

Publish Data To The IBM Cloud

Date	15 th November 2022
Team ID	PNT2022TMID44776
Project Name	Signs with Smart Connectivity for Better Road Safety

```
pi@raspberrypi:~$  
File Edit Tabs Help  
2017-10-23 06:56:22 -- http://ftp.nl.debian.org/debian/pool/main/o/openssl/lib  
ssl1.0.0-1.0.1t-1+deb8u6_armhf.deb  
Resolving ftp.nl.debian.org (ftp.nl.debian.org)... 130.89.149.21. 2001:67c:2b64:  
a120::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: 847960 (844K) [application/x-debian-package]  
Saving to: 'libssl1.0.0-1.0.1t-1+deb8u6_armhf.deb'  
  
libssl1.0.0-1.0.1t- 100%[=====] 847.61K 358KB/s in 2.4s  
2017-10-23 06:56:25 [358 KB/s] - 'libssl1.0.0-1.0.1t-1+deb8u6_armhf.deb' saved [ 847960/847960]  
  
pi@raspberrypi:~$ sudo dpkg -i libssl1.0.0-1.0.1t-1+deb8u6_armhf.deb  
Selecting previously unselected package libssl1.0.0:armhf.  
(Reading database ... 115606 files and directories currently installed.)  
Preparing to unpack libssl1.0.0-1.0.1t-1+deb8u6_armhf.deb ...  
Unpacking libssl1.0.0:armhf (1.0.1t-1+deb8u6) ...  
Setting up libssl1.0.0:armhf (1.0.1t-1+deb8u6) ...  
pi@raspberrypi:~$ curl -LO https://github.com/ibm-messaging/iot-raspberrypi/rel  
ease/downloads/1.0.2/iot-1.0-2_armhf.deb  
% Total % Received % Xferd Average Speed Time Time Time Current  
Dload Upload Total Spent Left Speed  
100 164 0 164 0 0 157 0 --:--:-- 0:00:01 --:--:-- 157  
100 408 0 408 0 0 427 0 --:--:-- 0:00:01 --:--:-- 427  
100 110k 100 110k 0 0 29117 0 0:00:03 0:00:03 --:--:-- 46190  
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+deb9u1) ...  
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)  
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: diquickstart:lotsample-raspberrypi.b827abdc6734  
Oct 23 06:56:25 raspberrypi iot[2562]: Connection was successful  
pi@raspberrypi:~$ scot  
bash: scot: command not found  
pi@raspberrypi:~$
```

```
pi@raspberrypi:~$ pip install ibmiotf
Collecting ibmiotf
  Downloading ibmiotf-0.3.0.tar.gz (504kB)
    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 (80kB)
    100% |#####| 81kB 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-2.18.4-py2.py3-none-any.whl (88kB)
    100% |#####| 92kB 2.6MB/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<=0.10.0 (from ibmiotf)
  Downloading smtplib-0.11.0-py2.py3-none-any.whl
Collecting urllib3<1.23.0, >=1.22.1 (from requests<=2.5.0->ibmiotf)
  Downloading urllib3-1.22-py2.py3-none-any.whl (113kB)
    100% |#####| 12kB 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 charset3.1.0, >=3.0.2 (from requests<=2.5.0->ibmiotf)
  Downloading chardet-3.0.4-py2.py3-none-any.whl (133kB)
    100% |#####| 14kB 1.0MB/s
Collecting certifi<=2017.5.17 (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/b6c3ad957e6277b71ba90e316d05a03d9d735a0d12e0c0418
Running setup.py bdist_wheel for dicttoxml ... done
Stored in directory: /home/pi/.cache/pip/wheels/45/02/50/90910b33ec5a7b3ee66a13705401b5b0ef3460624070e12ce
Running setup.py bdist_wheel for paho-mqtt ... done
Stored in directory: /home/pi/.cache/pip/wheels/20/08/0d/acc0cf2990111b70e7de71de0bef06427b63be03130ff70493
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
pi@raspberrypi:~$
```

```
*Python 2.7.13 Shell*
File Edit Shell Debug Options Window Help
Python 2.7.13 (default, Jan 19 2017, 14:48:00)
[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:geopt14;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
|
```