## InfoSphere Information Server

Relocating the XMeta repository for Information Server version 8.0.1 and 8.1



This presentation describes the steps needed to move the XMeta repository from one database server to another for Information Server version 8.0.1 and version 8.1.

IBM

	IBM
Objectives	
<ul> <li>Backing up XMeta, IS, and key files</li> </ul>	
<ul> <li>Update Information Services Framework (ISF) configuration</li> </ul>	
<ul> <li>Update XMeta username and password</li> </ul>	
<ul> <li>Update WebSphere<sup>®</sup> Application Server configuration</li> </ul>	
2 Relocating the XI/leta repository for Information Server version 8.0.1 and 8.1	© 2011 IBM Corporation

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 will also describe how to update the XMeta user name and password, and what changes need to be made to WebSphere.



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 will be 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 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.



The next step is to update the ISF configuration. To do this, first you will need to stop WebSphere. cd into the Websphere/AppServer/bin directory and run ./stopServer.sh server1 –username <user> –password <password>, where <user> is your wasadmin username and <password> is your wasadmin password.

After stopping the WebSphere Application Server, create a temporary directory and set it as your current working directory by running:

mkdir /tmp/isftmp then cd /tmp/isftmp

While in your newly created temp directory, extract the ojb-conf.jar file using the jar utility of a JDK<sup>™</sup>. For example, the JDK in WebSphere. Use the command shown on this slide for your version of Information Server. You will need to adjust your path to the Information Server base directory to match your installation. This command will extract ojb-conf.jar and place the contents in your temp directory.

		TBM
Updates to ISF	configuration (2 of 3)	
<ul> <li>Edit repository_data</li> </ul>	base.xml	
Linux <sup>®</sup> or UNIX <sup>®</sup> :		
vi repository_database	e.xml	
<u>Windows®:</u>		
Notepad repository_da	atabase.xml	
DB2®	dbalias="//host:50000/dbname"	
Oracle	dbalias="oracle://host:1521;SID=dbname"	
MS SQLServer	dbalias="sqlserver://host:1433;DatabaseName=dbname"	
5 Relocating th	e XIIIeta repository for Information Server version 8.0.1 and 8.1	© 2011 IBM Corporation

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 Notepad if on Windows. Search for the dbalias attribute. Use the table displayed on this slide to correctly update this field. Edit the dbalias attribute with the right host, port and dbname value, and save the file.



After updating the dbalias attribute, you can now 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. Use the command displayed on this slide for your version of Information Server to rejar the file. You will need to adjust your path to the Information Server base directory to match your installation.

You must remember to put the "space dot" at the end of the jar command. After this step is completed, you need to clean up the temp directory. If you are using 8.1, you should delete the temporary directory. If you are on 8.0.1, you need to remove all the files under the temp directory but leave the directory itself as you will need to use it again in the next step.

	TBM
Updates to ISF configuration – 8.0.1 ONLY (1 of 2)	
<ul> <li>Repeat dbalias modification to ojb-conf-pojo.jar</li> </ul>	
Extract ojb-conf-pojo.jar /opt/IBM/WebSphere/AppServer/java/bin/jar xf /opt/IBM/InformationServer/ASBServer/apps/sql/d	ojb-conf-pojo.jar
<ul> <li>Change dbalias in repository_database.xml</li> </ul>	
<ul> <li>Jar ojb-conf-pojo.jar /opt/IBM/WebSphere/AppServer/java/bin/jar cf /opt/IBM/InformationServer/ASBServer/apps/sql/c</li> </ul>	pjb-conf-pojo.jar .
7 Relocating the XIMeta repository for Information Server version 8.0.1 and 8.1	© 2011 IBM Corporation

The next steps are for the Information Server 8.0.1 only. If you are using version 8.1, skip this step.

