Summary: How to access DB2 from Oracle database

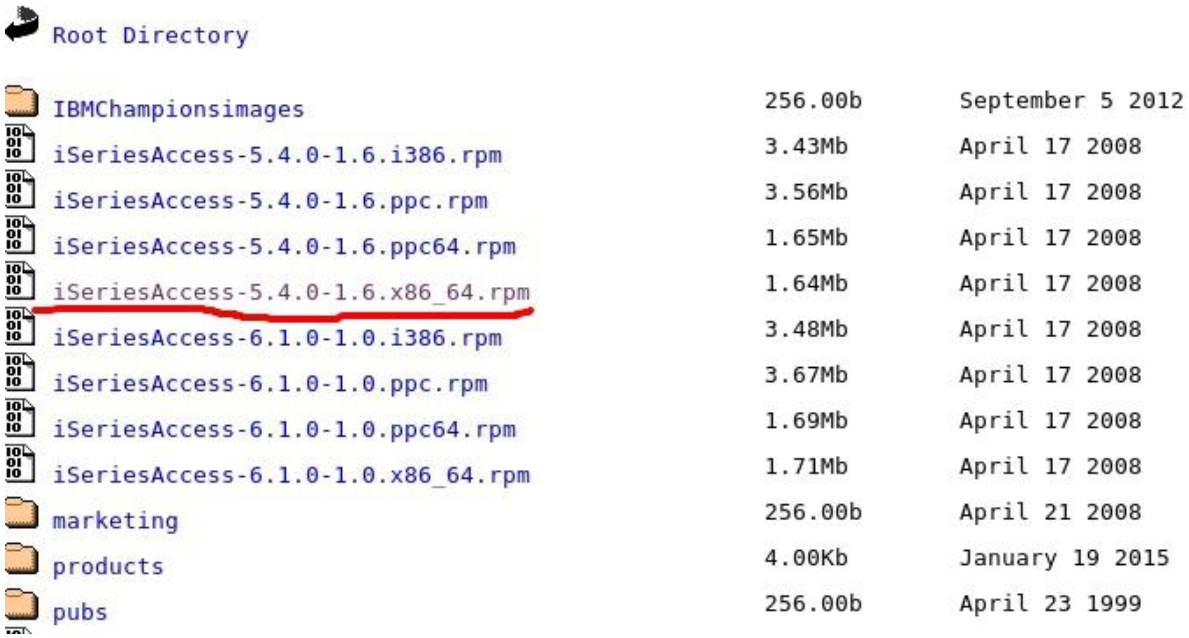
Prerequisites

unixODBC and unixODBC-devel

Download one of the following, depending on your required DB2 version and architecture

you can get this from the IBM website, or attachments file, or from here:

```
http://www.mmnt.net/db/0/0/public.dhe.ibm.com/as400
```



Then install IBM as400 client Access using something like this:

```
# sudo yum install alien libmotif3
# sudo alien -dckv iSeriesAccess-5.4.0-1.6.x86_64.rpm
# sudo dpkg -i iseriesaccess_5.4.0-1.6_amd64.deb
```

IBM i Access Client Solutions Linux Application Package

```
# sudo ln -s libodbcinst.so.2 /usr/lib64/libodbcinst.so.1
```

Additional: https://www.ibm.com/developerworks/ibmi/library/i-ibmi-access-client-solutions-linux/

Configure the PostgreSQL ODBC Driver in the Odbcinst.ini File (/etc/odbcinst.ini)

***This step to Cross because system auto generate**

Test Your ODBC Driver

```
# odbcinst -q -d
```

Configure Our ODBC Connections in /etc/odbc.ini

```
[ODBC Data Sources]
PG_LINK = PostgreSQL
DB2_LINK = iSeries Access ODBC Driver 64-bit

[PG_LINK]
…
[DB2_LINK]
Description = iSeries Access ODBC Driver
Driver = iSeries Access ODBC Driver 64-bit
System = 127.0.0.1 #TCP IP
UserID = homestead #uname
Password = secret #upass
Naming = 1
DefaultLibraries = homestead #DATABASE
Database = homestead #DATABASE
ConnectionType = 2
CommitMode = 2
ExtendedDynamic = 1
DefaultPkgLibrary = QGPL
DefaultPackage = A/DEFAULT(IBM),2,0,1,0,512
AllowDataCompression = 1
LibraryView = 0
AllowUnsupportedChar = 1
ForceTranslation = 1
```

*remark: [<your_ODBC_NAME>]

Connect to PostgreSQL with ODBC isql Command

```
# isql -v DB2_LINK
+---------------------------------------+
| Connected!                            |
```

Configure HS for Oracle database: create file initDB2_LINK.ora under $ORACLE_HOME/hs/admin directory

```
HS_FDS_CONNECT_INFO = PG_LINK
HS_FDS_CONNECT_INFO = DB2_LINK
HS_FDS_TRACE_LEVEL = 0
HS_FDS_SHAREABLE_NAME = /usr/lib64/libodbc.so
HS_LANGUAGE=AMERICAN_AMERICA.WE8ISO8859P1
set ODBCINI=/etc/odbc.ini
```

*remark: filename init<your_ODBC_NAME>.ora

HS_FDS_CONNECT_INFO = <your_ODBC_NAME>

Modify $ORACLE_HOME /network/admin/tnsnames.ora; add the following entry:

```
PG_LINK =
…
DB2_LINK =
  (DESCRIPTION =
    (ADDRESS = (PROTOCOL = TCP)(HOST = testbed.localdomain)(PORT = 1521))
    (CONNECT DATA =
      (SID = DB2_LINK)
    )
    (HS=OK)
  )
```

*remark: <your_ODBC_NAME> = …

HOST = <ORA_DB_HOSTNAME>

SID = <your_ODBC_NAME>

Modify $ORACLE_HOME /network/admin/listener.ora; add the following static entry in the SID_LIST:

```
SID_LIST_LISTENER =
  (SID_LIST=
      (SID_DESC=
         (SID_NAME=PG_LINK)
         (ORACLE_HOME=/u01/app/oracle/product/11.2/db_1)
         (PROGRAM=dg4odbc)
      )
      (SID_DESC=
         (SID_NAME=DB2_LINK)
         (ORACLE_HOME=/u01/app/oracle/product/11.2/db_1)
         (PROGRAM=dg4odbc)
      )
  )
```

*remark: SID_NAME = <your_ODBC_NAME>

SID_LIST_<your_LISTENER_NAME> = …

ORACLE_HOME = $ORACLE_HOME

Reload listener configuraction

```
lsnrctl reload LISTENER #<your_LISTENER_NAME>
```

Create database link: (PL SQL)

```
# create database link <your_LISTENER_NAME> connect to "<uname>" identified by
"<pname>" using 'DB2_LINK';
```

Thank guys. Gif your enjoy !

Thank for Ref:

http://www.uptimemadeeasy.com/linux/install-postgresql-odbc-driver-on-linux/

https://dbaspot.wordpress.com/2013/05/29/how-to-access-postgresql-from-oracle-database/

https://stackoverflow.com/questions/19184302/connecting-to-an-ibm-as-400-db2-database