

## Publish Data To The IBM Cloud

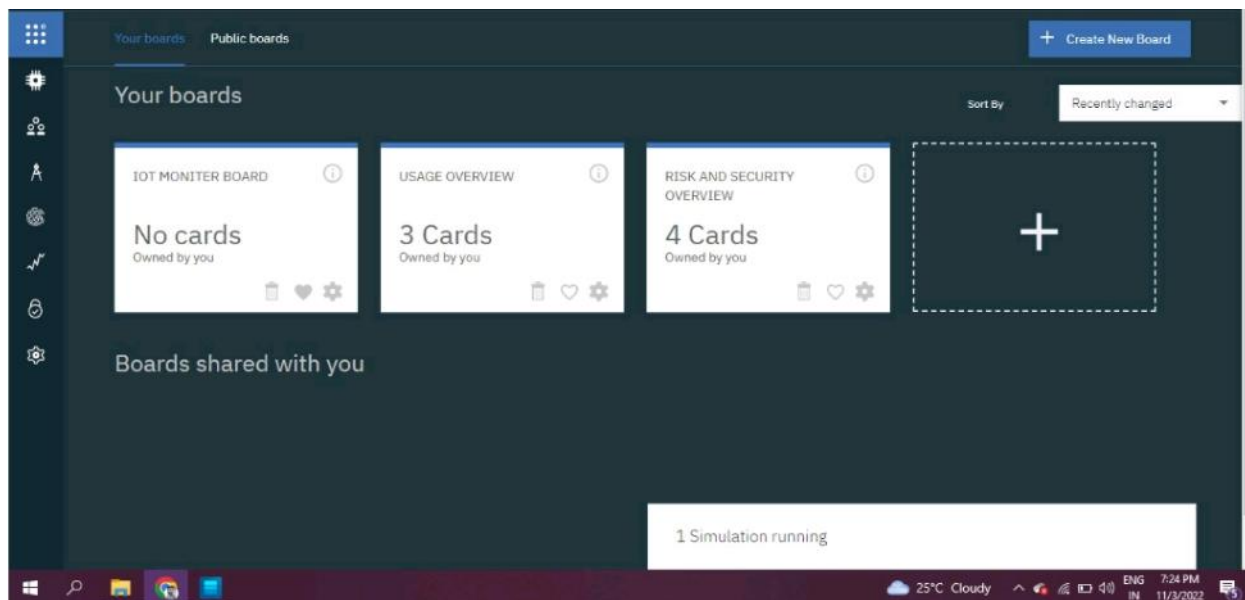
Date	14 November 2022
Team ID	PNT2022TMID38841
Project Name	Project – Signs with Smart Connectivity for Better Road Safety

```
pi@raspberrypi ~  
File Edit Tabs Help  
2017-10-23 06:55:22.. http://ftp.nl.debian.org/debian/pool/main/o/openssl/lib  
lib1.0.0-1-1-deb8u0_armhf.deb  
Resolving ftp.nl.debian.org (ftp.nl.debian.org)... 136.89.149.21, 2601:67c:2504:  
a129::21  
Connecting to ftp.nl.debian.org (ftp.nl.debian.org)[136.89.149.21]:80... connect  
ed  
HTTP request sent, awaiting response... 200 OK  
Length: 867950 (848K) [application/x-debian-package]  
Saving to: 'libssl1.0.0-1.0-1-1-deb8u0_armhf.deb'  
libssl1.0.0-1.0-1-1-100%[=====] 847.61K 358KB/s in 2.4s  
2017-10-23 06:55:25 [358 KB/s] - 'libssl1.0.0-1.0-1-1-deb8u0_armhf.deb' saved [867950/867950]  
pi@raspberrypi ~$ sudo dpkg -i libssl1.0.0-1.0-1-1-deb8u0_armhf.deb  
Selecting previously unselected package libssl1.0.0:armhf.  
(Reading database ... 115606 files and directories currently installed.)  
Preparing to unpack libssl1.0.0-1.0-1-1-deb8u0_armhf.deb ...  
Unpacking libssl1.0.0:armhf (1.0.0-1-1-deb8u0) ...  
Setting up libssl1.0.0:armhf (1.0.0-1-1-deb8u0) ...  
pi@raspberrypi ~$ curl -LO https://github.com/ibm-messaging/iot-raspberrypi/rel  
ease/download/1.2.1/iot_1.0-2_armhf.deb  
% Total % Received % Xferd Average Speed Time Time Current  
Load Upload Total Spent Left Speed  
100 104 0 104 0 0 107 0 --:--:-- 0:00:01 --:--:-- 107  
100 606 0 606 0 0 407 0 --:--:-- 0:00:01 --:--:-- 407  
100 118k 100 118k 0 0 29117 0 0:00:03 0:00:03 --:--:-- 48190  
pi@raspberrypi ~$ sudo dpkg -i iot_1.0-2_armhf.deb  
(Reading database ... 115626 files and directories currently installed.)  
Preparing to unpack iot_1.0-2_armhf.deb ...  
Unpacking iot (1.0-1) over (1.0-1) ...  
Setting up iot (1.0-1) ...  
Processing triggers for systemd (232-25-deb8u1) ...  
pi@raspberrypi ~$ service iot status  
* iot.service - LSB: IoT service  
Loaded: loaded (/etc/init.d/iot; generated; vendor preset: enabled)  
Active: active (running) since Mon 2017-10-23 06:56:25 UTC; 17s ago  
Docs: man:systemd-sysv-generator(8)  
Group: /system.slice/iot.service  
CGroup: /system.slice/iot.service  
└─562 /opt/iot/iot /dev/null  
Oct 23 06:56:24 raspberrypi systemd[1]: Starting LSB: IoT service...  