Next, while in your temp directory, you will need to extract the ojb-conf-pojo.jar file using the jar utility of a JDK<sup>™</sup>. For example, the JDK in WebSphere. Repeat the same modification of the dbalias attribute in the repository\_database.xml file as you just made for the ojb-conf.jar file and then re-jar ojb-conf-pojo.jar.

		IBA
Jpdates to I	SF configuration – 8.0.1 ONLY (2 of 2)	
Edit Information	// CDC - monton	
	Server/ASBServer/etc/package.compiler.properties	
Look for correct	t Parameter Key	
DB2	PackageCompiler.connectionURL.db2_8_nls	
Oracle	PackageCompiler.connectionURL.oracle10g_nls	
MS SQLServer	PackageCompiler.connectionURL.sqlserver_nls	
Parameter value	e format	
DB2	jdbc:db2://host:50000/dbname	
Oracle	jdbc:ibm:oracle://host:1521;SID=dbname	
MS SQLServer	jdbc:ibm:sqlserver://host:1433;DatabaseName=dbname	
<u></u>		
Rein	scating the XIMeta repository for Information Server version 8.0.1 and 8.1	© 2011 IBM Corpora

The next steps are still for Information Server 8.0.1 only. If you are using version 8.1, skip this step.

Edit the package.compiler.properties file located in the InformationServer/ASBServer/etc directory. Look for the PackageCompiler.connectionURL parameter key associated with your XMeta database. Update the host, port and dbname with the new values and save the file.

	IBM
Updates to ISF configuration	
<ul> <li>Edit database.properties</li> </ul>	
Linux or UNIX:	
vi /opt/IBM/InformationServer/ASBServer/bin/sql/database.properties	
Windows:	
notepad C:\IBM\InformationServer\ASBServer\bin\sql\database.properties	
Update URL parameter     Example:	
url=jdbc\:db2\://NewServer.com\:50008/XMeta	
9 Relocating the XIMeta repository for Information Server version 8.0.1 and 8.1	© 2011 IBM Corporation

Edit the database.properties file in the InformationServer/ASBServer/bin/sql directory. Update the URL parameter to reflect the new repository server name and port. After updating, save the file.



To complete the updates to the ISF configuration, run the AppServerAdmin.sh command to update the XMeta username and password. The command can be found in the InformationServer/ASBServer/bin directory. Replace the <username> with your XMeta Database username and the <password> with the correct password. Once the AppServerAdmin command has run successfully, as root, restart WebSphere. cd to the WebSphere/AppServer/bin directory and type ./startServer.sh server1.



Next, update 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<sup>®</sup> 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 Property name = "XMetaDatabaseHost" XML element. 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 Property name="XMetaDatabasePortNumber" XML element. Modify the value for the port number if your port number has changed. Save your changes.

e WebSphere An	plication Server	configuration (1 of 6	5)
e webephere np	phoution corver (	borniguration (1 of c	-)
		1	
to webSphere Application	ion Sever Administrative	e console	
hostname>:0043/ihm/c	onsole		
	onsole		
Welcome wasadmin   Logout   Supp	port   Help		-
= Welcome	JDBC providers		
Guided Activities	JDBC providers		
E Servers	10.80 annuideur		
Applications	JDBC providers JDBC providers are used by the install	ed applications to access data from databases.	
Resources	Scope: Cell=vegasNode01Cell, Nod	e=vegasNode01, Server=server1	
Jms Providers     Econce Adapters     Resource Adapters     Arynchronous beans     Schedulers     Cache instances     Object pool managers     Mail Providers     URL Providers     Resource Environment Providers	C cell : vegasNode01cell C Node : vegasNode01 C Server : server1 Apply E Preferences	icope specifies the level at which the scource definition is withle. For detailed nformation on what scope is and how it onks, <u>see the scope settings help</u>	
E Security	New Delete		
Environment	DD # 9		
System administration	Select Name A	Description A	
Monitoring and Tuning	ASB JDBC Provider		
Troubleshooting			
Service integration	ASB XA JDBC Provider		
E UDDI	Cloudscape JDBC Provider	Cloudscape 51 embedded JDBC2- compliant Provider	
	Cloudscape JDBC Provider (XA)	Built-in Cloudscape JDBC Provider (XA)	

Login to the WebSphere Application Server Administrative Console. Click the Resources tab on the left side and then click JDBC Providers underneath. In the middle of the screen, select the server : server1 radio button, and click Apply. Next click ASB JDBC Provider link in the box below the Apply button.

