

# tomeuwork

My own tips on IT

## How to install Oracle SQLPlus and Oracle Client in MAC OS

Hi,

The How To has been extracted from the following link: <http://www.joelennon.ie/2014/02/06/installing-oracle-instant-client-mac-os-x/>

I just skipped some text and modified some paths to adapt it to oracle client 11.2.0.4 release.

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### 1. Download the files from the Oracle Site

<http://www.oracle.com/technetwork/topics/intel-macsoft-096467.html>

Be sure to grab the following two files:

- Instant Client Package – Basic
- Instant Client Package – SQL\*Plus

### 2. Extract the files and create the proper folder structure.

Open a Terminal window and unzip the downloaded files.

```
$ unzip -qq instantclient-basic-macos.x64-11.2.0.4.0.zip
```

```
$ unzip -qq instantclient-sqlplus-macos.x64-11.2.0.4.0.zip
```

Note: The -qq flag will tell the unzip utility to run in quieter mode, preventing any output from being displayed on the screen.

By default, the archive will extract all these files to a single directory. Instead, we'll create a nicely structured directory to keep these files in your user Applications folder.

```
$ mkdir -p /Applications/oracle/product/instantclient_64/11.2.0.4.0/bin
```

```
$ mkdir -p /Applications/oracle/product/instantclient_64/11.2.0.4.0/lib
```

```
$ mkdir -p /Applications/oracle/product/instantclient_64/11.2.0.4.0/jdbc/lib
```

```
$ mkdir -p /Applications/oracle/product/instantclient_64/11.2.0.4.0/rdbms/jlib
```

```
$ mkdir -p /Applications/oracle/product/instantclient_64/11.2.0.4.0/sqlplus/admin
```

```
$ mkdir -p /Applications/oracle/product/instantclient_64/11.2.0.4.0/network/admin
```

Next, move the files over to these directories as follows:

```
$ cd instantclient_11_2
```

```
$ mv ojdbc* /Applications/oracle/product/instantclient_64/11.2.0.4.0/jdbc/lib/
```

```
$ mv x*.jar /Applications/oracle/product/instantclient_64/11.2.0.4.0/rdbms/jlib/
```

```
$ mv glogin.sql /Applications/oracle/product/instantclient_64/11.2.0.4.0/sqlplus/admin/
```

```
$ mv *dylib* /Applications/oracle/product/instantclient_64/11.2.0.4.0/lib/
```

```
$ mv *README /Applications/oracle/product/instantclient_64/11.2.0.4.0/
```

```
$ mv * /Applications/oracle/product/instantclient_64/11.2.0.4.0/bin/
```

### 3. Create a proper tnsnames.ora file to define proper connection strings

Copy or create a tnsnames.ora file to

```
/Applications/oracle/product/instantclient_64/11.2.0.4.0/network/admin/
```

Example:

Create the tnsnames.ora file with the vi editor, paste the following lines and save it.

**MYDB=**

**(DESCRIPTION=**

**(ADDRESS=**

**(PROTOCOL=TCP)**

**(HOST=\*\*\*\*\*)**

**(PORT=1521)**

**)**

**(CONNECT\_DATA=**

**(SERVER=dedicated)**

**(SID=MYDB-SID)**

**) )**

(You can better ask to a DBA to review the connection test connection)

#### 4. Set up environment variables

Edit or create a file .bash\_profile

```
$ cd /Users/UserName
```

```
$ vi ~/.bash_profile
```

if you haven't created a .bash\_profile before the file will be empty, otherwise just add the following lines to the end of the existing file.

```
export ORACLE_HOME="/Applications/oracle/product/instantclient_64/11.2.0.4.0"
```

```
export PATH=$ORACLE_HOME/bin:$PATH
```

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```
export DYLD_LIBRARY_PATH=$ORACLE_HOME/lib
```

To load this profile, run the following command:

```
$ source ~/.bash_profile
```

Assuming you have set up your tnsnames.ora file correctly, you should now be able to connect one of the databases as follows:

## 5. Start using SQLPlus

```
$ sqlplus username/password@database
```

## 6. Did you enjoy? That's all folks.

\*\*\*\*\*

### *Fixing command history for using SQLPlus line edition with arrow keys*

If you have used the command-line SQLPlus in a Windows environment, you will probably be used to using the command history to execute previous SQL statements using the arrow keys. One thing you'll notice in SQLPlus for the Mac is that this doesn't work by default, if you hit the up key you'll see a strange character sequence `^[A` rather than the previous command. Let's go ahead and fix this now.

To do this, you'll need to use `rlwrap`. You could download this from source and build it yourself, but I find it much easier to use the fantastic `brew` package manager for Mac OS X. Head over to <http://brew.sh/> and follow the instructions to install and set up Homebrew (it's very easy). With Homebrew installed, you can now easily install `rlwrap` on your system with one command:

