

# Installation

*WebIOPi is developed and tested on **Raspbian**.* You only need Python, either 2.7 or 3.2. Download, then extract and install WebIOPi. The setup script will automatically download and install required dependencies using apt-get. You may have to manually install GCC and Python development headers if you are *not* using Raspbian.

**Upgrade note:** *Stop your existing WebIOPi service, then process with the setup. Your configuration will be kept but others files will be override.*

See downloads page (DOWNLOADS.html) to get latest package, and adapt x.y.z with the version you download.

```
$ tar xvfz WebIOPi-x.y.z.tar.gz
$ cd WebIOPi-x.y.z
$ sudo ./setup.sh
```

*Setup may take a moment.*

## Running WebIOPi

Finally, use webiopi command :

```
$ sudo webiopi [-h] [-c config] [-l log] [-s script] [-d] [port]
```

Options:

<b>-h, --help</b>		<b>Display this help</b>
<b>-c, --config</b>	<b>file</b>	Load config from <b>file</b>
<b>-l, --log</b>	<b>file</b>	<b>Log to file</b>
<b>-s, --script</b>	<b>file</b>	Load script from <b>file</b>
<b>-d, --debug</b>		Enable DEBUG

Arguments:

port	Port to bind the HTTP Server
------	------------------------------

For instance, to start with verbose output and the default config file :

```
$ sudo webiopi -d -c /etc/webiopi/config
```

You're done, and ready to enjoy WebIOPi ! But the server and GPIO state will be lost when you'll stop the script (CTRL-C) or close the terminal.

## Running WebIOPi (Daemon)

You can also start/stop the background service, the configuration will be loaded from /etc/webiopi/config.

```
$ sudo /etc/init.d/webiopi start
```

```
$ sudo /etc/init.d/webiopi stop
```

## Auto start at boot

To setup your system to start webiopi at boot :

```
$ sudo update-rc.d webiopi defaults
```

To remove webiopi start from boot :

```
$ sudo update-rc.d webiopi remove
```

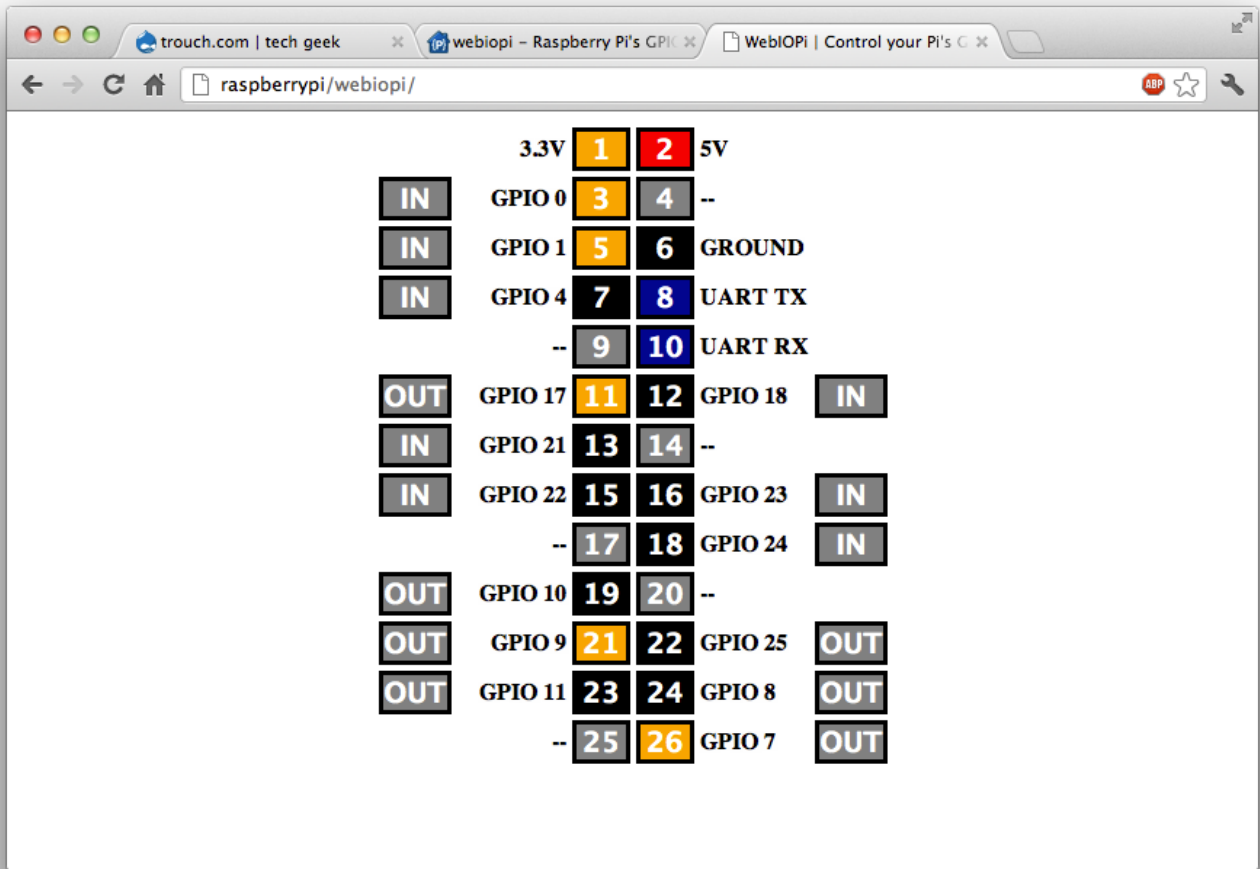
## Access WebIOPi over local network

If your Raspberry Pi is connected to your network, you can open a browser to `http://raspberrypi:8000/` (`http://raspberrypi:8000/`) with any device of your network. *Replace raspberrypi by its IP.*

**Default user is "webiopi" and password is "raspberry"**

By choosing the GPIO Header link on the main page, you will be able to control GPIO using a web UI which looks like the board header.

