

## Publish Data To The IBM Cloud

Date	19 <sup>th</sup> November 2022
Team ID	PNT2022TMID42162
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  
ssl1.0.0-1.0-1-1-debdeb0_armhf.deb  
Resolving ftp.nl.debian.org [ftp.nl.debian.org]... 130.89.149.21, 2001:67c:2504:  
129::21  
Connecting to ftp.nl.debian.org [ftp.nl.debian.org]130.89.149.21:80... connect  
ed.  
HTTP request sent, awaiting response... 200 OK  
Length: 87950 (84K) [application/x-debian-package]  
Saving to: 'libssl1.0.0-1.0-1-1-debdeb0_armhf.deb'  
libssl1.0.0-1.0-1-1-100%[=====] 847.63K 358KB/s in 2.4s  
2017-10-23 06:55:25 (358 KB/s) - 'libssl1.0.0-1.0-1-1-debdeb0_armhf.deb' saved [ 87950/87950]  
pi@raspberrypi ~$ sudo dpkg -i libssl1.0.0-1.0-1-1-debdeb0_armhf.deb  
Selecting previously unselected package libssl1.0.0-armhf.  
(Reading database ... 115600 files and directories currently installed.)  
Preparing to unpack libssl1.0.0-1.0-1-1-debdeb0_armhf.deb ...  
Unpacking libssl1.0.0-armhf (1.0.1f-1-debdeb0) ...  
Setting up libssl1.0.0-armhf (1.0.1f-1-debdeb0) ...  
pi@raspberrypi ~$ curl -LO https://github.com/IBM-messaging/iot-raspberrypi-rel  
eases/download/1.0.2.1/iot-1.0-2-armhf.deb  
% Total % Received % Xferd Average Speed Time Time Time Current  
0 0 0 0 0 0 0 0 0:00:00 0:00:00 0:00:00 0  
100 164 0 164 0 0 157 0 0:00:01 0:00:01 0:00:01 157  
100 606 0 606 0 0 457 0 0:00:01 0:00:01 0:00:01 457  
100 118 100 118 0 0 2917 0 0:00:03 0:00:03 0:00:03 48198  
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-debdeb1) ...  
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  
Process: MainPID=10000 (systemd-sys-generator(8))  
CGroup: /system.slice/iot.service  
└─2562 /opt/iot/iot /devnull  
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-raspberrypi1b027e0dc6734  
Oct 23 06:56:25 raspberrypi iot[2562]: Connection was successful  
pi@raspberrypi ~$ sscot  
ssh: sscot: command not found  
pi@raspberrypi ~$
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pi@raspberrypi ~  
File Edit Tabs Help  
pi@raspberrypi ~$ pip install ibmiotf  
Collecting ibmiotf  
  Downloading ibmiotf-0.3.0.tar.gz (50kB)  
    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 iso8601-0.1.10-py2.py3-none-any.whl  
Collecting paho-mqtt==1.2 (from ibmiotf)  
  Downloading paho-mqtt-1.2.1.tar.gz (80kB)  
    100% |#####| 61kB 516kB/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-2.10.4-py2.py3-none-any.whl (89kB)  
    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==2.2.1 (from requests==2.5.0->ibmiotf)  
  Downloading urllib3-1.22-py2.py3-none-any.whl (132kB)  
    100% |#####| 132kB 1.4MB/s  
Collecting idna==2.7.0 (from requests==2.5.0->ibmiotf)  
  Downloading idna-2.0.4-py2.py3-none-any.whl (58kB)  
    100% |#####| 61kB 1.7MB/s  
Collecting charset3==3.1.0, <3.0.2 (from requests==2.5.0->ibmiotf)  
  Downloading charset3-3.0.4-py2.py3-none-any.whl (132kB)  
    100% |#####| 143kB 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/b0c33ad957e62f7b71ba80e316d05e03d9d735a0d1260c0418  
Running setup.py bdist_wheel for dicttoxml ... done  
Stored in directory: /home/pi/.cache/pip/wheels/45/62/59/90920b33ec6a7b2a68a13765401b0bdf5468024078e12c0e  
Running setup.py bdist_wheel for paho-mqtt ... done  
Stored in directory: /home/pi/.cache/pip/wheels/20/08/0d/acdc8f200011b76e7de71deebf6642fb83e0313dfff0493  
Successfully built ibmiotf dicttoxml paho-mqtt  
Installing collected packages: dicttoxml, iso8601, paho-mqtt, pytz, urllib3, idna, charset, certifi, requests, requests-toolbelt, xmltodict, ibmiotf  
Successfully installed certifi-2017.7.27.1 charset-3.0.4 dicttoxml-1.7.4 ibmiotf-0.3.0 idna-2.0 iso8601-0.1.10 paho-mqtt-1.2.1 pytz-2017.2 requests-2.10.4 requests-toolbelt-0.8.0 urllib3-1.22 xmlto  
dict-0.11.0  
pi@raspberrypi ~$
```

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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 07:18:37,758 ibmiot.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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