version 8.5 and 8.7



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This presentation describes the steps needed to move the XMeta repository from one database server to another for Information Server version 8.5 and 8.7. If you are using a WebSphere® cluster with your Information Server installation, see the Relocating XMeta presentation for clustered WebSphere.



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The objectives of this presentation are to describe what needs to be backed up and how to update the Information Services Framework configuration, referred to as the ISF configuration. This presentation also describes what changes need to be made to WebSphere.



Backup and restore

- Backup
 - Backup XMeta, Information Server, and WebSphere
 - Backup all files being changed
 - InformationServer/ASBServer/bin/sql/database.properties
 - · InformationServer/ASBServer/apps/lib/ojb-conf.jar
 - Do not leave copy of ojb-conf.jar in Information Server or WebSphere folder hierarchy
 - Backup XMeta database
- Restore
 - Restore XMeta to new target system

Relocating the XMeta repository for Information Server version 8.5

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Before you make any changes to XMeta, Information Server, or WebSphere, it is good practice to take a complete backup of all three installations. It is safest to do a cold backup of the WebSphere Application Server by stopping WebSphere before you do the backup. It is also good practice to make a copy of all the files that are changed during this process to make it easier to revert back if necessary. The files that are key to make copies of are displayed on this slide. Ensure the backup of ojb-conf.jar is not left in the IBM Information Server or WebSphere folder hierarchy.

Backup the XMeta database on the source system and restore to the target system using the backup and restore tools provided with the database. Backup the affected files before changing them in this procedure.



Update ISF and WebSphere Configuration (1 of 5)

- Stop WebSphere Application Server
- Edit database.properties

Linux® or UNIX®:

vi /opt/IBM/InformationServer/ASBServer/bin/sql/database.properties

Windows®:

write C:\IBM\InformationServer\ASBServer\bin\sql\database.properties

Find and update URL parameter

| DB2® | url=jdbc\:db2\://NewServer.com\:50008/XMeta |
|--------------------------------|---|
| Oracle | url=jdbc\:ibm\:oracle\://hosf\:port;SID=SID |
| Oracle RAC | url=jdbc\:ibm\:oracle\://host\:port;serviceName=service;alternateServer=(host\:port, host\:port, host\:port,) |
| SQL Server | url=jdbc\:ibm\:sqlserver\://host.port\;DatabaseName=dbname |
| SQL Server - Named Instance | url=jdbc\:ibm\:sqlserver\://host\\instance_name\:port;DatabaseName=dbname |

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The first step is to stop the WebSphere Application Server. Next, edit the database.properties file in the InformationServer/ASBServer/bin/sql directory. Find and update the URL parameter to reflect the new repository server name and port. After updating, save the file.



Update ISF and WebSphere Configuration (2 of 5)

- Create temporary empty directory on your Domain Server and make it current working directory
 - Windows:

```
mkdir c:\tmp\isftmp
cd \tmp\isftmp
```

- Linux or UNIX:

mkdir /tmp/isftmp
cd /tmp/isftmp

- Extract ojb-conf.jar into temp directory
 - Linux or UNIX:

/opt/IBM/WebSphere/AppServer/java/bin/jar xf /opt/IBM/InformationServer/ASBServer/apps/lib/ojb-conf.jar

- Windows:

C:\IBM\WebSphere\AppServer\java\bin\jar xf c:\IBM\InformationServer\ASBServer\apps\lib\ojb-conf.jar

Relocating the XMeta repository for Information Server version 8.5

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Next, create a temporary directory on your domain server and set it as your current working directory.

While in your newly created temp directory, extract the ojb-conf.jar file using the jar utility of a JDK for example, the JDK in WebSphere.

This slide displays example commands. This command will extract ojb-conf.jar and place the contents in your temp directory.



