**cx\_Oracle Installation on MacOS Steps (works on Sierra – base steps taken from** [**https://gist.github.com/plasx/b6aad8b0626f71ed2904def1f29e2111**](https://gist.github.com/plasx/b6aad8b0626f71ed2904def1f29e2111) **and adjusted where needed after experimenting):**

1. Download the instantclient-basic and instantclient-sdk files from the Oracle website here: <http://www.oracle.com/technetwork/topics/intel-macsoft-096467.html>
   * This guide will use the 12.1.0.2.0 64-bit version

* + [instantclient-basic-macos.x64-12.1.0.2.0.zip](http://www.oracle.com/technetwork/topics/intel-macsoft-096467.html)

* + [instantclient-sdk-macos.x64-12.1.0.2.0.zip](http://www.oracle.com/technetwork/topics/intel-macsoft-096467.html)

1. Create a directory where you will house all of your Oracle files for this installation. This will be your ORACLE\_HOME path. I created the directory /usr/local/lib/share/oracle
2. In your .bash\_profile, add the following (change as needed):

export ORACLE\_HOME=/usr/local/lib/share/oracle

export VERSION=12.1.0.2.0

export ARCH=x86\_64

1. Move your Basic and SDK zip files into your ORACLE\_HOME directory

mv instantclient-basic-macos.x64-$VERSION.zip\ $ORACLE\_HOME

mv instantclient-sdk-macos.x64-$VERSION.zip\ $ORACLE\_HOME

1. Unpack the files in your ORACLE\_HOME

cd $ORACLE\_HOME

tar -xzf instantclient-basic-macos.x64-$VERSION.zip

tar -xzf instantclient-sdk-macos.x64-$VERSION.zip

1. Create symbolic links inside the instant\_client folder

cd instantclient\_12\_1

ln -s libclntsh.dylib.12.1 libclntsh.dylib

ln -s libocci.dylib.12.1 libocci.dylib

1. Move the needed files into the parent oracle directory and clean up

cd $ORACLE\_HOME

rm instantclient-basic-macos.x64-$VERSION.zip

rm instantclient-sdk-macos.x64-$VERSION.zip

mv -v instantclient\_12\_1/\* .

rm -rf instantclient\_12\_1/

1. Switch into the root account

sudo su root

1. Export library paths and force the rpath variable

export DYLD\_LIBRARY\_PATH=$ORACLE\_HOME

export LD\_LIBRARY\_PATH=$ORACLE\_HOME

export FORCE\_RPATH=TRUE

1. Install cx\_Oracle through pip

pip install cx\_oracle