Migrating to a Supported Operating System During an Upgrade
Abstract

When you upgrade an Informatica domain, you can migrate one or more installations to a different machine. You might need to migrate an installation if the operating system on the current machine is no longer supported. This article explains how to migrate an installation to a machine with a supported operating system, and how to upgrade the migrated node.

Supported Versions

- Data Services 9.6.1
- Data Quality 9.6.1
- PowerCenter 9.6.1

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Overview

If the Informatica services are installed on a machine with an operating system that is no longer supported, you must migrate the installation to a machine with a supported operating system before you upgrade the node.

For example, effective in version 9.6.0, Informatica dropped support for the installation of Informatica services on 32-bit Linux. If you have the Informatica services version 9.5.1 installed on 32-bit Linux, you cannot upgrade the Informatica installation to version 9.6.1 because Informatica does not provide an installer for 32-bit Linux. You must migrate the installation to a machine with a supported operating system before upgrading the node to version 9.6.1.
For more information about product requirements and supported platforms, see the Product Availability Matrix on Informatica Network:

To migrate to a supported operating system during the upgrade, you must perform additional upgrade tasks. There are additional tasks before you upgrade the node, and before you upgrade the application services. When you run the upgrade wizard to upgrade the node, choose to change the node configuration so that you can update the configuration of the node on the new machine.

If you have multiple nodes on unsupported operating systems, you must follow the same steps to upgrade each node to a supported operating system.

**Prerequisites**

This document assumes that you are familiar with the following documentation and concepts:

- The *Informatica Installation and Configuration Guide*
- The Informatica upgrade guides
- The process of upgrading Informatica nodes

**Upgrade Process**

To migrate the node to a machine with a supported operating system and then upgrade the node, perform the following tasks:

1. Complete the pre-upgrade tasks required for the domain as documented in the Informatica upgrade guides.
2. Prepare to change the node configuration.
   - When you migrate an installation to another machine, you must set up the new machine to meet the requirements to install the Informatica services.
3. Upgrade the migrated node with changes to the node configuration.
   - When you choose to upgrade with changes to the node configuration, you can change the host name and port numbers for the new machine.
4. Complete changing the node configuration.
   - When you migrate an installation to another machine, you must set up the new machine to meet the requirements to run the Informatica services.
5. Complete the remaining upgrade tasks as documented in the Informatica upgrade guides.

**Complete the Pre-upgrade Tasks for the Domain**

Before you upgrade the domain, you must prepare for the upgrade. Complete the pre-upgrade tasks on the machine where you want the new version of Informatica to run.

For more information, see the Informatica upgrade guides.

**Prepare to Change the Node Configuration**

Before you upgrade with changes to the node configuration, you must prepare to change the configuration.

When you migrate an installation to another machine, you must set up the new machine to meet the requirements to install the Informatica services. If the machine where you upgrade the Informatica services is not configured correctly, the upgrade can fail.
Perform the following tasks on the machine where you want the new Informatica version to run:

1. Copy the installation directory.
2. Verify port requirements.
3. Create a system user account.
4. If you plan to run the Data Integration Service, PowerCenter Repository Service, or PowerCenter Integration Service on the new machine, configure native connectivity on the new machine so that these services can connect to databases.

**Copy the Installation Directory**

Copy the directory of the previous version of Informatica to the machine where you want the new version of Informatica to run.

For example, if the previous version of Informatica is installed in `C:\Informatica\9.6.0`, copy the `C:\Informatica\9.6.0` directory and subdirectories to the other machine.

The upgrade wizard uses files from the Informatica installation directory during the node upgrade. When you run the upgrade wizard, specify the Informatica installation directory on the new machine as the one that you want to upgrade.

**Verify Port Requirements**

The installer sets up the ports for components in the Informatica domain, and it designates a range of dynamic ports to use for some application services.

You can specify the port numbers to use for the components and a range of dynamic port numbers to use for the application services. Or you can use the default port numbers provided by the installer. Verify that the port numbers are available on the machines where you install the Informatica services.