	IBM
	<u>IBM</u>
13 Relocating the XMeta repository for information Server version 8.0.1 and 8.1	© 2011 IBM Corporation

In the ASB JDBC Provider window, click Data sources under Additional Properties on the right side of the screen.

					IBM
Update \	NebSphere Ap	oplication Serv	ver configurat	ion (3 of 6)	
<ul> <li>Open eac</li> </ul>	h data Source liste	d and perform steps	s listed		
JDBC pr	oviders				2 _
JDBC	providers > ASB JDBC Provide	r > Data sources			
A dat	a source is used by the applicat	ion to access data from the data	base. A data source is created	under a JDBC provider, which	
suppl	ies the specific JDBC driver impl	ementation class.			
M	ererences				
Selec	t Name	JNDI name 🗘	Description 🗘	Category 🗘	
	ASB JDBC DataSource	jdbc/ASBDataSource	Data source template		
	JReport JDBC DataSource	jdbc/JReportDataSource	Data source template		
Tota	12				
	Coloradia di Malaisa anna ila	· · · · · · · · · · · · · · · · · · ·		e 20	
14	Relocating the XMeta reposito	ry for Information Server version 8.0.1	and 8.1	© 201	11 IBM Corporation

You may have more than one data source listed. Perform the steps described on each data source in the list. Click the link for the data source to be modified.



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

			IBN
ndate WebSn	here Application	Server configuration (5 of 6)	
puate webep	nere Application		
Modify connection	n properties – Oracle a	and SQL Server	
JDBC providers > ASB JDBC Provider > Data	sources > ASB JDBC DataSource		
A data source is used by the application to ac which supplies the specific JDBC driver implem	ccess data from the database. A data source is creat mentation class.	ted under a JDBC provide	
Configuration			
Test connection			
General Properties		Additional Properties	
Scope     cells:fiiNode01Cell:nodes:fiiNode01:se	rversiserver1	= Connection	
* Name		properties	
AS8 JDBC DataSource		WebSchere     Application	
		Derver Gate	
JNDI name jdbc/ASBDataSource		properties	
JNDI name Jdbc/ASBDataSource	nanaged persistence (CMP)	Assistant properties  Custom  properties	
JIDI name jdbc/ASBDataSource	nanaged persistence (CMP)	accentias • Custom accentias	
JIOI name [sdbc/ASBDataSource	nanaged persistence (CMP)	accentias * Custor accentias	
Job / Rame Job / ABD tas Source Use this Data Source in container m New Delete	nanaged persistence (CMP)	* Costentinas * Costentina arcopantinas	
Ide/ABDtaSource	nanaged persistence (CMB)	* Gasterias * Gasteria accorditas	
Ide/ABDItaSource	value $\Diamond$ Description $\Diamond$	Southing     Containing     Con	
Ide/ABDItaSource	Value      Description	Southing     Containing     Containing     Required     faire	
Iter name       Iter name	Value      Description      dbdav2     1321	Second Max     S	
Iter rame	Value      Description      dbdav2     1321     entpland	Second was     S	
International State     International State	Value (CMP) Value (CMP) Value (CMP) State	Required fairs fairs fairs fairs	
International State     International State	Value (CMP) Value (CMP) Value (CMP)  Value (CMP)  State Stat	Required     faire     faire     faire     faire     faire     faire     faire     faire	
	Value (CMP) Value (CMP) Value (CMP) Value (CMP) State	Required     fairs     fairs     fairs     fairs     fairs     fairs     fairs     fairs	

For XMeta on Oracle and SQL Server, 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.