Update ISF and WebSphere Configuration (3 of 5)

Edit repository_database.xml

Linux or UNIX: vi repository_database.xml Windows: write repository_database.xml

- File contains multiple dbalias entires
 - Update all dbalias attributes

| palias="oracle://host:port;SID=dbname" xample: dbalias="oracle://oracleHost:1521;SID=xmeta" palias="oracle://host:port;ServiceName=S/D;AlternateServers=(host:port, host:port, h |
|--|
| host.port,host.port,) " xample: |
| |
| 1521,rac3:1521) " |
| palias="sqlserver://host:port;DatabaseName=dbname" xample: dbalias="sqlserver://sqlHost:1433;DatabaseName=xmeta" |
| palias="sqlserver://host\named_instance:port;DatabaseName=dbname" xample: dbalias="sqlserver://sqlHost\my_instance:1433;DatabaseName=xmeta" |
| X |

The next step is to edit the repository_database.xml file that is in your temp directory. Use the vi command for Linux and UNIX or open the file in Wordpad by using the write command if on Windows. Search for all of the dbalias attributes. Use the table displayed on this slide to correctly update this field. Edit every dbalias attribute in the file with the new host, port and dbname value, and save the file.

If you are using Sql Server named instances, note that the format is sqlserverHostname\named_instance.



Update ISF and WebSphere Configuration (4 of 5)

- Rejar ojb-conf.jar
 - Linux or UNIX:

/opt/IBM/WebSphere/AppServer/java/bin/jar cf /opt/IBM/InformationServer/ASBServer/apps/lib/ojb-conf.jar .

- Windows:
 - c:\IBM\WebSphere\AppServer\java\bin\jar cf \IBM\InformationServer\ASBServer\apps\lib\ojb-conf.jar .
- Copy ojb-conf.jar to WebSphere
 - Linux or UNIX:
 - cp /opt/IBM/InformationServer/ASBServer/apps/lib/ojb-conf.jar /opt/IBM/WebSphere/AppServer/profiles/InfoSphere/informationServer/apps/lib
 - Windows:
 - copy c:\IBM\InformationServer\ASBServer\apps\lib\ojb-conf.jar c:\IBM\WebSphere\AppServer\profiles\InfoSphere\informationServer\apps\lib
- Remove temp directory

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After updating the dbalias attribute, re-jar ojb-conf.jar with the updated repository_database.xml file using the jar utility of a JDK. For example, the JDK in WebSphere. Be sure you are still in your temp directory. This slide displays example commands. Be sure your paths are correct for your install. You must remember to put the "space dot" at the end of the jar command.

Next, copy the ojb-conf.jar file to the WebSphere installation using the example command displayed on this slide. After this step is complete, delete the temp directory.

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Update ISF and WebSphere Configuration (5 of 5)

- If XMeta password has changed
 - Run AppServerAdmin command

Linux or UNIX:

/opt/IBM/InformationServer/ASBServer/bin/AppServerAdmin.sh -db
-user <xmetaUser> -password <xmetaPassword>

Windows:

\opt\IBM\InformationServer\ASBServer\bin\AppServerAdmin.bat -db
-user <xmetaUser> -password <xmetaPassword>

- "AppServerAdmin -db" at 8.5 will also run File Propagator Tool
 - Be sure to have 1.25GB+ free space in /tmp (AIX/Linux), /var/tmp (Solaris, HPUX) or %TEMP% (Windows)
 - · AppServerAdmin will take much longer to run than in previous versions
- Test changes
 - Linux or UNIX

ASBServer/bin/PropertyAdmin.sh -d

Windows

ASBServer\bin\PropertyAdmin.bat -d

Restart WebSphere Application Server

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If your XMeta password has changed, you will need to run AppServerAdmin to update the XMeta password. The AppServerAdmin -db command will run the FilePropagator tool so the command will take longer to complete than in previous versions of Information Server and requires at least 1.25GB of free space in temp.

Run the AppServerAdmin command as displayed in the example on this slide.

Once AppServerAdmin is complete, it is a good idea to check that the new ojb-conf.jar is correct. To do this, run the PropertyAdmin command in ASBServer/bin. Be sure that this command returns successfully. If it does not, go back and check the changes you made to ojb-conf.jar before continuing. If the test is successful, restart WebSphere.