The following table describes the ports used by Informatica:

<table>
<thead>
<tr>
<th>Port Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Node port</td>
<td>Port number for the node created during installation. Default is 6005.</td>
</tr>
<tr>
<td>Service Manager port</td>
<td>Port number used by the Service Manager on the node. The Service Manager listens for incoming connection requests on this port. Client applications use this port to communicate with the services in the domain. This is the port that the Informatica command line programs use to communicate to the domain. This is also the port for the SQL data service JDBC/ODBC driver. Default is 6006.</td>
</tr>
<tr>
<td>Service Manager shutdown port</td>
<td>Port number that controls server shutdown for the domain Service Manager. The Service Manager listens for shutdown commands on this port. Default is 6007.</td>
</tr>
<tr>
<td>Informatica Administrator port</td>
<td>Port number used by Informatica Administrator. Default is 6008.</td>
</tr>
<tr>
<td>Informatica Administrator shutdown port</td>
<td>Port number that controls server shutdown for Informatica Administrator. Informatica Administrator listens for shutdown commands on this port. Default is 6009.</td>
</tr>
<tr>
<td>Port Type</td>
<td>Description</td>
</tr>
<tr>
<td>-----------------------------------------------</td>
<td>-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>Range of dynamic ports for application services</td>
<td>Range of port numbers that can be dynamically assigned to application service processes as they start up. When you start an application service that uses a dynamic port, the Service Manager dynamically assigns the first available port in this range to the service process. At a minimum, the number of ports in the range must be at least twice the number of application service processes that will run on the node. Default is 6013 to 6113. The Service Manager dynamically assigns port numbers from this range to the following application services:  - Model Repository Service  - PowerCenter Integration Service  - PowerCenter Repository Service</td>
</tr>
<tr>
<td>Static ports for application services</td>
<td>Static ports are ports that are assigned dedicated port numbers that do not change. When you create the application service, you can accept the default port number, or you can manually assign the port number. The following services use static port numbers:  - Analyst Service. Default is 8085 for HTTP.  - Content Management Service. Default is 8105 for HTTP.  - Data Integration Service. Default is 8095 for HTTP.  - Metadata Manager Service. Default is 10250 for HTTP.  - Reporting and Dashboards Service. Default is 10370 for HTTP.  - Reporting Service. Default is 16080 for HTTP.  - Search Service. Default is 8084 for HTTP.  - Web Services Hub. Default is 7333 for HTTP.</td>
</tr>
</tbody>
</table>

**Create a System User Account on Windows**

Create a system user account to perform the installation and to run the Informatica service. Verify that the user account that you use to install the Informatica services has write permission on the installation directory. You can install Informatica with the user account logged in to the machine and run it under another user account. You can create a local account or a domain account to install Informatica or run the Informatica Windows service.

**Note:** To access a repository on Microsoft SQL Server that uses a Windows trusted connection, create a domain account.

The user accounts require the following permissions to run the installer or to run the Informatica Windows service:

- **Logged in user account.** The user account must be a member of the Administrators group and have the Log on as a service permission. Log in with this user account before you install Informatica.

- **Another user account.** The user account must be a member of the Administrators group and have Log on as a service and Act as operating system permissions. You do not have to log in with this user account before you install Informatica. During installation, you can specify the user account to run the Informatica Windows service.

**Create a System User Account on UNIX**

Create a user account specifically to run the Informatica daemon.

Verify that the user account you use to install Informatica has write permission on the installation directory.
Configure Native Connectivity on Service Machines

To establish native connectivity between an application service and a database, install the database client software for the database that you want to access.

Native drivers are packaged with the database server and client software. Configure connectivity on the machines where the application services and the service processes run. To ensure compatibility between the application service and the database, install a client software that is compatible with the database version and use the appropriate database client libraries.

The following services use native connectivity to connect to different databases:

Data Integration Service

The Data Integration Service uses native database drivers to connect to the following databases:

- Source and target databases. Reads data from source databases and writes data to target databases.
- Data object cache database. Stores the data object cache.
- Profiling source databases. Reads from relational source databases to run profiles against the sources.
- Profiling warehouse. Writes the profiling results to the profiling warehouse.
- Reference tables. Runs mappings to transfer data between the reference tables and the external data sources.

Install and configure the native database client software associated with the relational data sources and the repository databases on the machines where the Data Integration Service runs.

PowerCenter Repository Service

The PowerCenter Repository Service uses native database drivers to connect to the PowerCenter repository database.

Install database client software and configure connectivity on the machines where the PowerCenter Repository Service and the PowerCenter Repository Service processes run.

PowerCenter Integration Service

The PowerCenter Integration Service uses native database drivers to connect to the following databases:

- Source and target databases. Reads from the source databases and writes to the target databases.
- Metadata Manager source databases. Loads the relational data sources in Metadata Manager.

Install database client software associated with the relational data sources and the repository databases on the machines where the PowerCenter Integration Service runs.

