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# AMGA\_oracle installation notes

## Prepare the Oracle ODBC drivers

Before installing the glite-AMGA\_oracle component you have to ensure that the unixODBC, Oracle instant client basic 10g, Oracle ODBC 10g drivers, and SQLplus have to be installed on the machine.

**NOTE:** If you are installing on a 64bit OS ensure that unixODBC and Oracle ODBC drivers and SQLplus are all the 32bit(i386) packages. If unixODBC.x86\_64 is installed uninstall it( `$ yum remove unixODBC;yum -y install unixODBC.i386`).

You also have to be sure that you installed the *compatibility mode* libraries and three additional libraries because amga.i386 cannot use 64bit libraries:

```
$ yum -y groupinstall "Compatibility Arch Development Support"  
$ yum -y install openldap.i386 libxml2.i386 boost.i386
```

Also note that *Oracle ODBC version 11 drivers DO NOT WORK with unixODBC <= 2.11*, so, install the Oracle ODBC 32bit v. 10g drivers from the official oracle site and the SQLplus package. SQLplus can be found as an RPM, ODBC drivers are distributed as a zip file. After installing the ODBC drivers, ensure that the path to libsqora.so.10.1 file **is included** in the /etc/ld.so.conf file, so that unixODBC can find it. After installing the instant client, drivers and SQLplus, you have to put some things into the /etc/odbcinst.ini and in the /etc/odbc.ini.

Here are two example files:

### \$cat /etc/odbc.ini

```
[AMGA_oracle]  
# the same name that you used for the service in the tnsnames.ora file  
ServerName = oracle10g  
# the name of the driver that you specify in the /etc/odbcinst.ini  
Driver = Oracle10g  
#LEAVE THE FOLLOWING AS IS  
Application Attributes = T  
Attributes = W  
BatchAutocommitMode = IfAllSuccessful  
CloseCursor = F  
DisableDPM = F  
DisableMTS = T  
EXECSchemaOpt =  
EXECSyntax = T  
Failover = T  
FailoverDelay = 10  
FailoverRetryCount = 10  
FetchBufferSize = 64000  
ForceWCHAR = F  
Lobs = T  
Longs = T  
MetadataIdDefault = F  
QueryTimeout = T  
ResultSets = T  
SQLGetData extensions = F  
Translation DLL =  
Translation Option = 0
```

### \$cat /etc/odbcinst.ini

```
[Oracle10g]  
Description = Oracle 10g Linux ODBC driver
```

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```
# Path to the file that you installed the oracle instant client and ODBC drivers.
Driver      = /usr/lib/oracle/10.2.0.3/instantclient_10_2/libsqora.so.10.1
#LEAVE THE REST AS IS
FileUsage   =1
CPTimeout   =
CPReuse     =
```

### \$cat \$TNS\_ADMIN/tnsnames.ora

```
oracle10g =
  (DESCRIPTION =
    (ADDRESS_LIST =
      (ADDRESS = (PROTOCOL = TCP) (HOST = oracle10g.in.cs.ucy.ac.cy) (PORT = 1521))
    )
    (CONNECT_DATA =
      (SID = xe)
    )
  )
```

The TNS\_ADMIN variable has to point to the directory where the tnsnames.ora resides.

### Checklist:

- Install the Oracle instant client, odbc drivers and SQLplus - the 32bit ones
- Ensure that LD\_LIBRARY\_PATH contains the path with the instant client libraries
- Edit the /etc/odbc.ini and /etc/odbcinst.ini files
- Create a tnsnames.ora file and point the TNS\_ADMIN environmental variable to the directory that contains it. Put it in the /etc/profile.
- You are ready to test!

## Test the environment

If you have configured the above setting as you should, then executing: `$ isql -v DSN_NAME_THAT_YOU_CREATED_IN_ODBC.INI username password` should allow you to login to your database. If isql can connect then ODBC drivers etc are working nice!

You should also test the sqlplus command with something like this:

```
$ sqlplus
'username/password@ (DESCRIPTION= (ADDRESS_LIST= (ADDRESS= (PROTOCOL=TCP) (PORT=1521) (HOST=oracle10g.i
(SERVER=DEDICATED))) )'
```

**Both commands MUST WORK** before you run the AMGA\_oracle yaim script.

## Install the service

Install the glite-AMGA\_oracle metapackage on the machine. Edit the /opt/glite/yaim/examples/siteinfo/services/glite-AMGA\_postgres site-info file see here first (Configuration Variables ) and run

```
cd /opt/glite/yaim;
./bin/yaim -c -s examples/siteinfo/services/glite-AMGA_oracle -n glite-AMGA_oracle
```

Your installation must have worked, good luck!

Note that yaim only provides a basic installation. Please read the AMGA documentation [here](#).

-- AsteriosKatsifodimos - 18 Feb 2008

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