

## SETTING UP YOUR MAC TO USE ORACLE Tora

I ran into some issues while setting up my Mac even after following the instructions on UB's CSE IT Wiki page. So I thought this might be helpful if you are having similar problems.

The thing that is not mentioned on the wiki is that if you are using Mac 10.8 or higher, it doesn't come up bundled with XQuartz, which is required for Windowing the terminal output. I kept getting error 'Cannot output to display' even after doing everything right. You need to install XQuartz from here: <http://xquartz.macosforge.org/landing/>

If you have set up everything else correctly, it should now work. Nevertheless, here are the detailed steps that I followed:

1. Fire up your favorite Terminal
2. Then you would ssh to timberlake "ssh -Y [username@timberlake.cse.buffalo.edu](mailto:username@timberlake.cse.buffalo.edu)"
3. Once you are logged in, you need to set the path for LD\_LIBRARY and ORACLE\_HOME. You can add this path to your shell profile so that you don't have to do this everytime you start a new session.
4. But before you add it, you need to check which shell you are using by typing "echo \$SHELL". If you are using *csh/tcsh* then you need to add the PATH in *.cshrc* file. If you are using *bash*, add the PATH to *.bash\_profile*. \*
5. So depending on your shell, open up your respective profile. In my case, it was *tcsh* so I made changes to my *.cshrc* file. You can use 'vi' or any other editor to make changes.
6. Type in 'vi ~/.cshrc'
7. At the end of the file, add these two lines (without quotes) and save the changes:
  - "setenv LD\_LIBRARY\_PATH /util/lib"
  - "setenv ORACLE\_HOME /util/oracle/product/current/client\_1"
8. Also, make sure you have installed XQuartz mentioned above .
9. That's it! Now you can open up Tora, by just typing "tora" in your shell. You don't have to set those environment variables for each session!
10. To apply these changes, you either need to restart your terminal or just restart your shell. You can do "source ~/.cshrc"

Hope this helps!

(These steps will work for Windows machines too, except, you need to install X-Win 32 instead of XQuartz and enable forwarding to X11 in your terminal client. Rest of the steps should be the same)

---

\* If you need additional help with adding environment variables to your profile, here's a helpful link: <http://kb.iu.edu/data/acar.html>

\*\* UB's CSE IT Wiki Page: <https://wiki.cse.buffalo.edu/services/content/tora>