

Ignite and Informatica Integration

The Informatica is able to connect to Ignite via ODBC Connection.

Connect from Informatica PowerCenter Designer

It's required to install the 32-bit Ignite ODBC driver to connect to Ignite via odbc driver in the Power Center Designer.

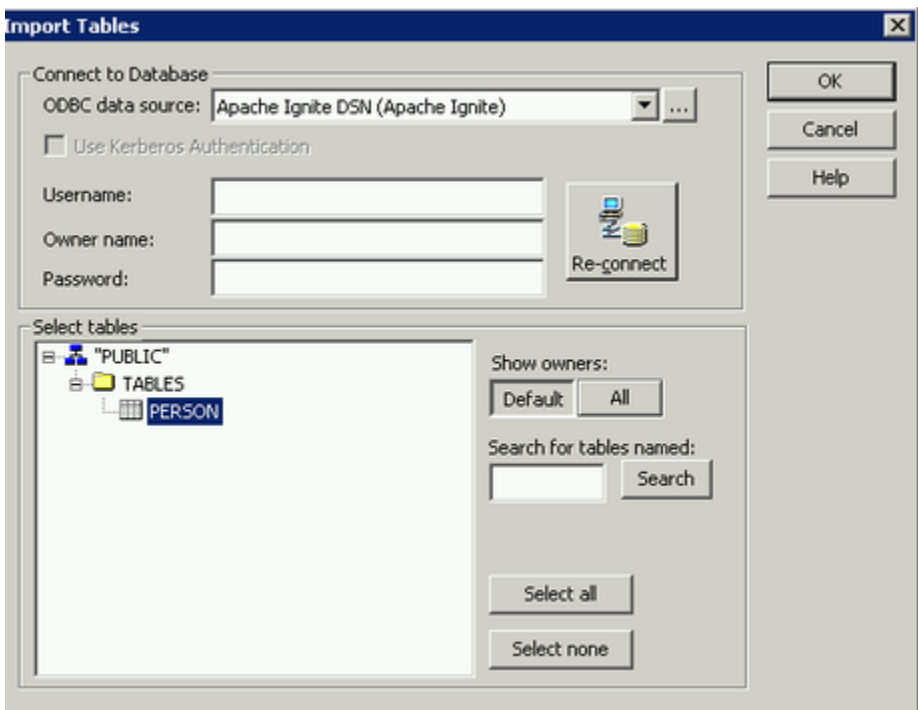
Please use following links to install the odbc driver and create a DSN

[Installing on Windows](#)

[Configure DSN](#)

To import tables from Ignite select menu **Sources** or **Targets** and choose "**Import from Database...**"

Connect to the cluster by Ignite DSN.



Installing Ignite ODBC on an Informatica service node

Please refer to the following documentation [Building on Linux](#) and [Installing on Linux](#) to install ignite ODBC on an ignite service node.

Informatica uses configuration files located by environment variables \$ODBCINI and \$ODBCISTINI([Configure the UNIX environment for ODBC](#)).

Please configure ignite odbc driver and create new DSN as shown below:

odbc.ini

```
[ApacheIgnite]
Driver      = /usr/local/lib/libignite-odbc.so
Description = Apache Ignite ODBC
Address     = 192.168.0.105
User       = ignite
Password   = ignite
Schema     = PUBLIC
```

odbcinst.ini

```
[ApacheIgnite]
Driver  = /usr/local/lib/libignite-odbc.so
```

Check ODBC connection use **ssgodbc.linux64** utility included in the Informatica deployment.

Check connection

```
<INFORMATICA_HOME>/tools/debugtools/ssgodbc/linux64/ssgodbc.linux64 -d
ApacheIgnite -u ignite -p ignite -v
```

If the unixodbc or ignite odbc libraries are not installed in the default directory **/usr/local/lib**, add them to LD_LIBRARY_PATH:

