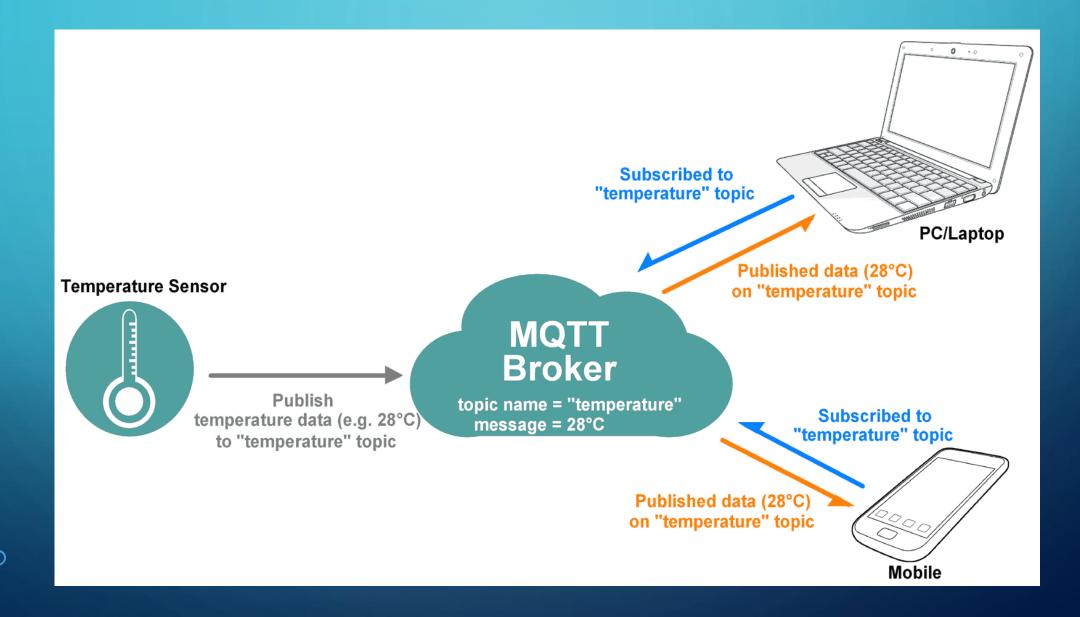
INTERACCIÓN CON DISPOSITIVOS TTN DESDE EL MÓVIL

JUAN FÉLIX MATEOS

MAYO 2021

- MQTT para sacar y meter datos de TTN
- Node-RED para adaptar los datos de TTN, representarlos en un dashboard y enviarlos a Blynk
- Blynk para controlar bidireccionalmente dispositivos TTN desde el móvil
- CallMeBot para recibir notificaciones por Whatsapp desde myloT

MQTT: PUBLICACIÓN Y SUSCRIPCIÓN



MQTT: TOPICS



```
single-level
wildcard

↓

myhome / groundfloor / + / temperature

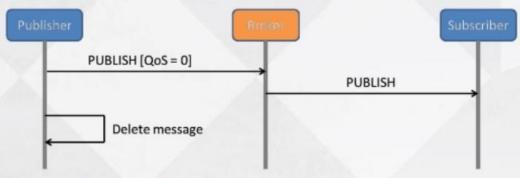
only one level
```

```
multi-level
wildcard

only at the end
multiple topic levels
```

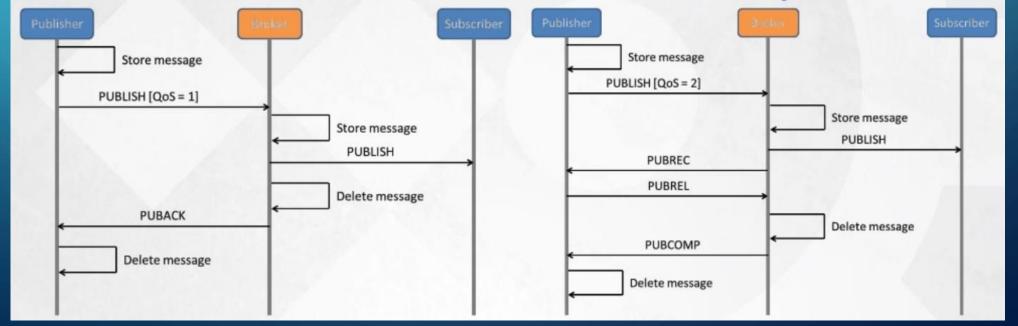
MQTT: QoS

QoS 0: At most once (fire and forget)

