

## Forum des Objets Communicants et Solutions pour les Libérer...

free mother

Auteur

carlo64

Message

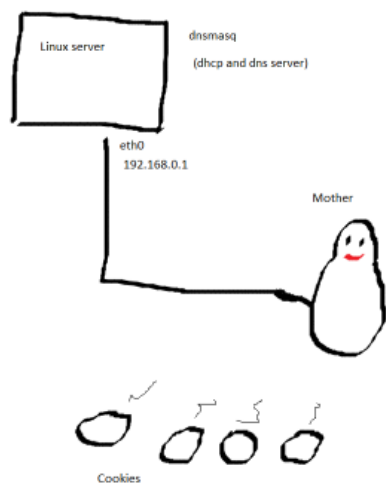
Sujet: free mother Mar 27 Mar 2018 - 19:14

Hi,  
since I can not connect my mother to the site sen.se and the media does not respond to my emails ..

we will create our own server or at least we will try ..

is very little about this argument, so any information is welcome!

necessary



a linux pc (a raspberry with raspbian is fine)  
we assume the name of the ethernet card is eth0

install the dnsmasq package (for dhcp and dns)  
apt-get install dnsmasq

we configure /etc/dnsmasq.conf

```
# global options
domain-needed
bogus-priv
no-resolv
filterwin2k
expand-hosts
domain = mydomain.net
local = /mydomain.net/
listen-address = 127.0.0.1
listen-address = 192.168.0.1

# DHCP range
dhcp-range = eth0,192.168.0.10,192.168.0.50,12h
```

we assign the ip to the network card (eth0) where we connected Mother

```
ifconfig eth0 192.168.0.1 netmask 255.255.255.0
```

add these lines to the /etc/hosts file

```
192.168.0.1 in.sen.se
192.168.0.1 pool.ntp.org
```

we modify /etc/ntp.conf to read the time from the pc clock

we add

```
server 127.127.1.0
fudge 127.127.1.0 stratum 10
```

and comment on the lines of 'pool'

----

for the server part I used <https://github.com/Pithikos/python-websocket-server> (thanks Pithikos!)

follow the installation instructions (python setup.py install)

copy the modified server program freemother.py

<https://github.com/ccarlo64/freemother>

please edit the file and set mac address variable (check it in you router)

compose with "MO" + MACADDRESS without ":"