Check connection

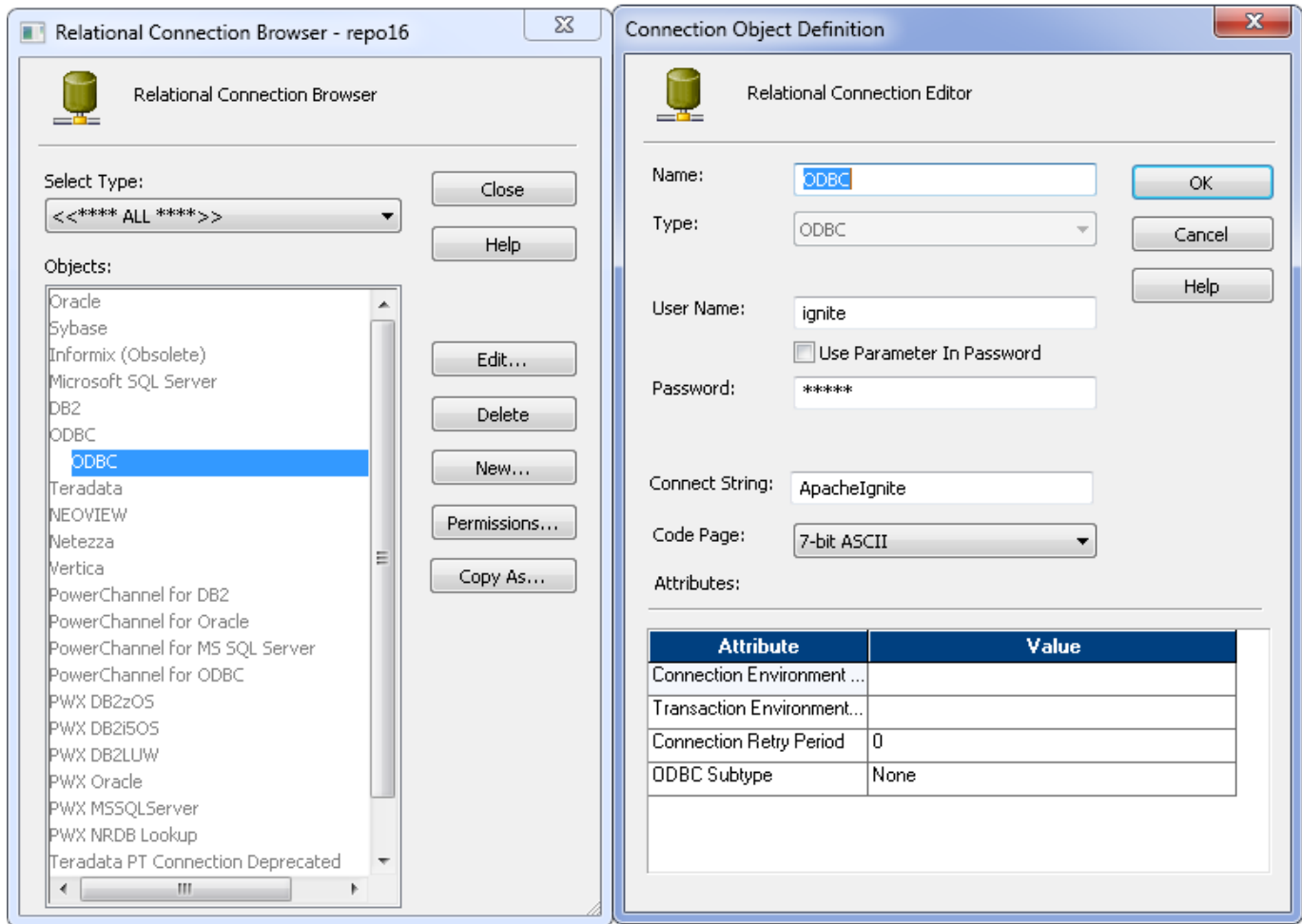
```
UNIXODBC_LIB=/opt/unixodbc/lib/
IGNITE_ODBC_LIB=/opt/igniteodbc/lib
LD_LIBRARY_PATH=<UNIXODBC_LIB>:<IGNITE_ODBC_LIB>

<INFORMATICA_HOME>/tools/debugtools/ssgodbc/linux64/ssgodbc.linux64 -d
ApacheIgnite -u ignite -p ignite -v
```

Configure Relation Connection in Informatica the Workflow Manager

Choose to Connections > "Relational..." to show the Relational Connection Browser.

Select ODBC type and create new connection.



