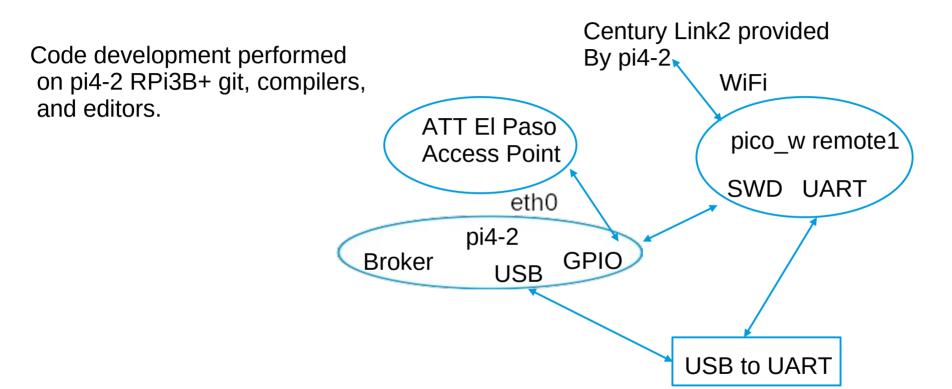
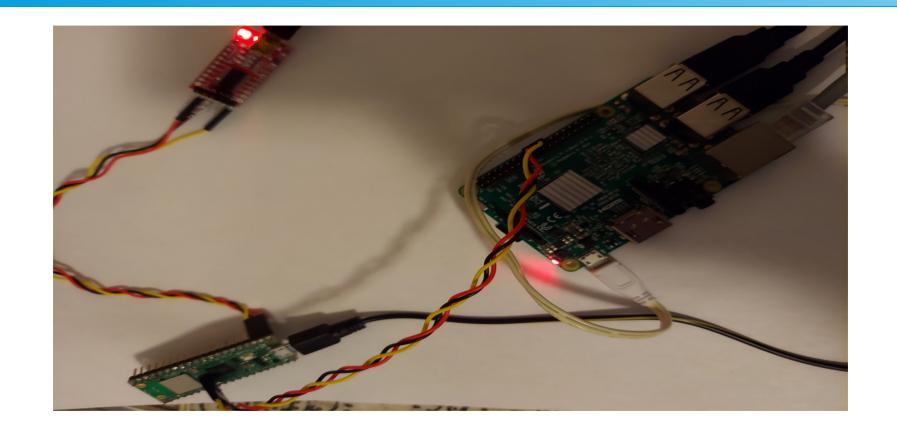
Raspberry Pi3B+ pi4-2 & pi4-1





Steps to build pico_w code

- Edit pico_w-mqtt/6remotes.sh
- Edit
 pico_w-mqtt/pico_w/wifi/freert
 os/iperf/picow_freertos_iperf.c
- ./6remotes.sh
- cd remote1
- ./exe-ocd.sh

devel@pi4-2:~ \$ mosquitto_sub -h 'pi4-50' -t 'pico/status' -u 'testuser' -P 'password123'

Onboard temperature = 25.27 C remote2

devel@pi4-2:~ \$ mosquitto_sub -t 'pico/status' - u 'testuser' -P 'password123'

Onboard temperature = 25.27 C remote2

devel@pi4-1:~ \$ mosquitto_sub -h 'pi4-50' -t 'pico/status' -u 'testuser' -P 'password123'

Onboard temperature = 25.27 C remote2

devel@pi4-1:~ \$ mosquitto_sub -t 'pico/status' - u 'testuser' -P 'password123'

Onboard temperature = 25.27 C remote2

Remote debug devel@p4-2:~/pico_w-mqtt \$./pi_tcp_tests/cli1

- Socket created successfully
- Connected with server successfully

devel@pi4-1:~ \$ mosquitto_sub -h 'pi4-50' -t 'pico/status' -u 'testuser' -P 'password123'