Install Database Client Software

You must install the database clients on the machine where the service runs based on the types of databases that the application services access.

To ensure compatibility between the application service and the database, use the appropriate database client libraries and install a client software that is compatible with the database version.

Install the following database client software based on the type of database that the application service accesses:

IBM DB2 Client Application Enabler (CAE)

Configure connectivity on the machine where the Data Integration Service, PowerCenter Integration Service, or Repository Service process runs by logging in to the machine as a user who can start a service process.
Microsoft SQL Server 2012 Native Client

Download the client from the following Microsoft website:

Oracle client

Install compatible versions of the Oracle client and Oracle database server. You must also install the same version of the Oracle client on all machines that require it. To verify compatibility, contact Oracle.

Sybase Open Client (OCS)

Install an Open Client version that is compatible with the Sybase ASE database server. You must also install the same version of Open Client on the machines hosting the Sybase ASE database and Informatica. To verify compatibility, contact Sybase.

Configure Database Client Environment Variables on UNIX

Configure database client environment variables on the machines that run the Data Integration Service, PowerCenter Integration Service, and PowerCenter Repository Service processes.

The database client path variable name and requirements depend on the UNIX platform and the database.

After you configure the database environment variables, you can test the connection to the database from the database client.

The following table lists the database environment variables you need to set in UNIX:

<table>
<thead>
<tr>
<th>Database</th>
<th>Environment Variable Name</th>
<th>Database Utility</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oracle</td>
<td>ORACLE_HOME PATH</td>
<td>sqlplus</td>
<td>Set to: &lt;DatabasePath&gt; Add: &lt;DatabasePath&gt;/bin</td>
</tr>
<tr>
<td>IBM DB2</td>
<td>DB2DIR DB2INSTANCE PATH</td>
<td>db2connect</td>
<td>Set to: &lt;DatabasePath&gt; Set to: &lt;DB2InstanceName&gt; Add: &lt;DatabasePath&gt;/bin</td>
</tr>
<tr>
<td>Sybase ASE</td>
<td>SYBASE15 SYBASE_ASE SYBASE_OCS PATH</td>
<td>isql</td>
<td>Set to: &lt;DatabasePath&gt;/sybase&lt;version&gt; Set to: ${SYBASE15}/ASE-&lt;version&gt; Set to: ${SYBASE15}/OCS-&lt;version&gt; Add: ${SYBASE_ASE}/bin:${SYBASE_OCS}/bin:$PATH</td>
</tr>
</tbody>
</table>

Upgrade the Migrated Node with Changes to the Node Configuration

When you run the upgrade wizard to upgrade the migrated node, specify the Informatica installation directory on the new machine as the one that you want to upgrade. Then, choose to change the node configuration.

When you select the Allow changes to the node host name and port numbers option, you can update the configuration of the node on the new machine. The host name of the new machine differs from the host name of the old machine. The available port numbers on the new machine might differ from the available port numbers on the old machine. If the node does not use the correct host name, or if the node has port conflicts with other applications on the machine, the node does not start.
The following image shows the upgrade option to change the node configuration:

You can upgrade with changes to the node configuration when you upgrade in graphical, console, or silent mode.

When you upgrade with changes to the node configuration, the upgrade wizard displays additional pages so that you can configure the following information on the new machine:

- Database connection information
- Node host name and port number
- Service Manager and Administrator tool port numbers

For detailed instructions on upgrading with changes to the node configuration, see the Informatica upgrade guides.

**Change the Database Connection Information**

When you upgrade a gateway node with changes to the node configuration, the upgrade wizard displays the **Domain Configuration Repository Upgrade** page. Configure the database connection information for the gateway node. All gateway nodes must have a database connection to the domain configuration repository to retrieve and update domain configuration.

When you upgrade a worker node with changes to the node configuration, the upgrade wizard does not display the domain configuration repository information. You cannot modify the database connection information.
The following image shows the **Domain Configuration Repository Upgrade** page:

The following table describes the properties that you specify for the database and user account:

