



*Download the PDF for your future use*

*IoT Dashboard on*

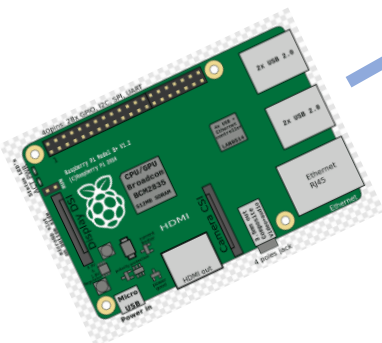


**Visualize the  
MQTT Published data on  
your Smart Phone**

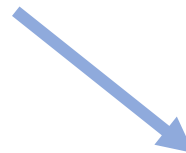
*- Melvin Francis*



*IoT Device - Publisher*



**HIVEMQ**  
MQTT Broker



## *Step - 1*

Complete the below tutorial using the below link  
To get your publisher working

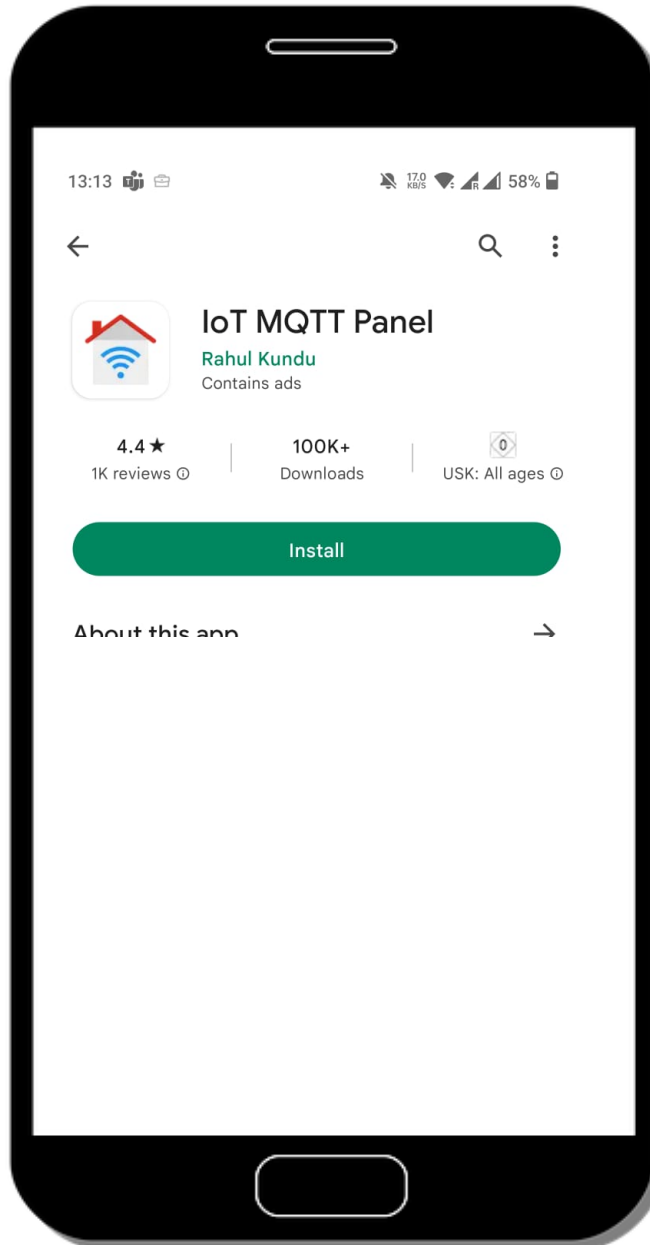


### *Link:*

[https://www.linkedin.com/posts/melvin-francis\\_build-your-own-iot-device-on-raspberrypi-activity-7057405419261943808-dEo4?utm\\_source=share&utm\\_medium=member\\_desktop](https://www.linkedin.com/posts/melvin-francis_build-your-own-iot-device-on-raspberrypi-activity-7057405419261943808-dEo4?utm_source=share&utm_medium=member_desktop)

