

Device Specifics:

1. PI IP Address: 192.168.2.135
2. PI system/mysql root user's password: mtotdmtotd

FROM PC WITH AN SD CARD READER/WRITER

- Download and unzip [NOOBS v1_4_1.zip](#) and extract it to SD card
- ```
rm -rf /media/1253-6711/*
cp NOOBS_v1_4_1.zip /media/1253-6711
cd /media/1253-6711/
unzip NOOBS_v1_4_1.zip
rm NOOBS_v1_4_1.zip
```
- Insert SD card and boot up Raspberry Pi
  - Install Raspbian. During Install change language and keyboard layout.
- After installation completes choose Expand Filesystem, Change User Password (mtotdmtotd), Advanced Options SSH, SPI, I2C, Update then exit the menu and reboot the pi (sudo reboot)
- Connect to the Pi using SSH then download and install WebIOPi.
- ```
wget http://sourceforge.net/projects/webiopi/files/
WebIOPi-0.7.1.tar.gz
tar -zxvf WebIOPi-0.7.1.tar.gz
cd WebIOPi-0.7.1
---- fix for pi2 ----
webiopi on raspberry pi2
1.python/native/cpuinfo.c,change "BCM2708" to "BCM2709";
2.python/native/gpio.c, change "#define BCM2708_PERI_BASE
0x20000000" to "#define BCM2708_PERI_BASE 0x3f000000";
---- ----
./setup.sh
...
WebIOPi successfully installed
* To start WebIOPi foreground : sudo webiopi [-h] [-c config] [-l
log] [-s script] [-d] [port]

* To start WebIOPi background : sudo /etc/init.d/webiopi start
* To start WebIOPi at boot : sudo update-rc.d webiopi defaults

* Weaved IoT Kit installed, log on http://developer.weaved.com to
access your device

* Look in /home/pi/WebIOPi-0.7.1/examples for Python library usage
examples
```
- Connect to the web server and make sure it is working ok. Connect something to a GPIO to test.
 - `http://<pi ip address>:8000/`

- Default user is "webiopi" and password is "raspberry"
- `curl -X POST http://192.168.2.135:8000/GPIO/22/function/OUT`
`curl -X POST http://192.168.2.135:8000/GPIO/22/value/0 --0 for on`
and 1 for off
- Install Web Stuff
- `apt-get install mysql-server phpmyadmin apache2`
- Download Web files
- `cd /var/www/; git clone https://github.com/jamiekowalczyk/MTOTD-Home-Automation.git`
- Prepare database
- `mysql -u root --password=mtotdmtotd -e "create database ci_sample"`
`mysql ci_sample -u root --password=mtotdmtotd </var/www/MTOTD-Home-Automation/web/sql/ci_sample.sql`
- Update Apache
- `<VirtualHost *:80>`
`ServerAdmin webmaster@localhost`
`DocumentRoot /var/www/MTOTD-Home-Automation/web`
`<Directory />`
`Options FollowSymLinks`
`AllowOverride None`
`</Directory>`

`<Directory /var/www/MTOTD-Home-Automation/web>`
`Options Indexes FollowSymLinks MultiViews`
`AllowOverride All`
`Order allow,deny`
`allow from all`
`</Directory>`

`ScriptAlias /cgi-bin/ /usr/lib/cgi-bin/`
`<Directory "/usr/lib/cgi-bin">`
`AllowOverride None`
`Options +ExecCGI -MultiViews +SymLinksIfOwnerMatch`
`Order allow,deny`
`Allow from all`
`</Directory>`

`ErrorLog ${APACHE_LOG_DIR}/error.log`
`# Possible values include: debug, info, notice, warn, error,`
`crit,`
`# alert, emerg.`

```
LogLevel warn
CustomLog ${APACHE_LOG_DIR}/access.log combined
</VirtualHost>
```

- `a2enmod rewrite; service apache2 restart`
- Update CodeIgniter Configuration (`/var/www/MTOTD-Home-Automation/web/application/config/config.php`)
 - `$config['base_url'] = 'http://192.168.2.135/';`
- Login to web administration panel
 - Username/password: admin/password