

Bookmarks

192.168.4.3 (raspi) - VNC Viewer

Thonny - MicroPyth...

Wastebasket

Thonny - MicroPython device :: /boot.py @ 4:20

File Edit View Run Tools Help

[boot.py] x

```
1 import network
2 ap=network.WLAN(network.AP_IF)
3 ap.active(True)
4 ap.config(essid="NodeMCU",authmode=network.AUTH_WPA_WPA2_PSK,password="hellonode")
5
```

Shell x

```
>>> ap.active()
True
>>> ap.ifconfig()
('192.168.4.1', '255.255.255.0', '192.168.4.1', '208.67.222.222')
>>> |
```

MicroPython (ESP8266)

raspberrypi

terminal.

berry Pi.

1


```
[ boot.py ] x
1 import network
2
3 wlan = network.WLAN(network.STA_IF) # create station interface
4 wlan.active(True)                 # activate the interface
5 wlan.scan()                       # scan for access points
6 wlan.isconnected()               # check if the station is connected to an AP
7 wlan.connect('NodeMCU', 'hellonode') # connect to an AP
8 wlan.config('mac')               # get the interface's MAC address
9 wlan.ifconfig()
```

```
Shell x
Type "help()" for more information.
>>> %Run -c $EDITOR_CONTENT
>>> wlan.active()
True
>>> wlan.ifconfig()
('192.168.4.4', '255.255.255.0', '192.168.4.1', '192.168.4.1')
>>>
```

Object inspector x

tuple @ 0x3ffefce0

Data Attributes

Index	Value
0	'192.168.4.4'
1	'255.255.255.0'
2	'192.168.4.1'
3	'192.168.4.1'

len: 4

```
1 import network
2
3 wlan = network.WLAN(network.STA_IF) # create station interface
4 wlan.active(True)                 # activate the interface
5 wlan.scan()                       # scan for access points
6 wlan.isconnected()                # check if the station is connected to an AP
7 wlan.connect('NodeMCU', 'hellonode') # connect to an AP
8 wlan.config('mac')                # get the interface's MAC address
9 wlan.ifconfig()
```

```
True
>>> wlan.ifconfig()
('192.168.4.4', '255.255.255.0', '192.168.4.1', '192.168.4.1')
>>> wlan.config("mac")
b'\x01\x94])\n'
>>> |
```

Object inspector

bytes @ 0x3ffef470

Data Attributes

b'\x01\x94])\n'