## Step - 2

Install the **IoT MQTT Panel App** from AppStore

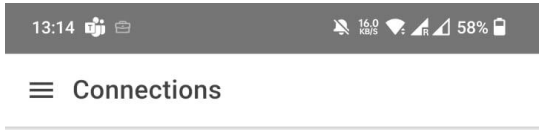


**Link:**

<https://play.google.com/store/apps/details?id=snr.lab.iotmqttpanel.prod>

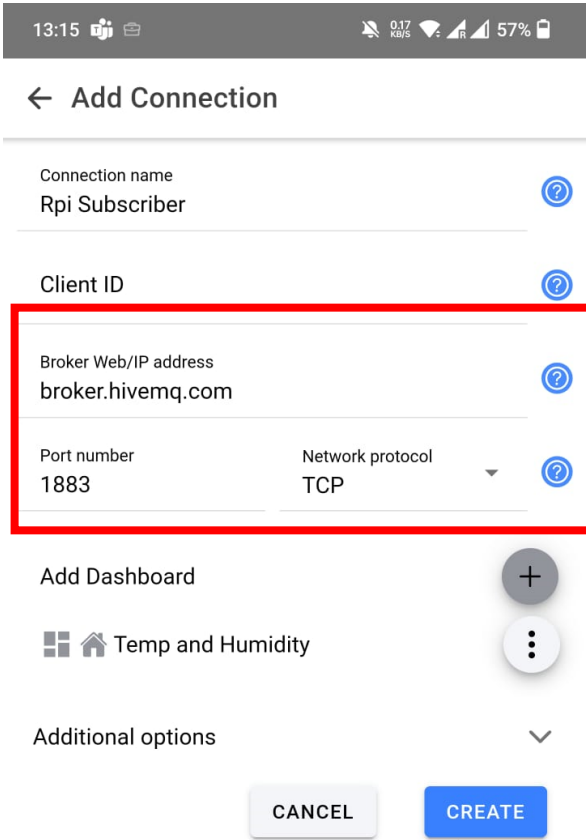
## Step - 3

### Open the App and Configure



You do not have any connection to communicate with MQTT broker. If you are using this application for the first time, we highly recommend to go through FAQ and User Guide from main menu.

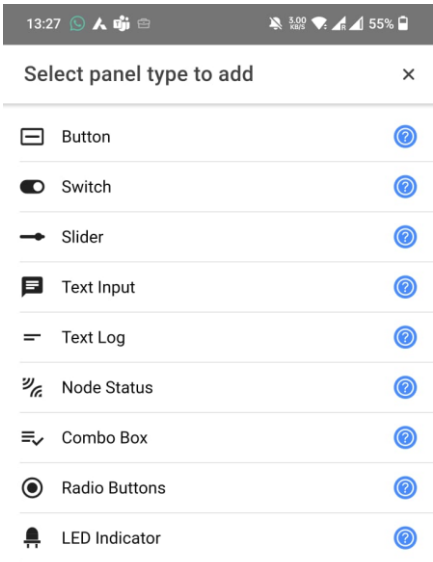
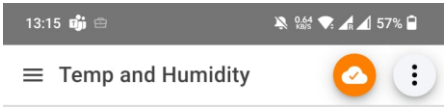
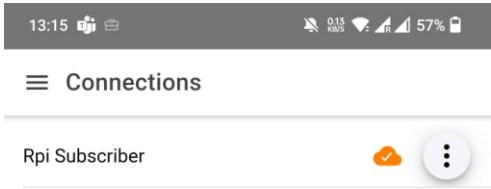
SETUP A CONNECTION