<table>
<thead>
<tr>
<th>Property</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Database type</td>
<td>Database for the domain configuration repository. Select Oracle, IBM DB2, Microsoft SQL Server, or Sybase ASE.</td>
</tr>
<tr>
<td>Database user ID</td>
<td>Database user account for the domain configuration repository.</td>
</tr>
<tr>
<td>User password</td>
<td>Password for the database user account.</td>
</tr>
<tr>
<td>Tablespace</td>
<td>Available for IBM DB2. Name of the tablespace in which to create the tables. Specify a tablespace that meets the pageSize requirement of 32768 bytes. In a single partition database, if this option is not selected, the installer creates the tables in the default tablespace. In a multipartition database, select this option and specify the name of the tablespace that resides in the catalog partition of the database.</td>
</tr>
<tr>
<td>Schema name</td>
<td>Available for Microsoft SQL Server. Name of the schema that will contain domain configuration tables. If not selected, the installer creates the tables in the default schema.</td>
</tr>
<tr>
<td>Trusted connection</td>
<td>Available for Microsoft SQL Server. Indicates whether to connect to Microsoft SQL Server through a trusted connection. Trusted authentication uses the security credentials of the current user to make the connection to Microsoft SQL Server. If not selected, the installer uses Microsoft SQL Server authentication.</td>
</tr>
</tbody>
</table>
Verify that the **Secure database** option is not selected. If you are upgrading from version 9.1.0, 9.5.0, or 9.5.1, you cannot create the domain configuration repository in a database secured with the SSL protocol because the secure database option is not supported in the previous version. After you upgrade, you can configure a secure domain configuration repository database. If you are upgrading from version 9.6.0 and you want to migrate the domain configuration repository to a database secured with the SSL protocol, you must complete additional steps to prepare for the migration. For more information, see the following Informatica How-To Library article: [Migrating the Domain Configuration Repository During an Upgrade](#).

Use one of the following methods to enter the JDBC connection information:

- To enter the connection information using the JDBC URL information, select **JDBC URL** and specify the JDBC URL properties. The following table describes the JDBC URL properties that you must specify:

<table>
<thead>
<tr>
<th>Property</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Database address</td>
<td>Host name and port number for the database in the format <code>host_name:port</code>.</td>
</tr>
<tr>
<td>Database service name</td>
<td>Service name for Oracle and IBM DB2 databases or database name for Microsoft SQL Server and Sybase ASE.</td>
</tr>
<tr>
<td>JDBC parameters</td>
<td>Optional parameters to include in the database connection string. Use the parameters to optimize database operations for the configuration database. The upgrade wizard displays the parameters you provided when you installed the previous version. You can modify the JDBC parameter string. Verify that the parameter string is valid. The upgrade wizard does not validate the parameter string before it adds the string to the JDBC URL. If not selected, the upgrade wizard creates the JDBC URL string without additional parameters.</td>
</tr>
</tbody>
</table>

- To enter the connection information using a custom JDBC connection string, select **Custom JDBC connection string** and type the connection string.

  Use the following syntax for the JDBC connection string for the databases:

  **IBM DB2**
  
  ```
  jdbc:Informatica:db2://host_name:port_no;DatabaseName=
  ```

  **Oracle**
  
  ```
  jdbc:Informatica:oracle://host_name:port_no;ServiceName=
  ```

  **Microsoft SQL Server**
  
  ```
  jdbc:Informatica:sqlserver://host_name:port_no;SelectMethod=cursor;DatabaseName=
  ```

  **Sybase**
  
  ```
  jdbc:Informatica:sybase://host_name:port_no;DatabaseName=
  ```

  Verify that the connection string contains all the connection parameters required by your database system.
Change the Node Host Name and Port Number

When you upgrade a gateway or worker node with changes to the node configuration, the upgrade wizard displays the Domain and Node Configuration page. Modify the node host name and port number to match the configuration of the new version of Informatica.

The following image shows the Domain and Node Configuration page:

The following table describes the domain and node properties that you can specify:

<table>
<thead>
<tr>
<th>Property</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Domain name</td>
<td>Name of the domain. The default domain name is Domain_&lt;MachineName&gt;. The name must not exceed 128 characters and must be 7-bit ASCII only. It cannot contain a space or any of the following characters: ` % * + ; &quot; ? , &lt; &gt; /</td>
</tr>
<tr>
<td>Node name</td>
<td>Name of the node that you are upgrading.</td>
</tr>
<tr>
<td>Node host name</td>
<td>Host name of the machine that hosts the node for the new version of Informatica. If the machine has a single network name, use the default host name. If the machine has multiple network names, you can modify the default host name to use an alternate network name. Optionally, you can use the IP address. Note: Do not use localhost. The host name must explicitly identify the machine.</td>
</tr>
<tr>
<td>Node port number</td>
<td>Port number for the node you are upgrading. The default port number for the node is 6005.</td>
</tr>
<tr>
<td>Property</td>
<td>Description</td>
</tr>
<tr>
<td>---------------------------</td>
<td>-----------------------------------------------------------------------------</td>
</tr>
<tr>
<td>Gateway node host name</td>
<td>Host name of the machine that hosts the gateway node for the domain.</td>
</tr>
<tr>
<td></td>
<td>Available if you upgrade a worker node.</td>
</tr>
<tr>
<td>Gateway node port number</td>
<td>Port number of the gateway node.</td>
</tr>
<tr>
<td></td>
<td>Available if you upgrade a worker node.</td>
</tr>
</tbody>
</table>