EXPLORER

OPEN EDITORS

LAB5

OUTLINE

TIMELINE

ARDUINO EXAMPLES

raspi.local (raspi) - VNC Viewer

aakash@raspi: ~

*wlan0

File Edit View Go Capture Analyze Statistics Telephony Wireless Tools Help

ip.addr == 192.168.4.2

No.	Time	Source	Destination	Protocol	Length	Info
5186	20.051498482	192.168.4.2	192.168.4.1	DNS	81	Standard query 0x2272 A 2.debian.pool.ntp.org
5187	20.051551867	192.168.4.2	192.168.4.1	DNS	81	Standard query 0x7858 AAAA 2.debian.pool.ntp.org
5188	20.059178065	192.168.4.1	192.168.4.2	ICMP	70	Destination unreachable (Port unreachable)
5189	20.059351711	192.168.4.1	192.168.4.2	ICMP	70	Destination unreachable (Port unreachable)
5190	20.059618169	192.168.4.2	192.168.4.1	DNS	81	Standard query 0x2272 A 2.debian.pool.ntp.org
5191	20.059719992	192.168.4.2	192.168.4.1	DNS	81	Standard query 0x7858 AAAA 2.debian.pool.ntp.org
5192	20.061244419	192.168.4.1	192.168.4.2	ICMP	70	Destination unreachable (Port unreachable)
5193	20.061454523	192.168.4.1	192.168.4.2	ICMP	70	Destination unreachable (Port unreachable)
5194	20.062347284	192.168.4.2	192.168.4.1	DNS	81	Standard query 0x2f7f A 3.debian.pool.ntp.org
5195	20.062461086	192.168.4.2	192.168.4.1	DNS	81	Standard query 0x6252 AAAA 3.debian.pool.ntp.org
5196	20.064070201	192.168.4.1	192.168.4.2	ICMP	70	Destination unreachable (Port unreachable)
5197	20.064261711	192.168.4.1	192.168.4.2	ICMP	70	Destination unreachable (Port unreachable)
5198	20.064502701	192.168.4.2	192.168.4.1	DNS	81	Standard query 0x2f7f A 3.debian.pool.ntp.org
5199	20.064570878	192.168.4.2	192.168.4.1	DNS	81	Standard query 0x6252 AAAA 3.debian.pool.ntp.org
5202	20.068958169	192.168.4.1	192.168.4.2	ICMP	70	Destination unreachable (Port unreachable)
5203	20.069107805	192.168.4.1	192.168.4.2	ICMP	70	Destination unreachable (Port unreachable)
5204	20.069950096	192.168.4.2	192.168.4.1	DNS	81	Standard query 0x28b7 A 0.debian.pool.ntp.org
5205	20.070086711	192.168.4.2	192.168.4.1	DNS	81	Standard query 0x78a3 AAAA 0.debian.pool.ntp.org
5206	20.072182544	192.168.4.1	192.168.4.2	ICMP	70	Destination unreachable (Port unreachable)
5207	20.072380096	192.168.4.1	192.168.4.2	ICMP	70	Destination unreachable (Port unreachable)
5208	20.072637596	192.168.4.2	192.168.4.1	DNS	81	Standard query 0x28b7 A 0.debian.pool.ntp.org
5209	20.072722909	192.168.4.2	192.168.4.1	DNS	81	Standard query 0x78a3 AAAA 0.debian.pool.ntp.org
5210	20.074397544	192.168.4.1	192.168.4.2	ICMP	70	Destination unreachable (Port unreachable)
5212	20.075026346	192.168.4.1	192.168.4.2	ICMP	70	Destination unreachable (Port unreachable)

Frame 5186: 81 bytes on wire (648 bits), 81 bytes captured (648 bits) on interface wlan0, id 0

0000 b6 e6 2d 34 ed a8 b8 27 eb b9 47 8a 08 00 45 00 ...4... ' ..G...E.

0010 00 43 8d 49 40 00 40 11 24 0d c0 a8 04 02 c0 a8 ..C.I@.@. \$.

0020 04 01 d8 9f 00 35 00 2f 66 05 22 72 01 00 00 015./ f."r....

0030 00 00 00 00 00 00 01 32 06 64 65 62 69 61 6e 042 .debian.

0040 70 6f 6f 6c 03 6e 74 70 03 6f 72 67 00 00 01 00 pool.ntp .org....

0050 01

wireshark_wlan083QIL1.pcapng

Packets: 12673 · Displayed: 161 (1.3%)

Profile: Default

code

Folder

timetable

ZIP

Mac OS files.zip

ZIP

lab4.zip

ScreenShots

filter nodes

common

inject

debug

complete

catch

status

link in

link call

link out

comment

function

function

switch

change

range

template

delay

trigger

Flow 1

Flow 1

Flow 2

Flow 3

Flow 4

Arduino UNO

f

foramtting value

Temperature

Formatted value of Temp

Raw value from arduino

Arduino UNO2

f

foramtting value

Humidity

Formatted Humidity

Raw value from arduino

udp 54323

f

function

Fan

fan

udp 54324

f

function

Light

light

udp 54322

f

function

AC

AC

udp 192.168.43.133:54321

dashboard

Layout

Site

Theme

Tabs & Links

Home

Default

TCP

Group

filter nodes

common

inject

debug

complete

catch

status

link in

link call

link out

comment

function

function

switch

change

range

template

delay

trigger

Flow 1

Flow 1

Flow 2

Flow 3

Flow 4

Arduino UNO

foramtting value

Temperature

Formatted value of Temp

Raw value from arduino

Arduino UNO2

foramtting value

Humidity

Formatted Humidity

Raw value from arduino

tcp:192.168.43.133:54321

connecting

function

Fan

function

fan

function

Light

function

light

function

AC

function

msg.payload

AC

tcp:192.168.43.160:54321

dashboard

Layout

Site

Theme

Tabs & Links

Home

Default

TCP

Group