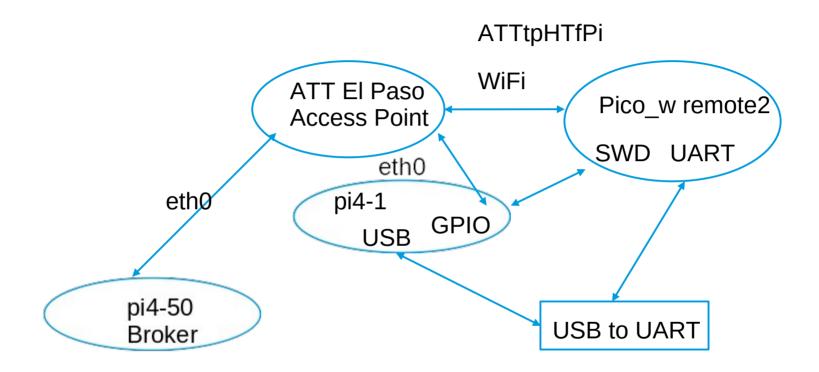
Onboard temperature = 77.48 F remote2

devel@pi4-1:~ \$ mosquitto_sub -t 'pico/status' - u 'testuser' -P 'password123'

Onboard temperature = 77.48 F remote2

devel@pi4-2:~ \$ mosquitto_sub -t 'pico/status' - u 'testuser' -P 'password123'

Onboard temperature = 77.48 F remote2

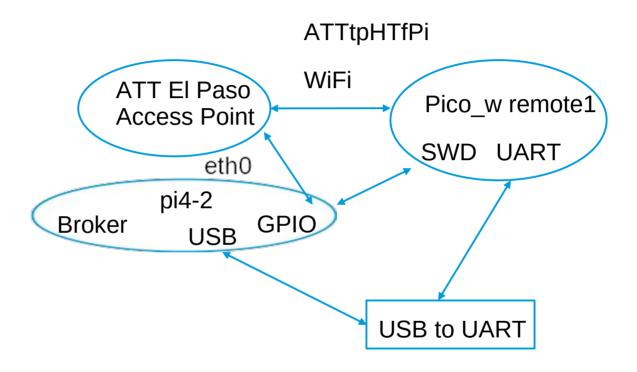


Switching Broker from pi4-50 to pi4-1

pico_w-mqtt/pico_w/wifi/feertos/iperf/picow_freertos_iperf.c

Switching Broker from pi4-50 to pi4-2

pico_w-mqtt/pico_w/wifi/feertos/iperf/picow_freertos_iperf.c



devel@pi4-1:~ \$ minicom myusb0

Starting FreeRTOS on core 0:

Connected.

MQTT client "remote2" connection cb: status 0

MQTT client "remote2" request cb: err 0

MQTT client "remote2" request cb: err 0

Starting server at 192.168.17.102 on port 4001

ntp address 207.5.137.133

got ntp response: 14/07/2023 22:01:58

devel@pi4-2:~ \$ minicom myusb0

Welcome to minicom 2.8

OPTIONS: I18n

Port /dev/ttyUSB0, 20:50:31

Press CTRL-A Z for help on special keys

got ntp response: 16/07/2023 11:40:01

devel@pi4-2:~ \$ minicom myusb0

```
Starting FreeRTOS on core 0:
Connecting to Wi-Fi...
Starting FreeRTOS on core 0:
Connecting to Wi-Fi...
Connected.
MQTT client "remote1" connection cb: status 0
MQTT client "remote1" request cb: err 0
MQTT client "remote1" request cb: err 0
Starting server at 192.168.13.116 on port
4001
ntp address 147.182.158.78
got ntp response: 16/07/2023 11:41:41
got ntp response: 16/07/2023 11:42:12
Alarm Fired At Sunday 16 July 11:42:41 2023
ntp address 162.159.200.1
got ntp response: 16/07/2023 11:42:43
```

devel@p4-2:~/pico_w-mqtt/remote1 \$ iperf -c

```
Client connecting to remote1, TCP port 5001
TCP window size: 85.0 KByte (default)

[ 3] local 192.168.13.1 port 34422 connected with 192.168.13.116 port 5001
[ ID] Interval Transfer Bandwidth
[ 3] 0.0000-10.0340 sec 16.0 MBytes 13.4 Mbits/sec
```