```
$ ruby -e "$(curl -fsSL https://raw.githubusercontent.com/Homebrew/install/master/install)"
```

```
$ brew install rlwrap
```

The final thing you need to do is tell your system to use `rlwrap` whenever you use `SQL*Plus`. To do that, you'll need to edit your `.bash_profile` file again.

```
$ vi ~/.bash_profile
```

Add the following line to the end of the file.

```
alias sqlplus='rlwrap sqlplus'
```

Now reload the .bash\_profile:

```
$ source ~/.bash_profile
```

Now, when you launch SQL\*Plus and try to use the arrow keys to access previous commands, it will work.

This entry was posted in Mac OS and tagged MAC, Mac OSX, Oracle client, OSX, SQLPlus on May 12, 2014 [https://tomeuwork.wordpress.com/2014/05/12/how-to-install-oracle-sqlplus-and-oracle-client-in-mac-os/].

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## 12 thoughts on “How to install Oracle SQLPlus and Oracle Client in MAC OS”



sula

November 21, 2014 at 4:06 pm

Use `ruby -e "$(curl -fsSL https://raw.githubusercontent.com/Homebrew/install/master/install)"` instead of `ruby -e "$(curl -fsSL https://raw.githubusercontent.com/Homebrew/homebrew/go/install)"`

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Iulian

February 23, 2015 at 1:17 pm

Which one is ~/.bash\_profilesource file? Because when i executed this line “source ~/.bash\_profilesource ~/.bash\_profile”, this error occurred: “-bash: /Users/macbook/.bash\_profilesource: No such file or directory”. Thanks!

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**tomeumir**

Post author

September 29, 2015 at 8:01 am

sorry, there was a typo. You only have to run:

```
$source ~/.bash_profile
```

I have corrected the post,  
thanks!

**Alex**

February 24, 2015 at 5:43 pm

Hi, I done everything in the tutorial but the last part (5) `$ sqlplus username/password@database` says sqlplus command not found. Can you help me please?

**Casper**

July 14, 2015 at 6:16 pm

Thanks for this. It was very helpful. I ran into one problem ("ORA-21561: OID generation failed", which also appeared as "ORA-12162: TNS:net service name is incorrectly specified". I solved it by typing "hostname" at the command line and adding the result to my /etc/hosts file. The new line looks something like this: "127.0.0.1 local\_mac\_name".

**Alexander**

August 20, 2015 at 8:45 am

Thanks, this article was very helpful!

Pingback: [Installing Oracle Instant Client for Mac OSX | Ajitabh Pandey.Info](#)



Hugo Hamon

September 28, 2015 at 11:48 am

Thanks a lot for this article! It seems it works like a charm!

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Sofien Benharchache

September 28, 2015 at 10:40 pm

I have :

-bash: sqlplus: command not found

why?

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tomeumir

Post author

September 29, 2015 at 7:52 am

Check the environment variables that you have set in step 4. You can type the following commands in a terminal window:

```
Tomeus-MBA-2:~ tomeu.mir$ echo $ORACLE_HOME
```

```
/Applications/oracle/product/instantclient_64/11.2.0.4.0
```

```
Tomeus-MBA-2:~ tomeu.mir$ echo $PATH
```

```
/Applications/oracle/product/instantclient_64/11.2.0.4.0/bin:/usr/local/apache-tomcat-7.0.53/bin:/opt/mongodb/bin:/usr/bin:/bin:/usr/sbin:/sbin:/usr/local/bin
```

```
Tomeus-MBA-2:~ tomeu.mir$ echo $DYLD_LIBRARY_PATH
```

```
/Applications/oracle/product/instantclient_64/11.2.0.4.0/lib
```

If any of the echo commands returns you blank, then for sure that you did not update properly the .bash\_profile. Else crosscheck that the paths that I marked in bold just above are the same ones where you have done the installation.

Regards,  
Tomeu

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Pingback: [oracle client mac os X install](#) | [tkwordpresscomblog](#)



Owen Dall

December 20, 2015 at 6:46 pm

Thanks much for this!

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