

*****Default*****

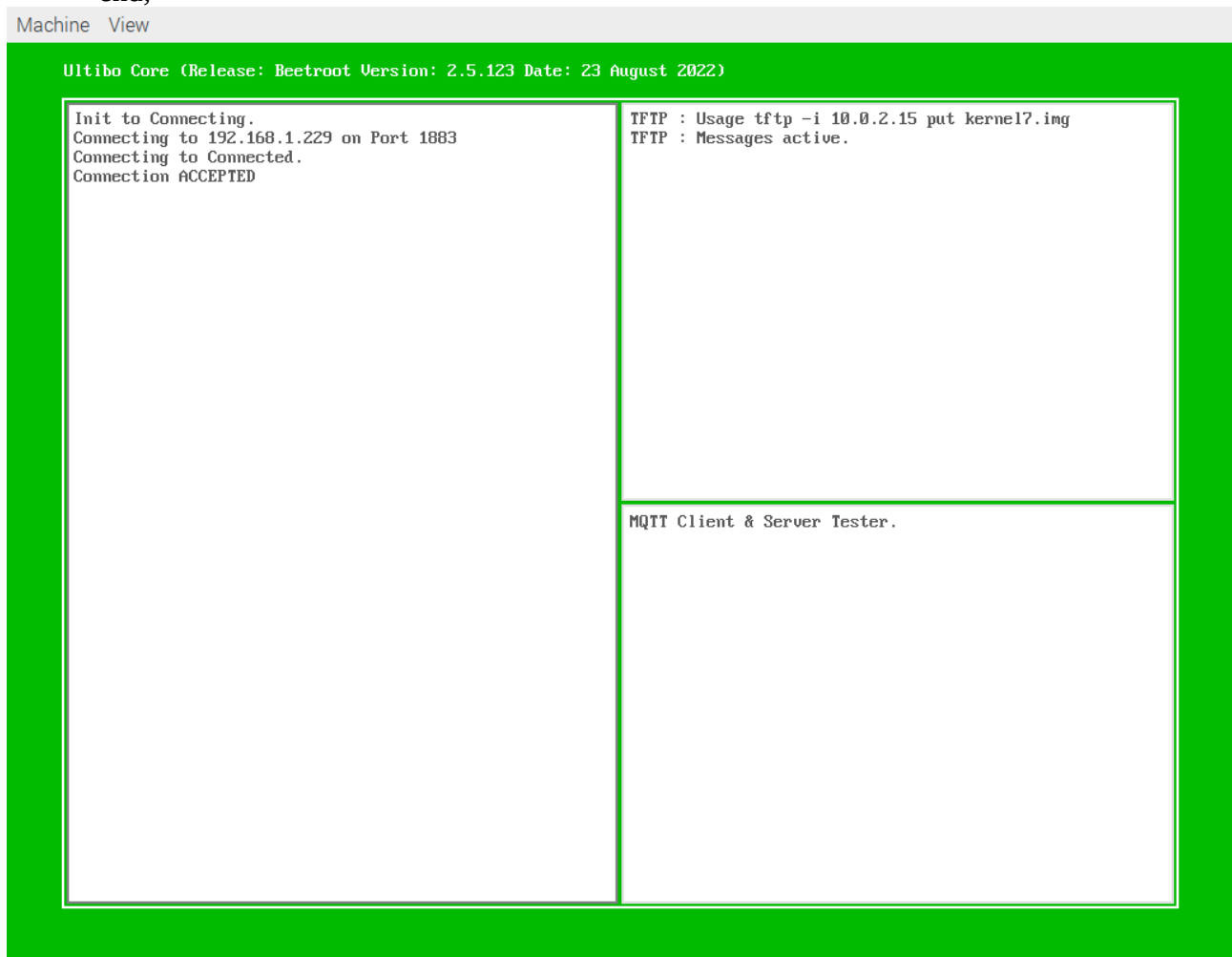
pico_w publisher
ultibo-mqtt
mosquitto broker