- Click/Tap the OUT/IN button to change GPIO direction.
- Click/Tap pins to change the GPIO output state.



# Access WebIOPi over Internet

Thanks to Weaved IoT Kit, it's easy to access your Raspberry from anywhere in a secure fashion.

## Register on the Weaved developer portal

Go to <https://developer.weaved.com/portal/> (<https://developer.weaved.com/portal/>) and follow instruction to create an account.

## Download Weaved for Raspberry Pi

Copy and paste the command line below into a terminal window or SSH client connected to your Raspberry Pi, then hit the Enter key.

```
wget https://github.com/weaved/installer/raw/master/binaries/weaved-nixinstall
r 1.2.5.bin
```

## Install Weaved

Make the installer executable:

```
chmod +x weaved-nixinstaller_1.2.5.bin
```

Launch the installer:

```
./weaved-nixinstaller_1.2.5.bin
```

Enter the e-mail address and password for your Weaved account.

```
Please enter your Weaved Portal Username (email address):
testpilot@example.com

Now, please enter your password:
[REDACTED]

previous version first.
```

When asked, choose WebIOPi during the install process. then enter an alias, or nickname for your device.

```
We will now register your device with the Weaved backend services.
Please provide an alias for your device:
```

Note: If you run the installation more than once, you'll get this question.

```
It looks as if there's a previous version of WeaveConnectd service installed.
Would you like to uninstall the prior installation before proceeding? [y/n] [REDACTED]
```

Support of multiple services is not fully tested in 1.2.5. We recommend that you answer 'y' here to remove the previous installation before proceeding.

## Test your setup

To test the connection to your Raspberry Pi from your browser, go to the device list (<https://developer.weaved.com/portal/members/betahome.php>), find the line with your Raspberry Pi's alias, and click on "Connect". Your device's internet address will be shown in the area blurred below.

### Your current list of devices

Click on device names to connect. Your account allows for 2 hour connections.

Name	Type	Status	
Baby Room	Philips B120 Camera		<a href="#">Share</a>   <a href="#">Settings</a>
BeagleBone-http	Pi Development	online at 76.103.130.46/192.168.2.39	<a href="#">Share</a>   <a href="#">Settings</a>
BeagleBone-Los-Gatos-SSH	Beagle Bone	online at 76.103.130.46/192.168.2.39	<a href="#">Share</a>   <a href="#">Settings</a>

Click here to connect

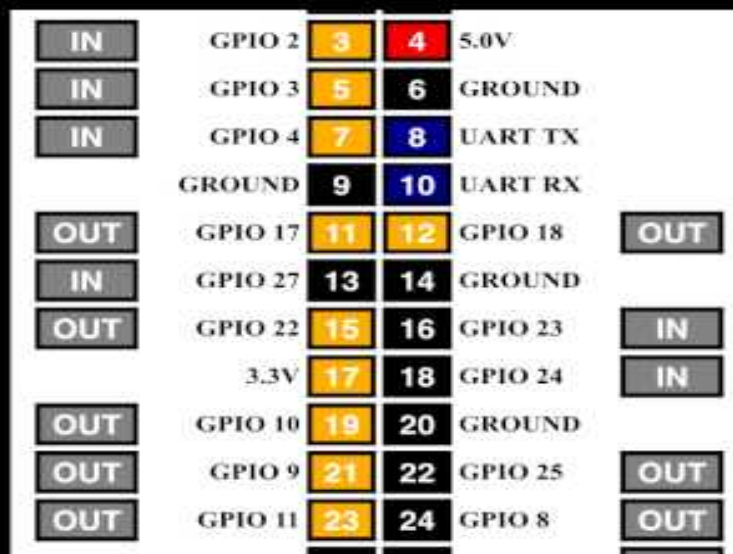
```
Location: https://github.com/weaved/installer/raw/master/binaries/weaved_WebIOPi_installer.bin [following]
--2014-11-09 23:56:46-- https://github.com/weaved/installer/raw/master/binaries/weaved_WebIOPi_installer.bin
Resolving github.com (github.com)... 192.30.252.130
Connecting to github.com (github.com):192.30.252.130:443... connected.
HTTP request sent, awaiting response... 302 Found
Location: https://raw.githubusercontent.com/weaved/installer/master/binaries/weaved_WebIOPi_installer.bin [following]
--2014-11-09 23:56:51-- https://raw.githubusercontent.com/weaved/installer/master/binaries/weaved_WebIOPi_installer.bin
Resolving raw.githubusercontent.com (raw.githubusercontent.com)... 199.27.79.133
Connecting to raw.githubusercontent.com (raw.githubusercontent.com):199.27.79.133:443... connected.
HTTP request sent, awaiting response... 200 OK
Length: 208235 (203K) [application/octet-stream]
Saving to: 'weaved_WebIOPi_installer.bin'

100%[=====] 208,235 1.09M/s in 0.2s

2014-11-09 23:56:57 (1.09 MB/s) - 'weaved_WebIOPi_installer.bin' saved [208235/208235]

pi@raspberrypi ~$ chmod +x weaved_WebIOPi_installer.bin
```

([http://www.youtube.com/watch?feature=player\\_embedded&v=q7doiTx1ryM](http://www.youtube.com/watch?feature=player_embedded&v=q7doiTx1ryM))



([http://www.youtube.com/watch?feature=player\\_embedded&v=Uhm9d\\_hrsxg](http://www.youtube.com/watch?feature=player_embedded&v=Uhm9d_hrsxg))