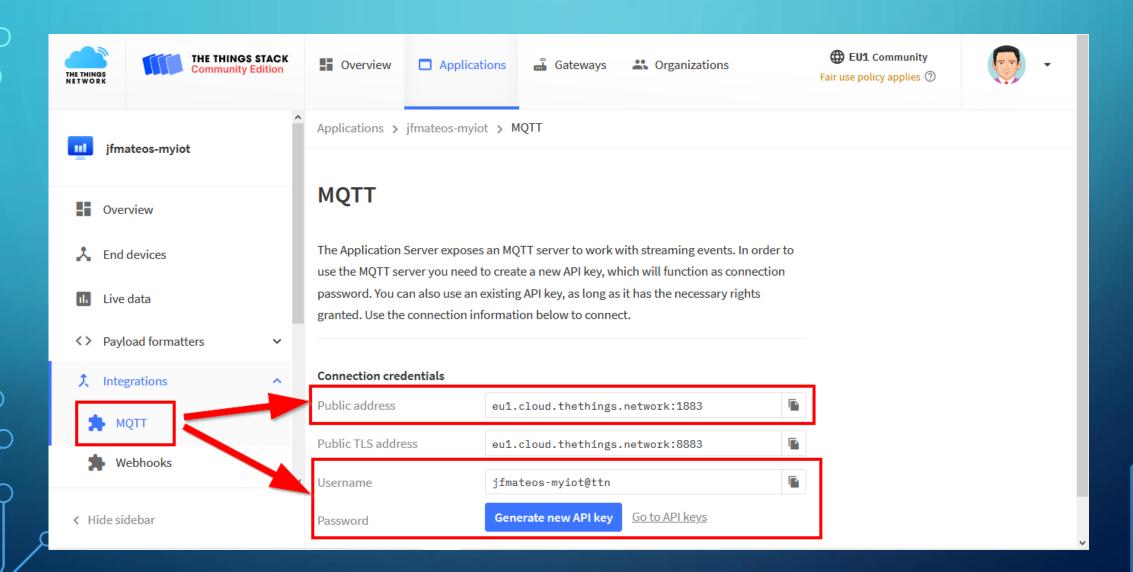


QoS 1: At least once

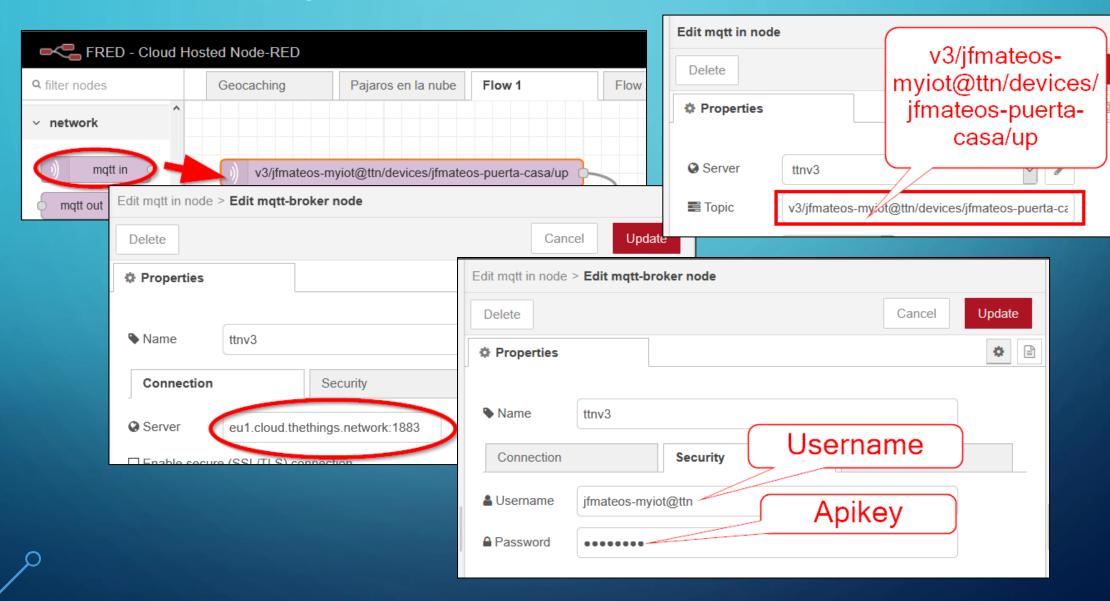
QoS 2 : Exactly once



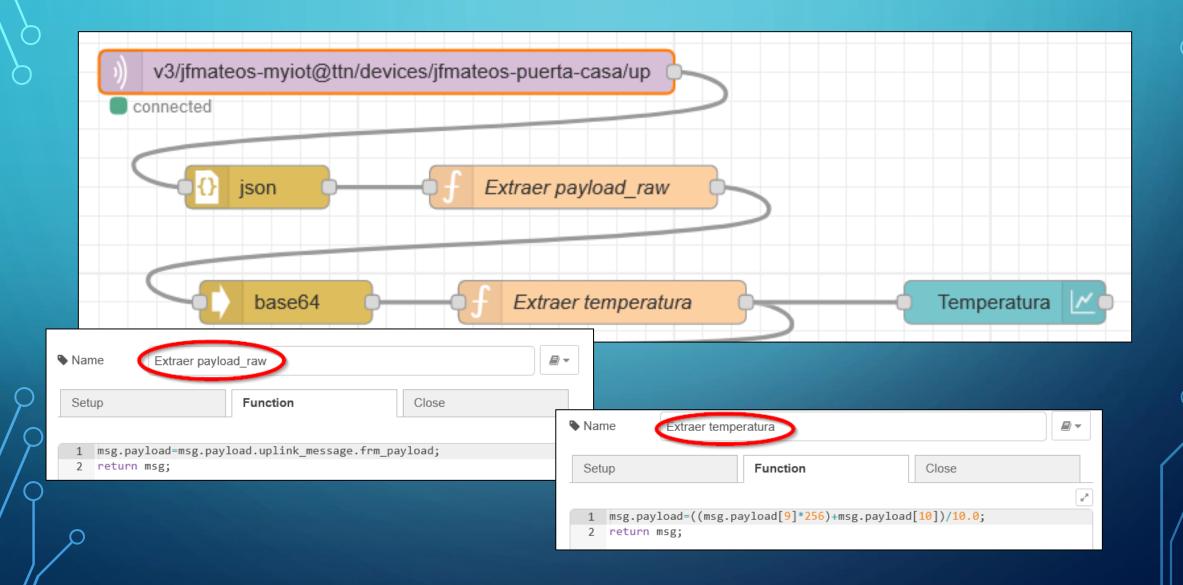
MQTT: TTS Community Edition



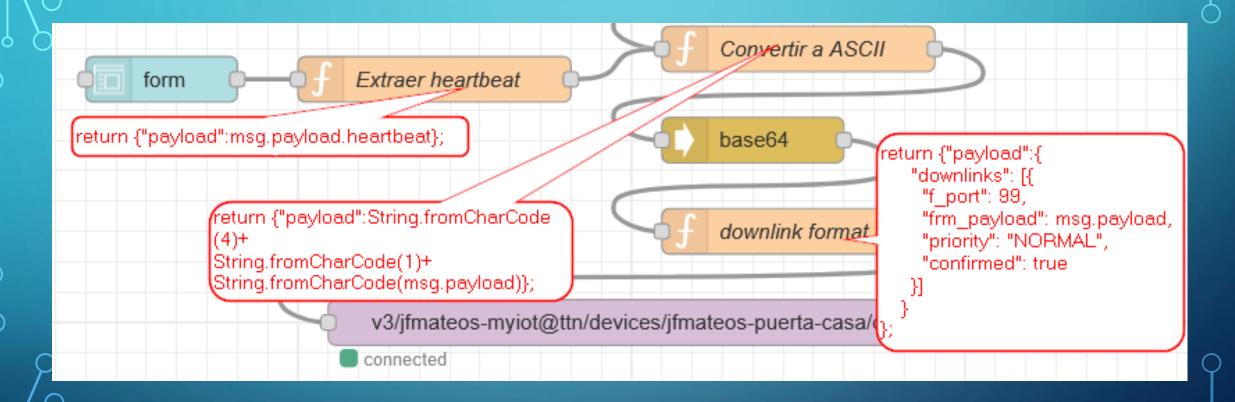
