

Steps to Setting Up Earth 0.2 on Mac OS X Leopard and maybe Linux

1. Stuffs that you need
 - UN*X-based operating system (I'm not sure whether the daemon will work on Windows PC, or not)
 - SVN to download the latest revision of Earth
 - PostgreSQL database server + optional db tools
 - git to prepare for repository
2. Assumptions
 - Ruby and Rails are already pre-installed in Leopard.
 - This instruction sheet is based on the factory configuration of Ruby on Rails on Leopard.
3. Install PostgreSQL
 - (a) Download PostgreSQL from <http://www.postgresqlformac.com/server/>.
 - (b) Follow the instructions at <http://www2.russbrooks.com:8080/2007/11/4/install-postgresql-on-mac-os-x-10-5-leopard>

NOTE: You can ignore the steps about installing pgAdmin and PostgreS Gem.
4. Get the Ruby Gems
 - (a) Launch Terminal and have your Ruby and Rails updated to the latest version.

Type the following into Terminal:

```
sudo gem update --system
sudo gem install rails
sudo gem update rake
sudo gem install rcov
sudo gem install postgres
```

The first command is to update the overall RubyGems, while the rest are pretty much self-explanatory.
 - (b) You can type

```
gem list
```

to check all the gems you installed. And if you are adventurous, you can try

```
gem list -r
```

to check all available gems on the remote gem server.
5. Setup SVN, if you have not.
 - (a) Download and install SVN from <http://downloads.open.collab.net/binaries.html>
6. Setup git

- (a) Follow the instructions at <http://www.dekorte.com/blog/blog.cgi?do=item&id=2539>
NOTE: The instruction DOES NOT install the latest stable release. Check the releases at <http://kernel.org/pub/software/scm/git/>. The version I got is 1.5.4.4.

- (b) You can skip the part to initialize a repo for now. We will use them once we have the repo from RSP.

7. Setting up Earth

- (a) Go to your development space and checkout Earth from RSP's SVN repository
`svn co https://open.rsp.com.au/svn/earth/trunk earth`
- (b) Change directory to the checked out directory.
- (c) Do a `grep` command in the `db/migrate` directory for
`add_index :[[a-z]*[:punct:]]* :`
that looks for all files containing
`add_index ... :unique`
line.
- (d) Replace “:unique” to “:unique => true” to the end of the `add_index` lines in all the affected files. This is the typo that causes the migration to fail.
Thanks to David Hemer.
- (e) Start the database up
`sudo -u postgres postgres -D /Library/PostgreSQL8/data`
- (f) Setup databases in PostgreSQL by typing the following commands:
`sudo -u postgres createuser --no-superuser --no-createdb --no-createrole earth`
`sudo -u postgres createdb --owner=earth earth_production`
`sudo -u postgres createdb --owner=earth earth_test`
`sudo -u postgres createdb --owner=earth earth_development`
- (g) Back in Terminal, change directory to the root in the Earth directory and type:
`rake db:migrate`

NOTE: Once you get passed this point, the rest are pretty much done. You can check out the instructions from RSP at <http://open.rsp.com.au/projects/earth/wiki/InstallInstructions-0.2>

Apologies to Windows members. I do not know how to setup Earth on Windows. Also, apologies to Linux members, I am not really sure whether the steps are identical.

To install Rails, there is a comprehensive instruction set at <http://www.rubyonrails.org/down>

Anyway, please feel free to feedback and contribute if you find any issue in this list of instructions.