Installing DSpace on OSX

Updated Guide Available

An updated guide to Installing DSpace on OSX has been created. See: Install DSpace on OSX (2014)

Reference documentation: http://dspace.org/technology/system-docs/install.html

See Installing DSpace on Mac OS X for a newer, less terse version.

Notes

- OSX 10.4 November 2006, Java 1.5, X_Code tools 2.3?
- These instructions seem to work fine, and are the same for OS X and OS X Server.
- I don't use the older version of tomcat installed with OS X Server, nor do I attempt to update it.
- I run tomcat on port 80 and I have not tried to use Apache with tomcat.

Start Here;

- create a user postgres - use this for your postgres install
- create a user dspace - use this for both dspace and tomcat
- Update java With system update (J2RE version 1.5)
- Install xcode tools. You need it for Ant. Probably other stuff too.
- Install tomcat5.5 http://www.bartbusschots.ie/blog/?p=201 is a good guide - just remember to use the user dspace instead of tomcat. I have only done steps one to three.
- Install postgres-8.1 http://www.entropy.ch/software/macosx/postgresql/ is a good guide that includes postgres prebuilt as a osx package for easy installation. (works fine for 10.4)

    ```bash
    sudo mkdir /dspace; sudo chown dspace /dspace
    ```

- Create the PostgreSQL 'dspace' user and the 'dspace' database. The key here is to issue each command using `sudo` as the Unix 'postgres' user:

    ```bash
    sudo -u postgres createuser -U postgres -d -A -P dspace
    sudo -u dspace createdb -U dspace -E UNICODE dspace
    ```

If you use the sites above, postgres and tomcat will be in the /usr/local part of your filesystem.

modify /etc/profile as follows;

    ```bash
    # System-wide .profile for sh(1)
    PATH="/bin:/sbin:/usr/bin:/usr/sbin:/usr/local/bin"
    export PATH
    if [ "$BASH-No" != "no" ] ; then
        [ -r /etc/bashrc ] && . /etc/bashrc
    fi
    #For Tomcat
    export JAVA_HOME="/System/Library/Frameworks/JavaVM.framework/Versions/1.5.0/Home"
    export CATALINA_HOME="/usr/local/tomcat"
    export JAVA_OPTS="-Xmx512M -Xms64M -Dfile.encoding=UTF-8"
    ```

Open a NEW terminal (so the updates to profile are available) and follow the dspace install instructions.

NOTE: The Manakin DSpace XMLUI works fine (so far), but you will have to update the context.xml to include the location of DSpace config file (dspace.cfg)