Oct 23 06:56:24 raspberrypi iot[2561]: Starting the iot program  
Oct 23 06:56:25 raspberrypi iot[2562]: **** IoT Raspberry Pi Sample has started ****  
Oct 23 06:56:25 raspberrypi iot[2562]: Config file not found. Going to Quickstart mode  
Oct 23 06:56:25 raspberrypi iot[2562]: Running in Quickstart mode  
Oct 23 06:56:25 raspberrypi systemd[1]: Started LSB: IoT service.  
Oct 23 06:56:25 raspberrypi iot[2562]: Connecting to tcp://quickstart.messaging.internetofthings.ibmcloud.com:1883 with client Id: d/quickstart:iot-sample-raspberrypi:b8276bdc6734  
Oct 23 06:56:25 raspberrypi iot[2562]: Connection was successful  
pi@raspberrypi ~$ scot  
bash: scot: command not found  
pi@raspberrypi ~$
```

```
pi@raspberrypi ~  
File Edit Tabs Help  
pi@raspberrypi ~$ pip install ibmiotf  
Collecting ibmiotf  
  Downloading ibmiotf-0.3.0.tar.gz (504B)  
    100% |#####| 61KB 510KB/s  
Collecting dicttoolml<1.7.4 (from ibmiotf)  
  Downloading dicttoolml-1.7.4.tar.gz  
Collecting iso8601<0.1.10 (from ibmiotf)  
  Downloading iso8601-0.1.12-py2.py3-none-any.whl  
Collecting paho-mqtt<1.2 (from ibmiotf)  
  Downloading paho-mqtt-1.3.1.tar.gz (56B)  
    100% |#####| 81KB 916KB/s  
Collecting pytz<2014.7 (from ibmiotf)  
  Using cached pytz-2017.2-py2.py3-none-any.whl  
Collecting requests<2.5.0 (from ibmiotf)  
  Downloading requests-2.18.4-py2.py3-none-any.whl (88KB)  
    100% |#####| 92KB 1.6MB/s  
Collecting requests-toolbelt<0.7.0 (from ibmiotf)  
  Downloading requests-toolbelt-0.8.0-py2.py3-none-any.whl (54KB)  
    100% |#####| 61KB 1.6MB/s  
Collecting xmltodict<0.10.2 (from ibmiotf)  
  Downloading xmltodict-0.11.0-py2.py3-none-any.whl  
Collecting urllib3<1.23,>1.21.1 (from requests<2.5.0->ibmiotf)  
  Downloading urllib3-1.22-py2.py3-none-any.whl (133KB)  
    100% |#####| 133KB 1.4MB/s  
Collecting idna<2.7,>=2.5 (from requests<2.5.0->ibmiotf)  
  Downloading idna-2.6-py2.py3-none-any.whl (56KB)  
    100% |#####| 61KB 1.7MB/s  
Collecting chardet<3.1.0,>=3.0.2 (from requests<2.5.0->ibmiotf)  
  Downloading chardet-3.0.4-py2.py3-none-any.whl (133KB)  
    100% |#####| 143KB 1.0MB/s  
Collecting certifi<2017.4.17 (from requests<2.5.0->ibmiotf)  
  Using cached certifi-2017.7.27.1-py2.py3-none-any.whl  
Building wheels for collected packages: ibmiotf, dicttoolml, paho-mqtt  
Running setup.py bdist_wheel for ibmiotf ... done  
Stored in directory: /home/pi/.cache/pip/wheels/7e/f9/45/bbc33ad957e82f7b71ba80e316d05a83d9d735a8d12e0c0418  
Running setup.py bdist_wheel for dicttoolml ... done  
Stored in directory: /home/pi/.cache/pip/wheels/45/62/50/96918b33ec6a7b2ae66a13765401b5b0def5468024078e12cce  
Running setup.py bdist_wheel for paho-mqtt ... done  
Stored in directory: /home/pi/.cache/pip/wheels/20/d8/0d/adc8f289011b7be7de71deebf0642fb83be0313dfff0493  
Successfully built ibmiotf dicttoolml paho-mqtt  
Installing collected packages: dicttoolml, iso8601, paho-mqtt, pytz, urllib3, idna, chardet, certifi, requests, requests-toolbelt, xmltodict, ibmiotf  
Successfully installed certifi-2017.7.27.1 chardet-3.0.4 dicttoolml-1.7.4 ibmiotf-0.3.0 idna-2.6 iso8601-0.1.12 paho-mqtt-1.3.1 pytz-2017.2 requests-2.18.4 requests-toolbelt-0.8.0 urllib3-1.22 xmltodict-0.11.0  
pi@raspberrypi ~$
```



```
Python 2.7.13 Shell
Python 2.7.13 (default, Jan 19 2017, 14:48:08)
[GCC 6.3.0 20170124] on linux2
Type "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: /home/pi/Downloads/dht11toibmiot.py =====
2017-10-23 07:10:37,768 ibmiotf.device.Client INFO Connected successfully: d:gegt14;mydevice:mydevice
Published Temperature = 28 C Humidity = 50 % to IBM Watson
SensorData Invalid
Published Temperature = 28 C Humidity = 50 % to IBM Watson
SensorData Invalid
Published Temperature = 28 C Humidity = 50 % to IBM Watson
Published Temperature = 29 C Humidity = 50 % to IBM Watson
Published Temperature = 29 C Humidity = 50 % to IBM Watson
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Create resource

For you

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20 min

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11/2/2022