like this

```
mac='MO0004A3F90001' ##change here
```

same in the clienttest.html

run...

```
python freemother.py
```

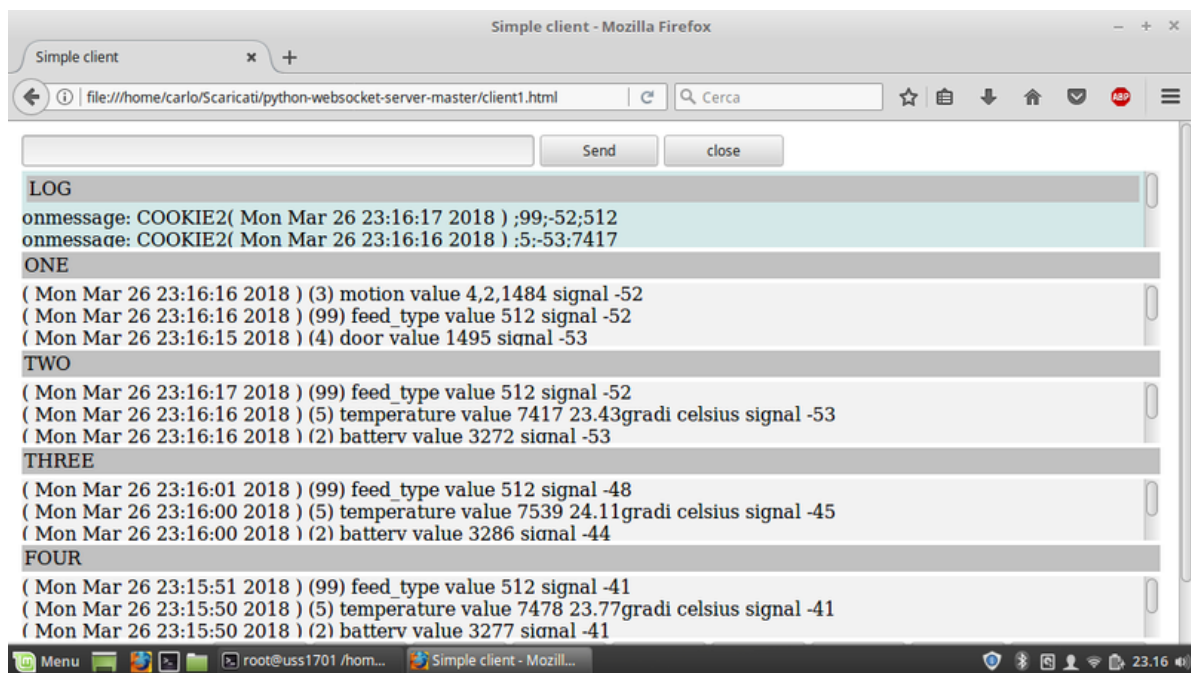
```

root@uss1701 /home/carlo/Scaricati/python-websocket-server-master
File Modifica Visualizza Cerca Terminale Aiuto
6FEC200D", "timestamp" : "2018-03-26 21:16:13", "feed_type" : "3", "signal" : "-
52", "value" : "4,2,1484"}}}
Client(1)
events
cookie uno ( Mon Mar 26 23:16:16 2018 ) ;3;-52;4,2,1484
Client(1) said: {"resource" : "events", "method" : "post", "body" : [{"node" : "
AA81082C", "timestamp" : "2006-01-90 33:09:16", "feed_type" : "5", "signal" : "-
53", "value" : "7417"}]}
Client(1)
events
cookie due ( Mon Mar 26 23:16:16 2018 ) ;5;-53;7417
Client(1) said: {"resource" : "events", "method" : "post", "body" : [{"node" : "
AA81082C", "timestamp" : "2006-01-90 33:09:18", "feed_type" : "99", "signal" : "
-52", "value" : "512"}]}
Client(1)
events
cookie due ( Mon Mar 26 23:16:17 2018 ) ;99;-52;512
Client(1) said: {"resource" : "events", "method" : "post", "body" : [{"node" : "
65EB0E1C", "timestamp" : "2018-03-26 21:16:51", "feed_type" : "1", "signal" : "-
41", "value" : "2"}]}
Client(1)
events
cookie quattro ( Mon Mar 26 23:16:50 2018 ) ;1;-41;2

```

connect Mother and after a few seconds she will smile

To see the effects, in the same pc loaded in firefox the clienttest.html



COOKIE:

the name of 4 cookies (node) are hex digit, please analyze the log on server and change the file  
this are mine

```
cookieNode=['6FEC200D','AA81082C','206B121A','65EB0E1C']
```

help me, please test!!!