		IBM
Up	date WebSphere Application Server configuration (6 of	f 6)
	JDBC providers	
	<ul> <li>Messages</li> <li>Changes have been made to your local configuration. Clice Save to apply changes to the master configuration.</li> <li>The server may need to be restarted for these changes to take effect.</li> </ul>	
	JDBC providers	
	JDBC providers 7 =	
	<u>JDBC providers</u> > <u>ASB JDBC Provider</u> > <u>Data sources</u> > <u>JReport JDBC DataSource</u> > <u>Save</u> Save your workspace changes to the master configuration	
	Click Save to update the master repository with your changes. Click Discard to discard your changes and begin work again using the master repository configuration. Click Cancel to continue working with your changes.	
	Total changed documents: 1	
	Save Discard Cancel	
17	Relocating the XMeta repository for information Server version 8.0.1 and 8.1	© 2011 IBM Corporation

In the Messages box at the top of the page, click Save to save to the master configuration. Next, click the Save button in the next page.

	IBM
Test connection	
<ul> <li>Test connection</li> </ul>	
JDBC providers 7 -	
JUBC providers > ASE JDBC Provider > Data sources > ASE JDBC DataSource A data source is used by the application to access data from the database. A data source is created under a JDBC provider, which supplies the specific JDBC driver implementation class.	
Configuration	
Test connection	
Consul Descention	
JDBC providers	
JDBC providers	
Messages II Test connection for data source ASB JDBC DataSource on server server1 at node vegasNode01 was successful.	
<ul> <li>Stop and restart WebSphere</li> </ul>	
18 Relocating the XMeta repository for Information Server version 8.0.1 and 8.1	© 2011 IBM Corporation

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.

Trademarks, disclaimer, and copyright information
IBM, the IBM logo, ibm.com, DB2, and WebSphere are trademarks or registered trademarks of International Business Machines Corp., registered in many jurisdictions worldwide. Other product and service names might be trademarks of IBM or other companies. A current list of other IBM trademarks is available on the web at " <u>Copyright and trademark information</u> " at http://www.ibm.com/legal/copytrade.shtml
THE INFORMATION CONTAINED IN THIS PRESENTATION IS PROVIDED FOR INFORMATIONAL PURPOSES ONLY. in the United States, other countries, or both.
Linux is a registered trademark of Linus Torvalds in the United States, other countries, or both.
THE INFORMATION CONTAINED IN THIS PRESENTATION IS PROVIDED FOR INFORMATIONAL PURPOSES ONLY. WHILE EFFORTS WERE MADE TO VERIFY THE COMPLETENESS AND ACCURACY OF THE INFORMATION CONTAINED IN THIS PRESENTATION, IT IS PROVIDED "AS IS" WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED. IN ADDITION, THIS INFORMATION IS BASED ON IBM'S CURRENT PRODUCT PLANS AND STRATEGY, WHICH ARE SUBJECT TO CHANGE BY IBM WITHOUT NOTICE. IBM SHALL NOT BE RESPONSIBLE FOR ANY DAMAGES ARISING OUT OF THE USE OF, OR OTHERWISE RELATED TO, HIS PRESENTATION OR ANY OTHER DOCUMENTATION. NOTHING CONTAINED IN THIS PRESENTATION IS INTENDED TO, NOR SHALL HAVE THE EFFECT OF, CREATING ANY WARRANTIES OR REPRESENTATIONS FROM IBM (OR ITS SUPPLIERS OR LICENSORS), OR ALTERING THE TERMS AND CONDITIONS OF ANY AGREEMENT OR LICENSE GOVERNING THE USE OF IBM PRODUCTS OR SOFTWARE.
© Copyright International Business Machines Corporation 2011. All rights reserved.

© 2011 IBM Corporation

19