

Application

I wanted to have a web application through which I can access my sockets through a computer or iPad. The following components make this possible:

- Apache web server with PHP5, see [Apache2 Web Server](#)
- Cron
- The SQLite3 library, consisting of PHP files only, and myLiteAdmin.php to administer the database
- Some custom PHP code
- A daemon written in C++ utilizing the wiringPi and RCSwitch libraries, see [Access to GPIO](#)

Custom PHP code

SQLite3 library

Daemon

First, develop and trouble shoot the daemon binary.

Check the daemon

Start the daemon, then find it's process id (pid):

```
$ ps -ax | grep <daemon>
```

Find all open files:

```
# lsof -p <pid>
```

Create the init script

On Debian systems, copy the skeleton file and modify to your needs. This is quite simple and straight forward.

```
# cp /etc/init.d/skeleton ~/scripts/<daemon>
# vim <daemon>
```

Install the daemon

Copy the binary file:

```
# cp ~/binaries/<daemon> /usr/sbin
```

Copy the script:

```
# cp ~/scripts/<daemon> /etc/init.d
```

Add the daemon to the different run-levels:

```
# update-rc.d <daemon> defaults
```

Remove the daemon from the different run-levels:

```
# update-rc.d -f <daemon> remove
```

See [Daemon](#) and [LSBInitScripts](#) for more details.

Cron

Run

```
crontab -e
```

and enter the following lines:

```
*/5 * * * * wget http://localhost/path/to/web/code/state-machine.php  
* 14 * * * wget http://localhost/path/to/web/code/randomize.php
```

The first line will run the state machine every 5 minutes. The second line will randomize your on / off pattern every day at 14:00.

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