

## Publish Data To The IBM Cloud

Date	08 November 2022
Team ID	PNT2022TMID17377
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  
lib1.0.0-1.0-1-1-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 35880K/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/1.0.2/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 0 157 0 --:-- 0:00:01 --:-- 157  
100 606 0 606 0 0 457 0 --:-- 0:00:01 --:-- 457  
100 110k 100 110k 0 0 29117 0 0:00:03 0:00:03 --:-- 48150  
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  
L=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: d1quickstart:iot-sample-raspberrypi1b827ebbc6734  
Oct 23 06:56:25 raspberrypi iot[2562]: Connection was successful  
pi@raspberrypi ~$ sscot  
bash: sscot: 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 (504kB)  
    100% |#####| 61kB 510kB/s  
Collecting dicttool==1.7.4 (from ibmiotf)  
  Downloading dicttool-1.7.4.tar.gz  
Collecting iso8601==1.1.0 (from ibmiotf)  
  Downloading iso8601-1.1.0-py2.py3-none-any.whl  
Collecting paho-mqtt==1.2 (from ibmiotf)  
  Downloading paho-mqtt-1.2.1.tar.gz (504kB)  
    100% |#####| 61kB 516kB/s  
Collecting pytz==2014.7 (from ibmiotf)  
  Using cached pytz-2017.2-py2.py3-none-any.whl  
Collecting requests==2.5.5 (from ibmiotf)  
  Downloading requests-2.18.4-py2.py3-none-any.whl (88kB)  
    100% |#####| 62kB 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==0.11.0 (from ibmiotf)  
  Downloading xmltodict-0.11.0-py2.py3-none-any.whl  
Collecting urllib3<1.23, >=1.21.1 (from requests==2.5.5->ibmiotf)  
  Downloading urllib3-1.22-py2.py3-none-any.whl (113kB)  
    100% |#####| 13kB 1.4MB/s  
Collecting idna<2.7, >=2.5 (from requests==2.5.5->ibmiotf)  
  Downloading idna-2.6-py2.py3-none-any.whl (56kB)  
    100% |#####| 61kB 2.7MB/s  
Collecting charset3.1.0, >=3.0.2 (from requests==2.5.5->ibmiotf)  
  Downloading charset3.1.0-py2.py3-none-any.whl (133kB)  
    100% |#####| 14kB 1.6MB/s  
Collecting certifi==2017.4.17 (from requests==2.5.5->ibmiotf)  
  Using cached certifi-2017.7.27.1-py2.py3-none-any.whl  
Building wheels for collected packages: ibmiotf, dicttool, paho-mqtt  
Running setup.py bdist_wheel for ibmiotf ... done  
Stored in directory: /home/pi/.cache/pip/wheels/7e/f9/45/bc33ad957e82f7b71ba0e316d0e83d9d739a0d12e0c0418  
Running setup.py bdist_wheel for dicttool ... done  
Stored in directory: /home/pi/.cache/pip/wheels/45/42/56/9020b33ec5a7b4e0e313765401b8b0ef5468d24078e12cc0  
Running setup.py bdist_wheel for paho-mqtt ... done  
Stored in directory: /home/pi/.cache/pip/wheels/20/08/8d/acc08f289011b7b7de71d5ebef0642f583be83130ff7f9493  
Successfully built ibmiotf dicttool paho-mqtt  
Installing collected packages: dicttool, iso8601, paho-mqtt, pytz, urllib3, idna, charset, certifi, requests, requests-toolbelt, xmltodict, ibmiotf  
Successfully installed certifi-2017.7.27.1 charset-3.0.4 dicttool-1.7.4 ibmiotf-0.3.0 idna-2.6 iso8601-1.1.2 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
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 = 90 % 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 = 90 % to IBM Watson
|
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