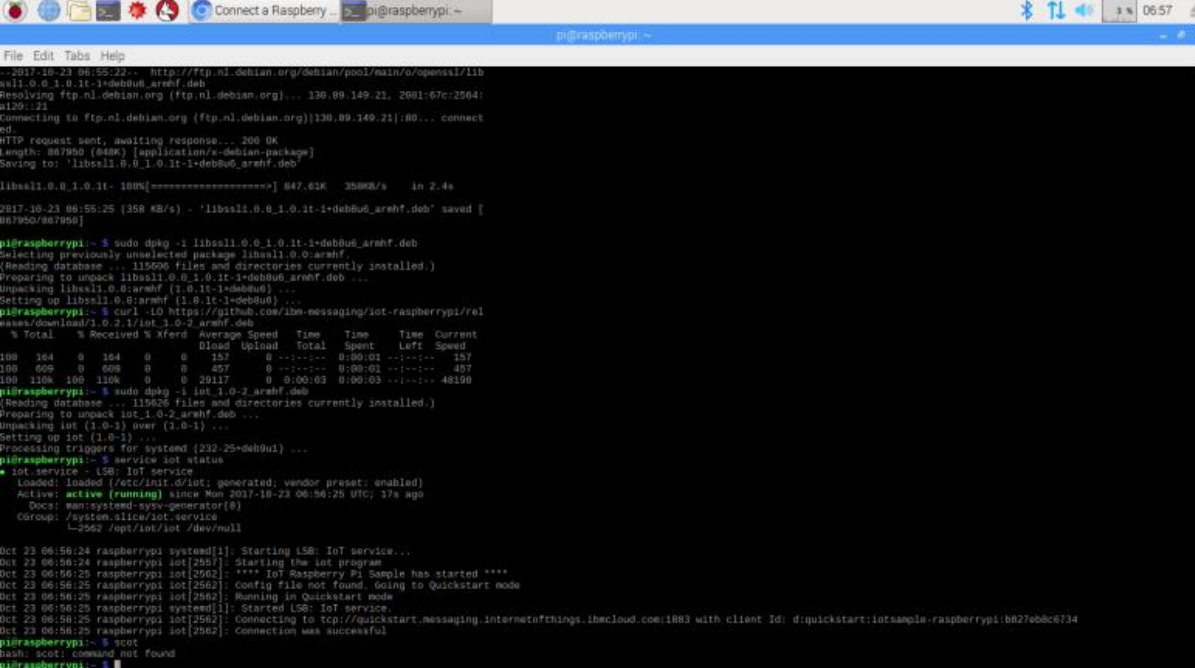
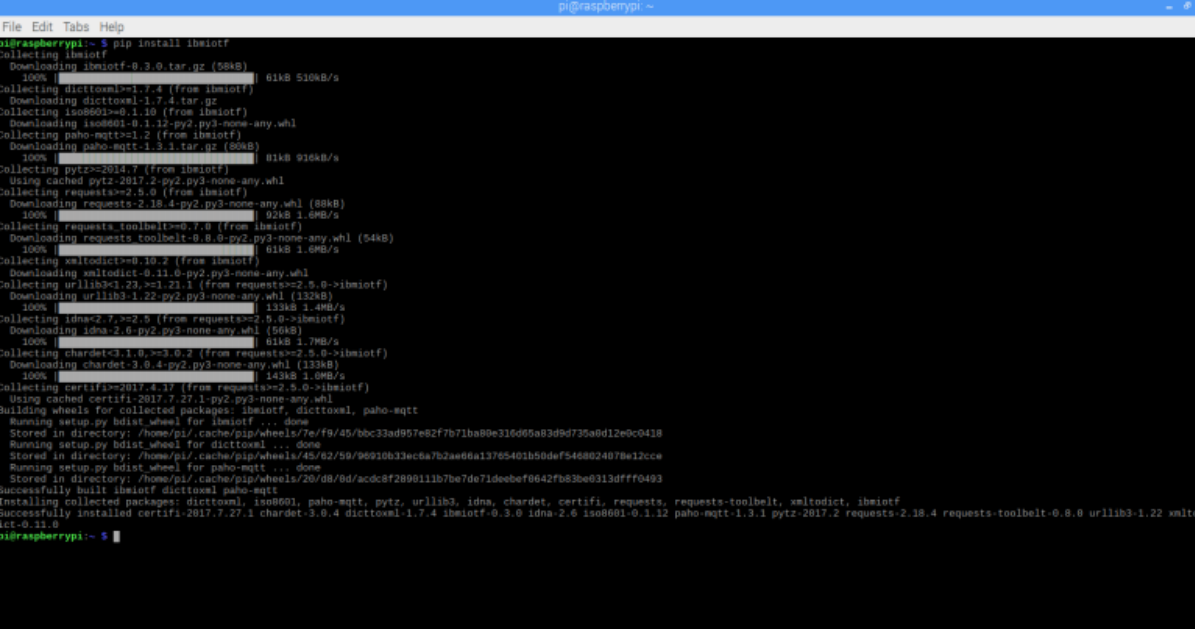


## Publish Data To The IBM Cloud

Date	18 <sup>th</sup> November 2022
Team ID	PNT2022TMID25696
Project Name	Project – Signs with Smart Connectivity for Better Road Safety



```
pi@raspberrypi: ~  
File Edit Tabs Help  
$ curl -L -o https://github.com/ibm-messaging/iot-raspberrypi/releases/download/1.0.2.1/iot_1.0.2.1-armhf.deb  
% Total % Received % Xferd Average Speed Time Time Time Current  
100 364 0 364 0 0 187 0 --:--: 0:00:01 --:--: 187  
100 606 0 606 0 0 457 0 --:--: 0:00:01 --:--: 457  
100 110K 100 110K 0 0 2017 0 0:00:03 0:00:03 --:--: 48198  
$ sudo dpkg -i iot_1.0.2.1-armhf.deb  
(Reading database ... 115600 files and directories currently installed.)  
Preparing to unpack iot_1.0.2.1-armhf.deb ...  
Unpacking iot (1.0-1) over (1.0-1) ...  
Setting up iot (1.0-1) ...  
Processing triggers for systemd (232-25-deb1) ...  
$ service iot status  
● iot.service - IBM 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)  
CGroup: /system.slice/iot.service  
└─2562 /opt/iot/iot /dev/null  
Oct 23 06:56:24 raspberrypi systemd[1]: Starting LSB: IoT service...  
Oct 23 06:56:24 raspberrypi iot[2562]: 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: dquickstart:iot-sample-raspberrypi:b027ebdc6734  
Oct 23 06:56:25 raspberrypi iot[2562]: Connection was successful  
$  
$ service iot status  
$
```



```
pi@raspberrypi: ~  
File Edit Tabs Help  
$ pip install ibmiotf  
Collecting ibmiotf  
  Downloading ibmiotf-0.3.0.tar.gz (58kB)  
    100% |#####| 61kB 510kB/s  
Collecting dicttoxml==1.7.4 (from ibmiotf)  