Update Version.xml

- Update <IS_HOME>/Version.xml on InformationServer server
- Open Version.xml in text editor
 - Locate XML element
 - <PersistedVariable encrypted="false" name="xmeta.db.hostname" persistent="true" readonly="false" value="myserver"/>
 - Modify "value" attribute with new XMeta server name
 - SQLServer with named instances required format
 - value="myserver\named_instance"
 - Locate next XML element
 - <PersistedVariable encrypted="false" name="xmeta.db.port" persistent="true" readonly="false" value="50000"/>
 - Modify "value" attribute with new port number

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Next, update the values in the Version.xml file. This file contains the installation records that are used by the installation program. Keeping the file current avoids problems with future installations. The Version.xml file is located in the IBM InfoSphere® Information Server installation directory on the same server as the ojb-conf.jar file.

Open the Version.xml file in a text editor and locate the PersistedVariable XML element that has the name attribute equal to xmeta.db.hostname. You will need to modify the value attribute to contain the correct XMeta server name. Note that if you are using SQL Server with named instances, you will need to use the format of servername\named_instance for the XMeta server name.

Next you need to locate the PersistedVariable XML element that has the name attribute equal to xmeta.db.port. Modify the value for port if your port number has changed. Save your changes.



DB2 clustered or HADR configurations ONLY

- Update automatic client reroute with new host name and port information
 - Login to primary node
 - Run the following command
 - db2 update alternate server for database database using hostname standby_IP port port

Example:

db2 update alternate server for database XMeta using hostname 192.0.2.7 port $60000\,$

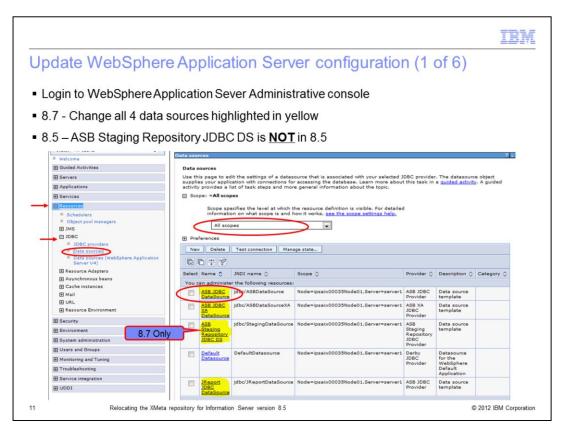
Restart WebSphere

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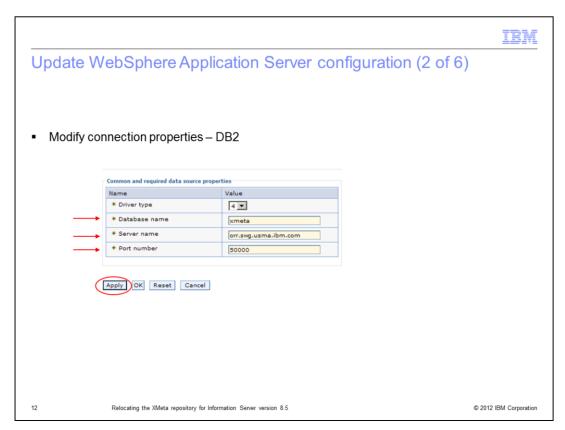
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In an IBM InfoSphere Information Server installation with a clustered DB2 database system setup, you must update the automatic client reroute with the new host name and port information. This slide displays the format of the update alternate server command along with an example of the command. Once that is complete, restart WebSphere.

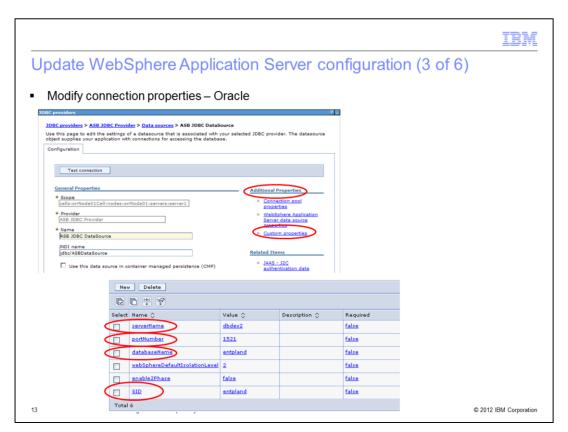
If you are not using Information Server with a clustered DB2 database, skip this step.