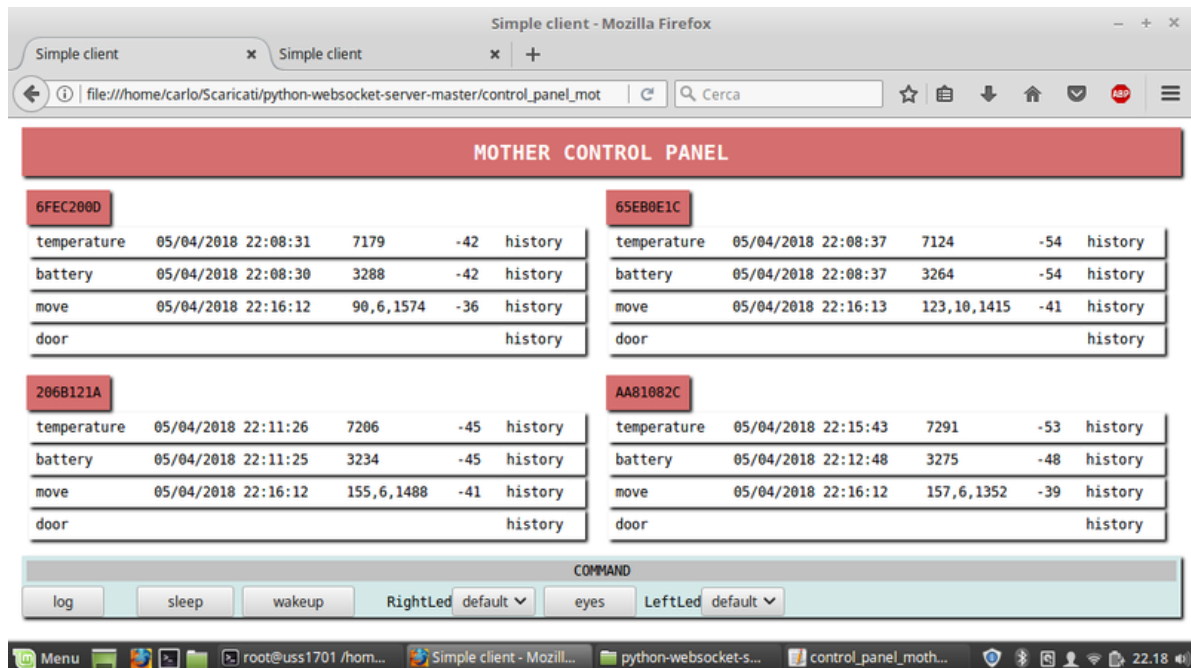
Carlo

carlo64

Sujet: Re: free mother Jeu 5 Avr 2018 - 22:48

ver 1

Added a sqlite db to store sensor data and created a page to [display data](#)



carlo64

Sujet: Re: free mother Ven 13 Avr 2018 - 18:58

added the management of the reset sounds and animations  
(tap tap between the eyes when starting M.)

to work you need a web server  
installed in the same pc for example

apt-get install webfs  
create the / var / www / html folder and copy it into the two folders

00102  
is  
00103

containing the files

default webfs is activated on localhost: 8000  
that should be 192.168.0.1 following my example

the sounds are mono wav files sampled at 16k I do not know the limits of M.  
the animations are described in the json text files you have to go a little imagination and do tests

Carlo

luismo

Sujet: Re: free mother Mar 5 Jun 2018 - 13:14

Thank you very much for your work !



I will try it as soon as possible

edit 16.06.18:  
trying to install python-websocket-server-master:  
I need to add this command before running 'python setup.py install': **sudo apt-get install python-setuptools**