After entering the above details hit create button

# Step - 4

## Configure the dashboard



Current dashboard does not have any panel

ADD PANEL



Click on add Panel

Chose the desired Panel type

# Step - 5

## Configure the panel

13:16

0.05 Kbps

57%

←

Add a Gauge panel

Panel name \*

☐

Disable dashboard prefix topic

Topic \*

melvin/mqttExample/temperature

Payload min \*

0

Payload max \*

500

Unit

Factor

1

Arc color

166.67

333.33

☐

Enable notification

☐

Payload is JSON Data

☐

Show received timestamp

QoS

0

CANCEL

CREATE

Add the topic name to be visualized on the panel

Hit create after customizing your panel and dashboard

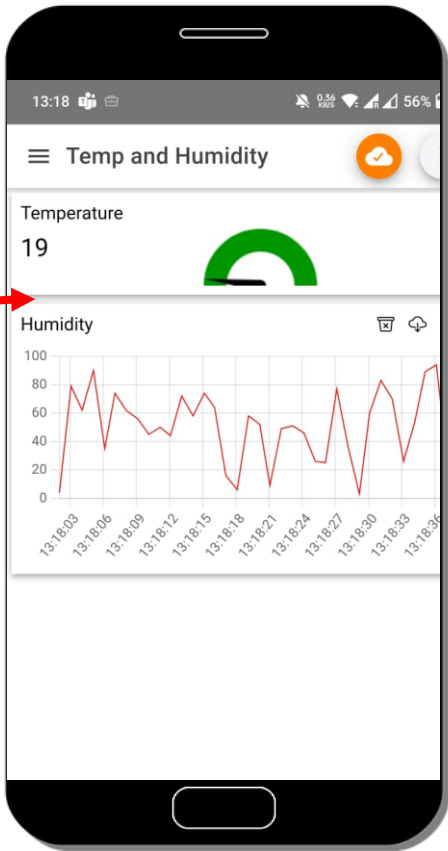
## Step - 5

Start the publisher and view the data on your phone

```
python3 mqtt_publisher.py
```

```
root@ubuntu43ec7:~/mfc/03oct31/melvin-francis/03-objects/business/LinkedIn
Publishing-->melvin/mqttExample/temperature: 26
Publishing-->melvin/mqttExample/humidity: 30
Publishing-->melvin/mqttExample/temperature: 4
Publishing-->melvin/mqttExample/humidity: 82
Publishing-->melvin/mqttExample/temperature: 13
Publishing-->melvin/mqttExample/humidity: 37
Publishing-->melvin/mqttExample/temperature: 93
Publishing-->melvin/mqttExample/humidity: 41
Publishing-->melvin/mqttExample/temperature: 38
Publishing-->melvin/mqttExample/humidity: 25
Publishing-->melvin/mqttExample/temperature: 62
Publishing-->melvin/mqttExample/humidity: 23
Publishing-->melvin/mqttExample/temperature: 73
Publishing-->melvin/mqttExample/humidity: 52
Publishing-->melvin/mqttExample/temperature: 27
Publishing-->melvin/mqttExample/humidity: 49
Publishing-->melvin/mqttExample/temperature: 86
Publishing-->melvin/mqttExample/humidity: 45
Publishing-->melvin/mqttExample/temperature: 66
Publishing-->melvin/mqttExample/humidity: 86
Publishing-->melvin/mqttExample/temperature: 7
```

MQTT Subscriber on Smart Phone App



Temperature on the topic:  
**melvin/mqttExample/temperature**

Humidity on the Topic:  
**melvin/mqttExample/humidity**

Add more publishers and play around in the app to add different panel types and different kinds of visualizations.

Hope you liked the tutorial



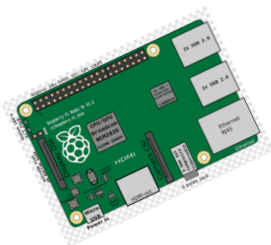
Don't forget to follow me on

<https://www.linkedin.com/in/melvin-francis/>



**HIVEMQ**  
MQTT Broker

*IoT Device - Publisher*



*IoT Dashboard - Subscriber*