MQTT: Suscripción con Node-RED



Node-RED: Mostrar datos en un dashboard



MQTT: Publicación de downlink con Node-RED

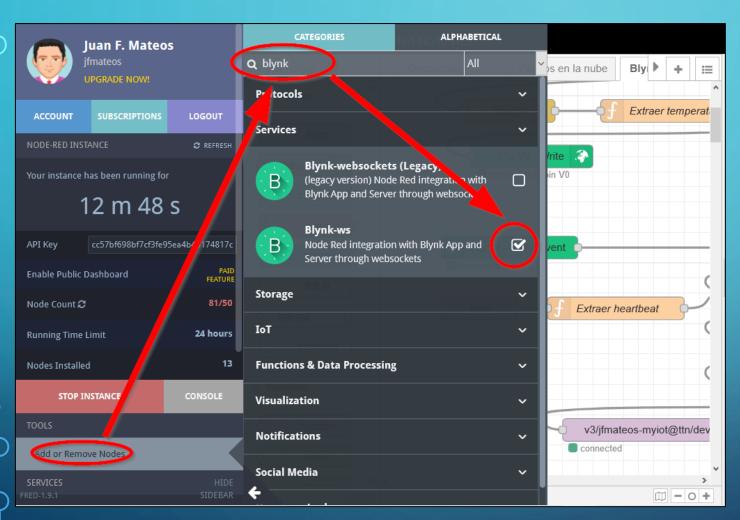


 $\sqrt{3/j}$ fmateos-myiot@ttn/devices/jfmateos-puerta-casa/down/replace

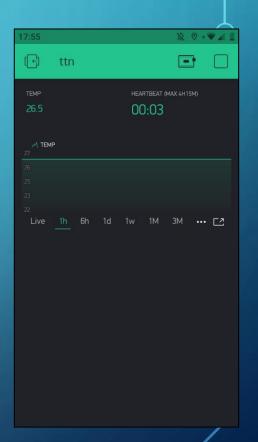
