

Publish Data To The IBM Cloud

Date	16 th November 2022
Team ID	PNT2022TMID47020
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/libssl1.0.0-1.0.1-1-debdeb_armhf.deb  
Resolving ftp.nl.debian.org (ftp.nl.debian.org)... 136.89.149.21, 2081:67c2:2064:1120::23  
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: 887950 (864K) [application/x-debian-package]  
Saving to: 'libssl1.0.0-1.0.1-1-debdeb_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-debdeb_armhf.deb' saved [867950/867950]  
pi@raspberrypi:~$ sudo dpkg -i libssl1.0.0-1.0.1-1-debdeb_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-debdeb_armhf.deb ...  
Unpacking libssl1.0.0-armhf (1.0.1-1-debdeb) ...  
Setting up libssl1.0.0-armhf (1.0.1-1-debdeb) ...  
pi@raspberrypi:~$ curl -LO https://github.com/ibm-messaging/iot-raspberrypi/releases/download/1.0.2.1/iot-1.0-2_armhf.deb  
% Total % Received % Xferd Average Speed Time Time Time Current  
100 364 0 364 0 0 157 0 --:--:-- 0:00:01 --:--:-- 157  
100 662 0 662 0 0 457 0 --:--:-- 0:00:01 --:--:-- 457  
100 120k 100 120k 0 0 29117 0 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-deb9ul) ...  
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; 37s 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: d:quickstart:lotsample-raspberrypi:b827ebbc6734  
Oct 23 06:56:25 raspberrypi iot[2562]: Connection was successful  
pi@raspberrypi:~$ sscot  
sscot: 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 (584B)  
    100% |#####| 81kB 510kB/s  
Collecting dictioxml==1.7.4 (from ibmiotf)  
  Downloading dictioxml-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-1.3.1.tar.gz (83kB)  
    100% |#####| 81kB 514kB/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% |#####| 82kB 1.6MB/s  
Collecting requests-toolbelt==0.7.0 (from ibmiotf)  
  Downloading requests-toolbelt-0.8.0-py2.py3-none-any.whl (54kB)  
    100% |#####| 81kB 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 (132kB)  
    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% |#####| 81kB 1.7MB/s  
Collecting charset3.1.0, >=3.0.2 (from requests==2.5.0->ibmiotf)  
  Downloading charset-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, dictioxml, paho-mqtt  
Running setup.py bdist_wheel for ibmiotf ... done  
Stored in directory: /home/pi/.cache/pip/wheels/45/62/59/96910b33ec6a7b2ae66e137e5401b5b8df5468024078e12c0e  
Running setup.py bdist_wheel for dictioxml ... done  
Stored in directory: /home/pi/.cache/pip/wheels/20/08/8d/acc8f289811b7de7d71deebf0642fb83be313dfff9493  
Running setup.py bdist_wheel for paho-mqtt ... done  
Successfully built ibmiotf dictioxml paho-mqtt  
Installing collected packages: dictioxml, iso8601, paho-mqtt, pytz, urllib3, idna, charset, certifi, requests, requests-toolbelt, xmltodict, ibmiotf  
Successfully installed certifi-2017.7.27.1 charset-3.0.4 dictioxml-1.7.4 ibmiotf-0.3.0 idna-2.6 iso8601-0.1.10 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:~$
```

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 07:18:37.788 ibmiotf.device.Client INFO Connected successfully; d:gegit14;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

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