

## Publish Data To The IBM Cloud

Date	13 <sup>th</sup> November 2022
Team ID	PNT2022TMID277860
Project Name	Project – Signs with Smart Connectivity for Better Road Safety

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pi@raspberrypi: ~
File Edit Tabs Help
2017-10-23 06:55:22 - https://ftp.nl.debian.org/debian/pool/main/o/openssl/lib
ssl1.0.0.1.0.1-1-deb8u0_armhf.deb
Resolving ftp.nl.debian.org [ftp.nl.debian.org]... 136.89.149.21, 2001:67c:2064:
1120::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: 887950 (86K) [application/x-debian-package]
Saving to: 'libssl1.0.0.1-1-deb8u0_armhf.deb'

libssl1.0.0.1-1- 100%[=====] 847.61K  350KB/s   in 2.4s

2017-10-23 06:55:25 (358 KB/s) - 'libssl1.0.0.1-1-deb8u0_armhf.deb' saved [
887950/887950]

pi@raspberrypi:~$ sudo dpkg -i libssl1.0.0.1-1-deb8u0_armhf.deb
Selecting previously unselected package libssl1.0.0:armhf.
(Reading database ... 115600 files and directories currently installed.)
Preparing to unpack libssl1.0.0.1-1-deb8u0_armhf.deb ...
Unpacking libssl1.0.0:armhf (1.0.1t-1-deb8u0) ...
Setting up libssl1.0.0:armhf (1.0.1t-1-deb8u0) ...
pi@raspberrypi:~$ curl -s -o https://github.com/ibm-messaging/iot-raspberrypi/rel
leases/download/1.0.2.1/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
100 606 0 606 0 0 457 0 --:--:-- 0:00:01 --:--:-- 407
100 110k 100 110k 0 0 2017 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-deb1u1) ...
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)
Corrupt: /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[2567]: 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 06:56:26 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:iot-sample-raspberrypi:b827ebbc6374
Oct 23 06:56:25 raspberrypi iot[2562]: Connection was successful
pi@raspberrypi:~$ scot
bash: scot: 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 (584K)
    100% |#####| 61kB 510kB/s
Collecting dicttoolx==1.7.4 (from ibmiotf)
  Downloading dicttoolx-1.7.4.tar.gz
Collecting iso8601==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 (804K)
    100% |#####| 81kB 910kB/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 (888K)
    100% |#####| 92kB 1.0MB/s
Collecting requests-toolbelt==0.7.0 (from ibmiotf)
  Downloading requests-toolbelt-0.8.0-py2.py3-none-any.whl (544K)
    100% |#####| 61kB 1.0MB/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% |#####| 13kB 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 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% |#####| 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, dicttoolx, paho-mqtt
Running setup.py bdist_wheel for ibmiotf ... done
Stored in directory: /home/pi/.cache/pip/wheels/7e/f9/45/bbc3ad95f82f7b71ba80e3160658a3d9d735ad12e0c0418
Running setup.py bdist_wheel for dicttoolx ... done
Stored in directory: /home/pi/.cache/pip/wheels/45/62/59/96910b33eca7b2aee6a13765401b5d0ef5468024078e12c0c
Running setup.py bdist_wheel for paho-mqtt ... done
Stored in directory: /home/pi/.cache/pip/wheels/20/d8/8d/acdc8f280611b7be7de71d0ebf6642f7b380313dfff0493
Successfully built ibmiotf dicttoolx paho-mqtt
Installing collected packages: dicttoolx, iso8601, paho-mqtt, pytz, urllib3, idna, chardet, certifi, requests, requests-toolbelt, xmltodict, ibmiotf
Successfully installed certifi-2017.7.27.1 chardet-3.0.4 dicttoolx-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 xmltodict-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 07:18:37,768 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 = 29 C Humidity = 50 % to IBM Watson
Published Temperature = 29 C Humidity = 50 % to IBM Watson
|
Ln: 8 Col: 0
```