MQTT Assignments-IOT4/IOT26+

Create a set of IOT assignments for use in Somsen 301 lab.

PgP 12/12/2023- grew out of work with Zhezhu Wen for RFID/Barcode project.

RPis have GrovePi boards and sensors-and we have Python programs that read sensors, write to text files, shell, maria db, Adafruit cloud.

This will add MQTT to the mix-setup RPi (one or all?)

Assignments –

1. set up RPi as an MQTT broker, publish it’s sensor readings, have other RPis, laptops, even phones subscribe to the feed
2. Use Node-RED and create flow that captures MQTT from one of the Pis using
3. Create Node-RED flow using stack hero node to send data to a RPi/Maria db  
   ref: <https://www.stackhero.io/en/services/Node-RED/documentations/Getting-started/Connect-to-a-MySQL-or-MariaDB-database>