If you are securing the Informatica Administrator with a custom keystore file, specify the custom keystore file password and location.

The following table describes the properties for the Informatica Administrator custom keystore:

<table>
<thead>
<tr>
<th>Property</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Custom Keystore Password</td>
<td>Plain text password for the custom keystore file.</td>
</tr>
</tbody>
</table>
| Custom Keystore File   | Path and file name of the custom keystore file. If you leave this field blank, the installer looks for the keystore file in the following directory:  
                         | &lt;Informatica installation directory&gt;\tomcat\conf\                                            |

**Change the Service Manager and Administrator Tool Port Numbers**

When you upgrade a gateway or worker node with changes to the node configuration, the upgrade wizard displays the **Port Configuration Upgrade** page. You can specify new port numbers or use the default port numbers.

The following image shows the **Port Configuration Upgrade** page:
The following table describes the port numbers that you can modify:

<table>
<thead>
<tr>
<th>Port</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Service Manager port</td>
<td>Port number used by the Service Manager in the node. Client applications and the Informatica command line programs use this port to communicate to the services in the domain.</td>
</tr>
<tr>
<td>Service Manager shutdown port</td>
<td>Port number that controls server shutdown for the domain Service Manager. The Service Manager listens for shutdown commands on this port.</td>
</tr>
<tr>
<td>Informatica Administrator port</td>
<td>Port number used by the Administrator tool. Available if you upgrade a gateway node.</td>
</tr>
<tr>
<td>Informatica Administrator shutdown port</td>
<td>Port number used by the Administrator tool to listen for shut down commands. Available if you upgrade a gateway node.</td>
</tr>
</tbody>
</table>

**Complete Changing the Node Configuration**

After you upgrade the migrated node, you must perform additional tasks before you upgrade the application services.

When you migrate an installation to another machine, you must set up the new machine to meet the requirements to run the Informatica services. If the machine where you upgrade the Informatica services is not configured correctly, the services can fail to start.

Perform the following tasks on the machine where you want the new Informatica version to run:

1. Configure the environment variables.
2. Verify the range of port numbers that can be dynamically assigned to application service processes that run on the node.
3. Verify the location of the node backup directory.

**Configure Environment Variables**

Informatica uses environment variables to store configuration information when it runs the application services and connects to the clients. Configure the environment variables to meet the Informatica requirements. Incorrectly configured environment variables can cause the Informatica domain or nodes to fail to start or can cause connection problems between the Informatica clients and the domain.

To configure environment variables on UNIX, log in with the system user account you used to install Informatica.

**Configure Library Path Environment Variables on UNIX**

Configure library path environment variables on the machines that run the Data Integration Service, PowerCenter Integration Service, and PowerCenter Repository Service processes. The variable name and requirements depend on the platform and database.

**Solaris and Linux**

Configure the LD_LIBRARY_PATH environment variable.
The following table describes the values that you set for the LD_LIBRARY_PATH for the different databases:

<table>
<thead>
<tr>
<th>Database</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oracle</td>
<td><code>&lt;DatabasePath&gt;/lib</code></td>
</tr>
<tr>
<td>IBM DB2</td>
<td><code>&lt;DatabasePath&gt;/lib</code></td>
</tr>
<tr>
<td>Sybase ASE</td>
<td><code>&quot;${SYBASE_OCS}/lib:${SYBASE_ASE}/lib:${LD_LIBRARY_PATH}&quot;</code></td>
</tr>
<tr>
<td>Informix</td>
<td><code>&lt;DatabasePath&gt;/lib</code></td>
</tr>
<tr>
<td>Teradata</td>
<td><code>&lt;DatabasePath&gt;/lib</code></td>
</tr>
<tr>
<td>ODBC</td>
<td><code>&lt;CLOSEDODBCHOME&gt;/lib</code></td>
</tr>
</tbody>
</table>