Installing Ignite ODBC on Suse 11.4

Below steps to build Ignite and Ignite ODBC driver on the Suse 11.4:

1. Installing required packages.

1.1 Adding repositories

We have used following repositories:

```
vagrant@sles11sp4:~> sudo zypper lr -u
```

```
# | Alias | Name | Enabled | Refresh | URI
```

```
---+-----+-----+-----+-----+-----+
-
1 | devel_gcc | devel_gcc | Yes | No |
```

```
http://download.opensuse.org/repositories/devel:/gcc/SLE-11/
```

```
2 | non-oss          | non-oss          | Yes      | No        |  
http://download.opensuse.org/distribution/11.4/repo/non-oss/
```

```
3 | openSUSE_Factory | openSUSE_Factory | Yes      | No        |  
https://download.opensuse.org/repositories/devel:/tools:/building/openSU  
SE_Factory/
```

```
4 | oss              | oss              | Yes      | No        |  
http://download.opensuse.org/distribution/11.4/repo/oss/
```

Below commands to add these repositories:

```
sudo zypper ar http://download.opensuse.org/distribution/11.4/repo/oss/  
oss
```

```
sudo zypper ar
```

```
http://download.opensuse.org/distribution/11.4/repo/non-oss/ non-oss
```

```
sudo zypper ar
```

```
https://download.opensuse.org/repositories/devel:/tools:/building/openSU  
SE_Factory/ openSUSE_Factory
```

```
sudo zypper ar
```

```
http://download.opensuse.org/repositories/devel:/gcc/SLE-11/ devel_gcc
```

Please check that you are able and to use mentioned repositories.

1.2 Installing Automake and autoconf

```
sudo zypper install autoconf automake
```

1.3 Installing libtool:

```
sudo zypper install libtool-2.4.6-7.1.x86_64
```

```
-----  
Loading repository data...
```

```
Reading installed packages...
```

```
Resolving package dependencies...
```

```
Problem: nothing provides m4 >= 1.4.16 needed by  
libtool-2.4.6-7.1.x86_64
```

```
  Solution 1: do not install libtool-2.4.6-7.1.x86_64
```

```
  Solution 2: break libtool-2.4.6-7.1.x86_64 by ignoring some of its  
dependencies
```

```
Choose from above solutions by number or cancel [1/2/c] (c): 2
```

1.4 OpenSSL:

```
vagrant@sles11sp4:~> sudo zypper install openssl openssl-devel
```

```
-----  
Loading repository data...
```

```
Reading installed packages...
```

```
'openssl-devel' not found in package names. Trying capabilities.  
Resolving package dependencies...
```

```
Problem: libopenssl-devel-1.0.0c-17.1.x86_64 requires zlib-devel, but  
this requirement cannot be provided
```

```
uninstallable providers: zlib-devel-1.2.5-8.1.i586[oss]
```

```
zlib-devel-1.2.5-8.1.x86_64[oss]
```

```
Solution 1: downgrade of zlib-1.2.7-0.12.3.x86_64 to  
zlib-1.2.5-8.1.x86_64
```

```
Solution 2: do not ask to install a solvable providing openssl-devel
```

```
Solution 3: do not ask to install a solvable providing openssl-devel
```

```
Solution 4: break libopenssl-devel-1.0.0c-17.1.x86_64 by ignoring some  
of its dependencies
```

```
Choose from above solutions by number or cancel [1/2/3/4/c] (c): 1
```

```
-----  
  
1.5 GCC Compiler:
```

```
vagrant@sles11sp4:~> sudo zypper install gcc5 gcc5-c++
```

```
-----  
Loading repository data...
```

```
Reading installed packages...
```

```
Resolving package dependencies...
```

```
2 Problems:
```

```
Problem: gcc5-5.5.0+r253576-1.1.x86_64 requires libgcc_s1 >=  
5.5.0+r253576-1.1, but this requirement cannot be provided
```

```
Problem: gcc5-c++-5.5.0+r253576-1.1.x86_64 requires gcc5 =  
5.5.0+r253576-1.1, but this requirement cannot be provided
```

```
Problem: gcc5-5.5.0+r253576-1.1.x86_64 requires libgcc_s1 >=  
5.5.0+r253576-1.1, but this requirement cannot be provided
```

```
uninstallable providers: libgcc_s1-5.5.0+r253576-1.1.i586[devel_gcc]
```

```
libgcc_s1-5.5.0+r253576-1.1.x86_64[devel_gcc]
```

```
libgcc_s1-6.4.1+r251631-80.1.i586[devel_gcc]
```

```
libgcc_s1-6.4.1+r251631-80.1.x86_64[devel_gcc]
```

```
libgcc_s1-7.3.1+r258812-103.1.i586[devel_gcc]
```

```
libgcc_s1-7.3.1+r258812-103.1.x86_64[devel_gcc]
```

```
libgcc_s1-8.1.1+r260570-32.1.i586[devel_gcc]
```

```
libgcc_s1-8.1.1+r260570-32.1.x86_64[devel_gcc]
```

```
Solution 1: install libgcc_s1-8.1.1+r260570-32.1.x86_64 (with vendor  
change)
```

```
SUSE LINUX Products GmbH, Nuernberg, Germany -->
```

```
obs://build.opensuse.org/devel:gcc
```

```
Solution 2: do not install gcc5-5.5.0+r253576-1.1.x86_64
```

```
Solution 3: do not install gcc5-5.5.0+r253576-1.1.x86_64
```

```
Solution 4: break gcc5-5.5.0+r253576-1.1.x86_64 by ignoring some of its  
dependencies
```