12/03/22

*****Default*****

```
mosquitto -c /etc/mosquitto/mosquitto.conf  
./mosquitto.sh This is what starts QEMU  
'7' :
```

```
begin  
MQC.Host := '192.168.1.229';  
MQC.Username := 'testuser';  
MQC.Password := 'password123';  
MQC.LocalBounce := false;  
MQC.Activate (true);  
end;
```



This is a subscriber on a RPi4B

```
File Edit Tabs Help
devel@pi4-27:~$ mosquitto_sub -t 'update/memo' -u 'testuser' -P 'password123'
this is a message from pico_w
this is a message from pico_w
this is a message from pico_w
this is a message from pico_w
this is a message from pico_w
this is a message from pico_w
this is a message from pico_w
this is a message from pico_w
this is a message from pico_w

hello there

hello there
this is a message from pico_w
this is a message from pico_w

```

Testing the pico_w mqtt as a publisher

```
mqtt_request_cb_t pub_mqtt_request_cb_t;
```

```
mqtt_example_init
```

```
char PUB_PAYLOAD[] = "this is a message from pico_w";
printf("%s %d \n",PUB_PAYLOAD,sizeof(PUB_PAYLOAD));
```

```
mqtt_publish(mqtt_client,"update/
memo",PUB_PAYLOAD,sizeof(PUB_PAYLOAD),2,0,pub_mqtt_request_cb_t,"test");
```

```
File Edit Tabs Help
devel@pi4-38:~$ mosquitto_sub -h pi4-27 -p 1883 -t 'update/memo' -u 'testuser'
-P 'password123'
this is a message from pico_w
this is a message from pico_w
msg1

```

The publisher on RPi4B

```
File Edit Tabs Help
devel@pi4-27:~$ mosquitto_pub -t 'update/memo' -u 'testuser' -P 'password123' -
m 'msg1'
devel@pi4-27:~$ mosquitto_pub -t 'update/memo' -u 'testuser' -P 'password123' -
m 'msg1'
devel@pi4-27:~$
```

ultibo receives message from pico_w

Ultibo Core (Release: Beetroot Version: 2.5.123 Date: 23 August 2022)

```
Init to Connecting.  
Connecting to 192.168.1.229 on Port 1883  
Connecting to Connected.  
Connection ACCEPTED  
Message 8 stored and idle.  
REL Message 8 publishing @ EXACTLY_ONCE  
Topic "update/memo" @ EXACTLY_ONCE Retained NO  
REL Message 8 removed from storage.
```

```
TFTP : Usage tftp -i 10.0.2.15 put kernel7.img  
TFTP : Messages active.
```

MQTT Client & Server Tester.

several messages received from multiple publisher.

Ultibo Core (Release: Beetroot Version: 2.5.123 Date: 23 August 2022)

```
Init to Connecting.  
Connecting to 192.168.1.229 on Port 1883  
Connecting to Connected.  
Connection ACCEPTED  
Message 8 stored and idle.  
REL Message 8 publishing @ EXACTLY_ONCE  
Topic "update/memo" @ EXACTLY_ONCE Retained NO  
REL Message 8 removed from storage.  
Message 9 stored and idle.  
REL Message 9 publishing @ EXACTLY_ONCE  
Topic "update/memo" @ EXACTLY_ONCE Retained NO  
REL Message 9 removed from storage.  
Message 10 stored and idle.  
REL Message 10 publishing @ EXACTLY_ONCE  
Topic "update/memo" @ EXACTLY_ONCE Retained NO  
REL Message 10 removed from storage.  
Topic "update/memo" @ AT_MOST_ONCE Retained NO
```

```
TFTP : Usage tftp -i 10.0.2.15 put kernel7.img  
TFTP : Messages active.
```

MQTT Client & Server Tester.