AIX

Configure the LIBPATH environment variable for the following Java-based components and databases:

**Java component variables**

The PowerCenter Integration Service requires the Java Runtime Environment libraries to process the following Java-based components:

- Custom transformations that use Java
- Java transformations

Configure the library path environment variable to point to the installed Java directory on machines where the PowerCenter Integration Service process runs. Configure the LIBPATH environment variable with the following values:

- `JAVA_HOME/java/jre/bin`
- `JAVA_HOME/java/jre/bin/classic`
- `JAVA_HOME/usr/lib:/lib`

**Databases**

The following table describes the values that you set for the LIBPATH environment variable for the different databases:

<table>
<thead>
<tr>
<th>Database</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oracle</td>
<td><code>&lt;DatabasePath&gt;/lib</code></td>
</tr>
<tr>
<td>IBM DB2</td>
<td><code>&lt;DatabasePath&gt;/lib</code></td>
</tr>
<tr>
<td>Sybase ASE</td>
<td><code>&quot;${SYBASE_OCS}/lib:${SYBASE_ASE}/lib:${LIBPATH}&quot;</code></td>
</tr>
<tr>
<td>Informix</td>
<td><code>&lt;DatabasePath&gt;/lib</code></td>
</tr>
</tbody>
</table>
HP-UX

Configure the SHLIB_PATH environment variable for the following Java-based components and databases:

### Java component variables

The PowerCenter Integration Service requires the Java Runtime Environment libraries to process the following Java-based components:

- Custom transformations that use Java
- Java transformations

Configure the library path environment variable to point to the installed Java directory on machines where the PowerCenter Integration Service process runs. Configure the SHLIB_PATH environment variable with the following values:

- `JAVA_HOME/java/jre/lib/IA64W/jli`
- `JAVA_HOME/java/jre/lib/IA64W`

### Databases

The following table describes the values that you set for the SHLIB_PATH environment variable for the different databases:

<table>
<thead>
<tr>
<th>Database</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Teradata</td>
<td><code>&lt;DatabasePath&gt;/lib</code></td>
</tr>
<tr>
<td>ODBC</td>
<td><code>&lt;CLOSEDODBCHOME&gt;/lib</code></td>
</tr>
<tr>
<td>Oracle</td>
<td><code>&lt;DatabasePath&gt;/lib</code></td>
</tr>
<tr>
<td>IBM DB2</td>
<td><code>&lt;DatabasePath&gt;/lib</code></td>
</tr>
<tr>
<td>Sybase ASE</td>
<td><code>&quot;${SYBASE_OCS}/lib:${SYBASE_ASE}/lib:${SHLIB_PATH}&quot;</code></td>
</tr>
<tr>
<td>Informix</td>
<td><code>&lt;DatabasePath&gt;/lib</code></td>
</tr>
<tr>
<td>Teradata</td>
<td><code>&lt;DatabasePath&gt;/lib</code></td>
</tr>
<tr>
<td>ODBC</td>
<td><code>&lt;CLOSEDODBCHOME&gt;/lib</code></td>
</tr>
</tbody>
</table>

**Verify the Range of Dynamic Port Numbers**

When you upgrade a migrated node, the upgrade wizard assigns a default range of port numbers that can be dynamically assigned to application service processes that run on the node.

The default range of dynamic port numbers is 6013 to 6113. Verify that the default range of port numbers are available on the machine that runs the new version of Informatica. If the range of port numbers are not available, use the Administrator tool to update the range. Configure the minimum and maximum dynamic port numbers for service processes in the Advanced Properties section of the node Properties view.
**Verify the Node Backup Directory**

Verify that the backup directory for the node is accessible by the machine that runs the new version of Informatica. In the Administrator tool, view the Backup Directory property in the Advanced Properties section of the node Properties view.

**Configure PowerExchange Adapters**

If your previous installation included PowerExchange adapters, configure the PowerExchange adapters on the machine that runs the new version of Informatica. If the PowerExchange adapter has an installer, re-install the PowerExchange adapter.

**Complete the Remaining Upgrade Tasks**

After you upgrade the node with changes to the node configuration, you must complete the remaining upgrade tasks. Complete the same tasks required for all domain upgrades.

To complete the upgrade, perform the following tasks:

1. Complete the pre-upgrade tasks for the application services.
2. Upgrade the application services.
3. Upgrade the Informatica client tools.
4. Complete the post-upgrade tasks.

For more information about the required tasks to complete for all domain upgrades, see the Informatica upgrade guides.

**Author**

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