Node-RED: Aspecto final del dashboard



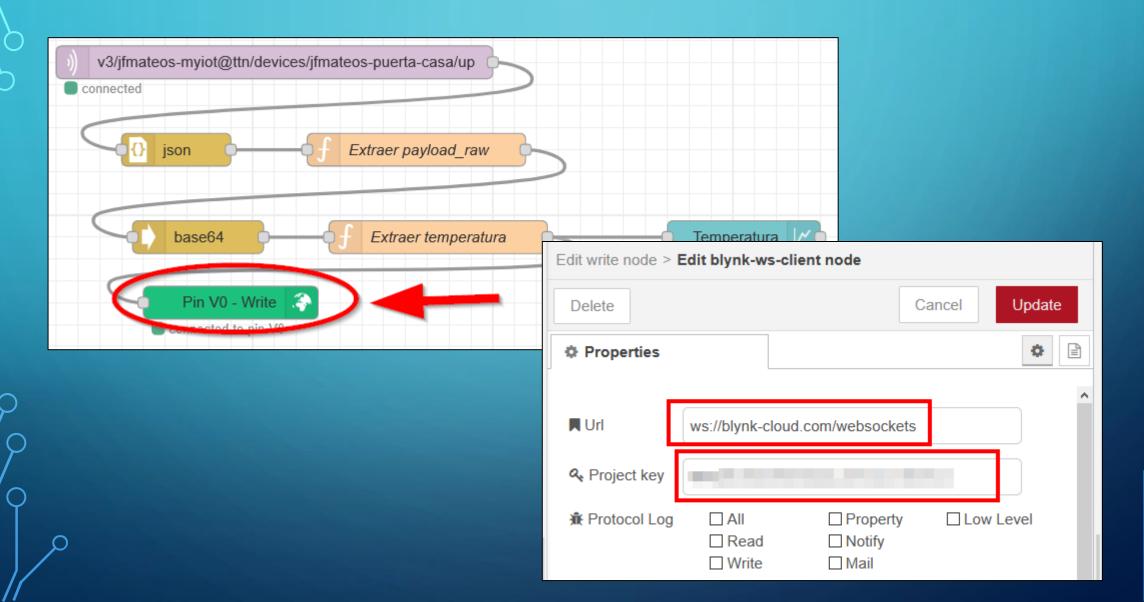
Node-RED & Blynk



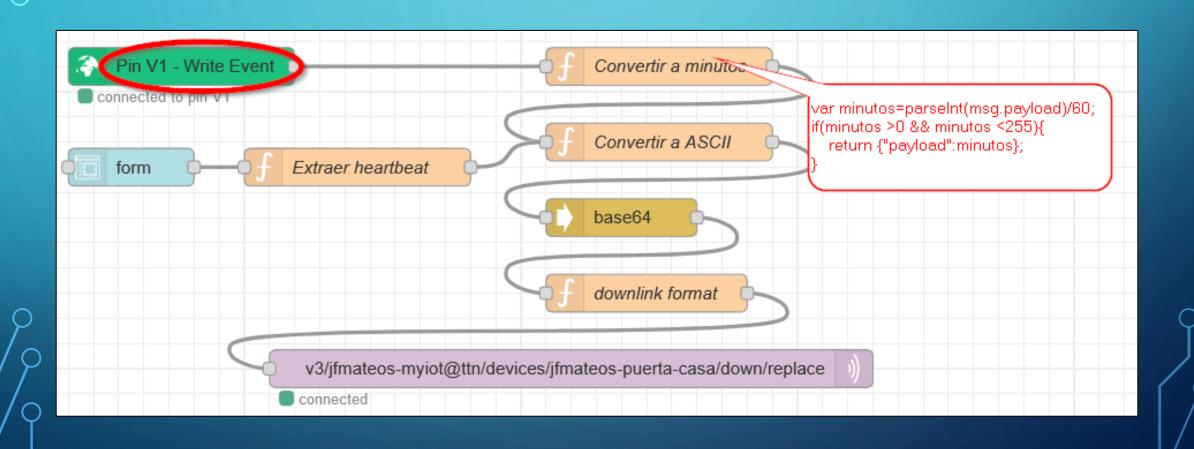




Node-RED & Blynk: Uplinks



Node-RED & Blynk: Downlinks



CallMeBot: Alertas desde Whatsapp