Choose from above solutions by number or skip, retry or cancel
[1/2/3/4/s/r/c] (c): 1

Problem: gcc5-c++-5.5.0+r253576-1.1.x86_64 requires gcc5 =
5.5.0+r253576-1.1, but this requirement cannot be provided
uninstallable providers: gcc5-5.5.0+r253576-1.1.i586[devel_gcc]
gcc5-5.5.0+r253576-1.1.x86_64[devel_gcc]
Solution 1: install libgomp1-8.1.1+r260570-32.1.x86_64 (with vendor
change)

SUSE LINUX Products GmbH, Nuernberg, Germany -->
obs://build.opensuse.org/devel:gcc

Solution 2: do not install gcc5-c++-5.5.0+r253576-1.1.x86_64

Solution 3: do not install gcc5-c++-5.5.0+r253576-1.1.x86_64

Solution 4: break gcc5-c++-5.5.0+r253576-1.1.x86_64 by ignoring some of
its dependencies

Choose from above solutions by number or skip, retry or cancel
[1/2/3/4/s/r/c] (c): 1

Resolving dependencies...

Resolving package dependencies...

Problem: gcc5-c++-5.5.0+r253576-1.1.x86_64 requires
libstdc++6-devel-gcc5 = 5.5.0+r253576-1.1, but this requirement cannot
be provided

uninstallable providers:
libstdc++6-devel-gcc5-5.5.0+r253576-1.1.i586[devel_gcc]

libstdc++6-devel-gcc5-5.5.0+r253576-1.1.x86_64[devel_gcc]

Solution 1: install libstdc++6-8.1.1+r260570-32.1.x86_64 (with vendor
change)

SUSE LINUX Products GmbH, Nuernberg, Germany -->
obs://build.opensuse.org/devel:gcc

Solution 2: do not install gcc5-c++-5.5.0+r253576-1.1.x86_64

Solution 3: do not install gcc5-c++-5.5.0+r253576-1.1.x86_64

Solution 4: break gcc5-c++-5.5.0+r253576-1.1.x86_64 by ignoring some of
its dependencies

Choose from above solutions by number or cancel [1/2/3/4/c] (c): 1

Provide sym links to compiler executables:

```
sudo rm /usr/bin/gcc
sudo rm /usr/bin/g++
```

```
sudo ln -s /usr/bin/g++-5 /usr/bin/g++
sudo ln -s /usr/bin/gcc-5 /usr/bin/gcc
```

1.6 Installation unixODBC from sources.

Please download and install the latest unixODBC(2.3.6) library from

<http://www.unixodbc.org/>.

1.7 Check installed packages.

Please check that all required libraries and tools are installed with specified versions[1] .

2. Build Ignite and Ignite odbc driver.

2.1

Check that the environment variable JAVA_HOME is set.

```
cd $IGNITE_HOME/platforms/cpp
export LDFLAGS=-lrt
```

```
libtoolize && aclocal && autoheader && automake --add-missing &&
autoreconf
./configure --enable-odbc
make
sudo make install
```

After successful build please reboot the system.

2.2 Install ODBC driver

```
sudo odbcinst -i -d -f
$IGNITE_HOME/platforms/cpp/odbc/install/ignite-odbc-install.ini
```

[1] Installed packages and tools:

```
1. libtool --version
libtool (GNU libtool) 2.4.6
2. m4 --version
m4 (GNU M4) 1.4.12
3. autoconf --version
autoconf (GNU Autoconf) 2.69
4. automake --version
automake (GNU automake) 1.16.1
5. openssl version
OpenSSL 1.0.0c 2 Dec 2010
6. g++ --version
g++ (SUSE Linux) 5.5.0 20171010 [gcc-5-branch revision 253640]
7. JDK 1.8
```

