Software Development

All about software development tricks on Linux

- Creating War File in Linux
- Standard Procedures for CakePHP Application Deployment
- Installing Clozure CL and QuickLisp on CentOS 7

Creating War File in Linux

1. CD to war directory in the project folder
2. Execute `jar -cvf .war *`

Standard Procedures for CakePHP Application Deployment

1. Clone Source File

1. `git clone <git url>`

2. Setup Database

1. `mysql -uroot -p`
2. `create database <database name>;`
3. `grant all on <database name>.* to '<id>'.'localhost' identified by '<password>';`
4. `cd <path/to/cakephp>/app`
5. `Console/cake schema create`
6. `Console/cake schema update -s <update number found in app/Config/Schema/>`

3. Setup PHP

Edit `/etc/php.ini` and add the following line:

1. `date.timezone = "Asia/Kuala_Lumpur"`

4. Allow Write Access to tmp

1. `chmod -R 777 app/tmp/`

5. Setup Apache

Edit `/etc/httpd/conf/conf.d` and change `AllowOverride None` to `AllowOverride All` in `<Directory "/var/www/html">` tag. Then, restart httpd:

1. `sudo systemctl restart httpd`

(OPTIONAL) SELinux

1. `sudo setsebool -P allow_httpd_anon_write on`
2. `sudo setsebool -P allow_httpd_sys_script_anon_write on`
3. `sudo setsebool -P httpd_unified 0`
4. `sudo chcon -R -t httpd_sys_rw_content_t <path_to_cakephp_app>/app/tmp/`

Installing Clozure CL and QuickLisp on CentOS 7

Download Clozure CL

Open up terminal and enter the command: `svn co http://svn.clozure.com/publicsvn/openmcl/release/1.11/linuxx86/ccl` Where `linuxx86` is one of:

- `darwinx86`
- `linuxx86`
- `freebsdx86`
- `solarisx86`
- `windows`
- `linuxarm`

Download and Install QuickLisp

1. Download QuickLisp from https://beta.quicklisp.org/quicklisp.lisp
2. Enter the command: `./ccl/lx86cl64 --load /path/to/quicklisp.lisp`
3. In the CCL prompt enter: `(quicklisp-quickstart:install)(ql:add-to-init-file)`

Creating Scripts to Run CCL

1. Edit `./ccl/scripts/ccl` and `./ccl/scripts/ccl64` to change `CCL_DEFAULT_DIRECTORY=/usr/local/src/ccl` line to `CCL_DEFAULT_DIRECTORY=~/ccl`
2. Copy the scripts to `/usr/local/bin` directory: `sudo cp ./ccl/scripts/ccl* /usr/local/bin/`

References

- Linux Format Article
- Clozure CL Official Download Page