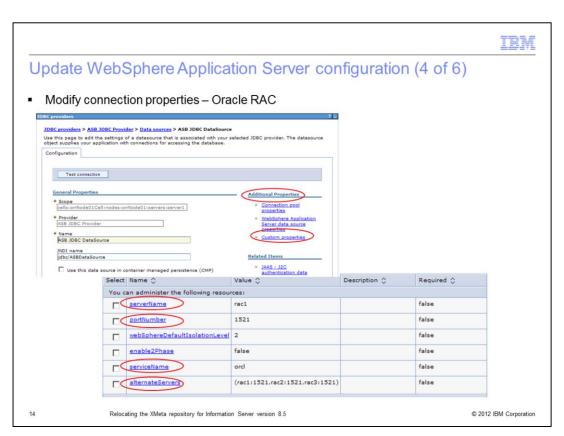
Login to the WebSphere Application Server Administrative Console. Click the Resources tab on the left side and then click JDBC and then Data sources underneath. This will display four data sources in version 8.5 and five data sources in 8.7. In addition to the four in 8.5, 8.7 also includes the ASB Staging Repository JDBC data source. The changes described in the next few slides will need to be done on all of the data sources highlighted in yellow on this slide. To start, click the first data source, ASB JDBC DataSource. If you do not see the data sources displayed on this slide, go to the Scope section, click the drop down and select All scopes. All of the data sources should now appear in the box.



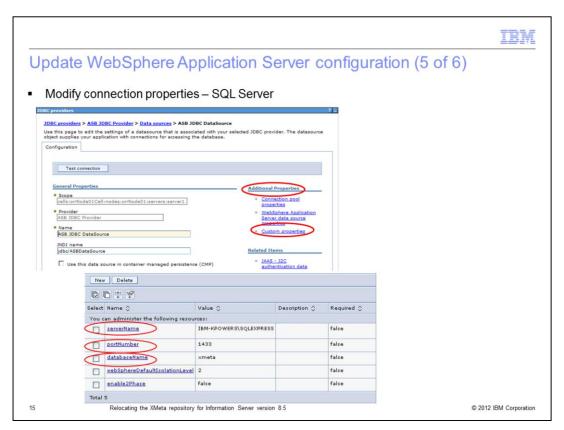
For XMeta on DB2, scroll to the bottom of the screen for the data source and modify the connection properties as required. Click Apply.



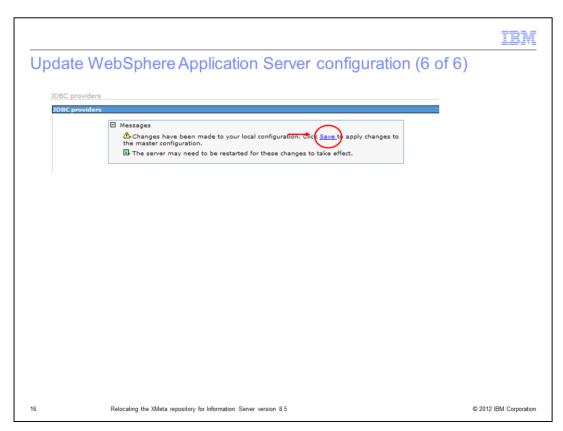
For XMeta on Oracle, on the Configuration tab, click Custom Properties on the right side under the Additional Properties heading. Once in Custom Properties, click the settings that have changed and set them to the appropriate values. Click Apply.



This slide displays an example of an Oracle RAC configuration. Click the values that have changed and set the values appropriately.



This slide displays an example on SQL Server. Click the settings that have changed and set them to the appropriate values. If you are using SQLServer named instances, be sure your server name is in the format of servername\instance name as displayed in the example on this slide. Click Apply.



In the messages box at the top of the page, click Save to save to the master configuration.



Once the changes have been saved, test your new connection by clicking the Test connection button at the top of the Data Sources page where you made the server changes. If the connection is successful, you will see a message at the top of the screen indicating success. If it is unsuccessful, go back and check the modified data source settings.

Once the test completes successfully, go back and modify the remaining data sources in the same manor. After all changes have been made, saved, and successfully tested, stop and restart WebSphere.



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