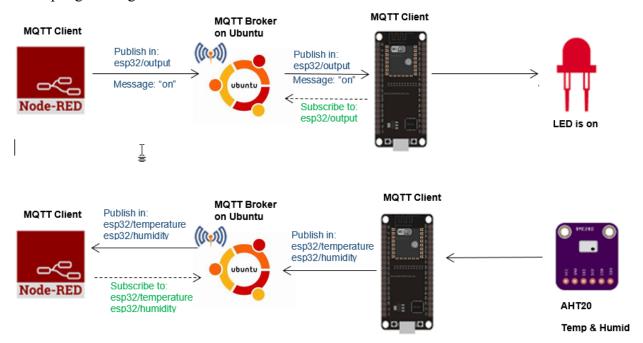
Chancheep Mahacharoensuk 6288092 Kantapong Matangkarat 6288160



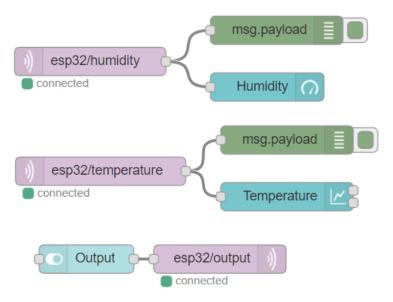
The above figure shows the architecture of this exercise where Ubuntu acts as MQTT broker. Node-RED and AHT20 is used for MQTT clients

ESP32:

AHT20 SDA -> GPIO21 AHT20 SCL -> GPIO22 AHT20 Vcc -> 3.3V AHT20 GND -> GND LED -> GPIO4

- 1. Wire up the above circuit on ESP32.
- 2. Upload "AHT20-LED-Node-RED.ino" to ESP32. Do not forget to specify your Wi-Fi SSID, password and MQTT server IP address.
- 3. Make sure that both your ESP32, Ubuntu, and working laptop are in the same network, e.g., your mobile phone hotspot or your home access point.
- 4. Copy and paste the "AHT20-LED-Node-RED.json" flow to your NodeRED (Import -> Clipboard). Then you should get the following flow.

Note: you have to install Node-RED-dashboard from Palette Manager.



Deploy your flow then capture your finished Node-RED dashboard and put it below.