  Downloading dicttoxml-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 (52kB)  
    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 smtplib==0.10.2 (from ibmiotf)  
  Downloading smtplib-0.11.0-py2.py3-none-any.whl  
Collecting urllib3<3.2.3,=>3.2.1 (from requests==2.5.0->ibmiotf)  
  Downloading urllib3-1.22-py2.py3-none-any.whl (132kB)  
    100% |#####| 13kB 1.4MB/s  
Collecting idna==2.7.2 (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% |#####| 14kB 1.6MB/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, dicttoxml, paho-mqtt  
Running setup.py bdist_wheel for ibmiotf ... done  
Stored in directory: /home/pi/.cache/pip/wheels/7e/f9/45/bbc33ad957e82f7b71ba80e316d95a83d9d735a0d12ebc0418  
Running setup.py bdist_wheel for dicttoxml ... done  
Stored in directory: /home/pi/.cache/pip/wheels/45/62/59/06910b33ec6a7b2a66a13765401b50d6f5468024078a12cc  
Running setup.py bdist_wheel for paho-mqtt ... done  
Stored in directory: /home/pi/.cache/pip/wheels/2b/08/bd/acdc8f289011b7be7de71deebef8642f83be0313dfff0493  
Successfully built ibmiotf dicttoxml paho-mqtt  
Installing collected packages: dicttoxml, iso8601, paho-mqtt, pytz, urllib3, idna, chardet, certifi, requests, requests-toolbelt, smtplib, ibmiotf  
Successfully installed certifi-2017.7.27.1 chardet-3.0.4 dicttoxml-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 smtplib-0.11.0  
$
```

```
Python 2.7.13 Shell
File Edit Shell Debug Options Window Help
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 07:18:37,768 ibmiotf.device.Client INFO Connected successfully: d:gegtl4: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 = 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
|
Ln: 8 Col: 0
```