edit 17.06.18:  
I connected my mother and she smile, but not for long time. After a few minutes I have that: sorry for the poor quality:

```
events
WARNING:websocket_server.websocket_server:Client must always be masked.
Client(1) disconnected
New client connected and was given id 2 192.168.0.15
Client(2) said: ("resource": "auth", "method": "post", "type": "gateway", "body": {"serial": "M0000403FF43FE", "firmware": "414"})
Invoia a Client(1)
test ("resource": "auth", "method": "post", "type": "gateway", "body": {"serial": "M0000403FF43FE", "firmware": "414"})
Client(2) disconnected

Exception happened during processing of request from ('192.168.0.15', 1026)
Traceback (most recent call last):
  File "/usr/lib/python2.7/SocketServer.py", line 596, in process_request_thread
    self.finish_request(request, client_address)
  File "/usr/lib/python2.7/SocketServer.py", line 331, in finish_request
    self.RequestHandlerClass(request, client_address, self)
  File "build/bdist.linux-armv6l/egg/websocket_server/websocket_server.py", line 168, in __init__
    StreamRequestHandler.__init__(self, socket, addr, server)
  File "/usr/lib/python2.7/SocketServer.py", line 652, in __init__
    self.handle()
  File "build/bdist.linux-armv6l/egg/websocket_server/websocket_server.py", line 181, in handle
    self.read_next_message()
  File "build/bdist.linux-armv6l/egg/websocket_server/websocket_server.py", line 244, in read_next_message
    opcode_handler(self, message_bytes.decode('utf8'))
  File "build/bdist.linux-armv6l/egg/websocket_server/websocket_server.py", line 127, in _message_received
    self.message_received(self.handler, self, msg)
  File "freemother.py", line 86, in message_received
    server.send_message(cl_mother, message)
  File "build/bdist.linux-armv6l/egg/websocket_server/websocket_server.py", line 85, in send_message
    self._unicast(client, msg)
  File "build/bdist.linux-armv6l/egg/websocket_server/websocket_server.py", line 152, in _unicast
    to_client['handler'].send_message(msg)
  File "build/bdist.linux-armv6l/egg/websocket_server/websocket_server.py", line 247, in send_message
    self.send_text(message)
  File "build/bdist.linux-armv6l/egg/websocket_server/websocket_server.py", line 297, in send_text
    self.request.send(header + payload)
  File "/usr/lib/python2.7/socket.py", line 174, in _dummy
    raise error(errno, 'Bad file descriptor')
error: (Errno 9) Bad file descriptor

New client connected and was given id 3 192.168.0.15
Client(3) said: ("resource": "auth", "method": "post", "type": "gateway", "body": {"serial": "M0000403FF43FE", "firmware": "414"})
WARNING:websocket_server.websocket_server:Client must always be masked.
Client(3) disconnected
New client connected and was given id 4 192.168.0.15
Client(4) said: ("resource": "auth", "method": "post", "type": "gateway", "body": {"serial": "M0000403FF43FE", "firmware": "414"})
WARNING:websocket_server.websocket_server:Client must always be masked.
Client(4) disconnected
New client connected and was given id 5 192.168.0.15
Client(5) said: ("resource": "auth", "method": "post", "type": "gateway", "body": {"serial": "M0000403FF43FE", "firmware": "414"})
WARNING:websocket_server.websocket_server:Client must always be masked.
Client(5) disconnected
```

And the cookies does not appears like in your example

DragoVaillant

Sujet: Re: free mother Jeu 13 Sep 2018 - 19:32

Hello,

Thank you for this great work.

I tested the software on my mother : the synchronization is going well and the data of the cookies are well received.

By cons, I have the same problem of disconnection as luismo.

Looking a little closer, it seems to happen after receiving a "time" request that is not processed by the python script.

As a workaround, I made a change to return an empty message (msgup style) and this seems to prevent disconnection.

**carlo64**

Sujet: Re: free mother Ven 14 Sep 2018 - 9:04

Hi,  
sorry for the delay!  
if you disconnect it is probably a problem in the [ping\\_part](#) that should keep the connection alive.  
It is possible that there is some unmanaged case! I'm sorry! :-)  
If you pass me your information I try to implement them in the script.  
Now I will do other tests.

Carlo

**carlo64**

Sujet: Re: free mother Ven 14 Sep 2018 - 20:18

Hi,  
I tried to leave Mother connected several minutes, the connection does not fall, I do not understand  
are you using version 11?

Carlo

**DragoVaillant**

Sujet: Re: free mother Ven 14 Sep 2018 - 20:45

Hi,  
  
Yes, I'm using the version 11.  
  
This is a "time" command that reacts as a kind of [keep-alive](#).  
  
Here is the request :  
{ "resource" : "time", "method" : "get" }  
  
I modified the script to add a response to this command.  
I only send a msg up with no other information and then the connection doesn't fall down.

**Contenu sponsorisé**

Sujet: Re: free mother

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