

Publish Data To The IBM Cloud

Date	09 November 2022
Team ID	PNT2022TMID22583
Project Name	Project – Signs with Smart Connectivity for Better Road Safety

```

pi@raspberrypi: ~
File Edit Tabs Help
2017-10-23 06:52:22 - http://ftp.nl.debian.org/debian/pool/main/o/openssl/11b
v11.0.0-1.0-1t-1-deb8u6_armhf.deb
Resolving ftp.nl.debian.org (ftp.nl.debian.org)... 136.89.149.21, 2081:67c:2564:
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 (866K) [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 350KB/s in 2.4s

2017-10-23 06:55:25 (358 KB/s) - 'libssl1.0.0-1.0-1t-1-deb8u6_armhf.deb' saved [
867950/867950]

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 ... 115608 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 -s 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
100 384 0 384 0 0 157 0 --:--: 0:00:01 --:--:-- 157
100 609 0 609 0 0 457 0 --:--: 0:00:01 --:--:-- 457
100 110k 100 110k 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+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)
CGroup: /system.slice/iot.service
└─2562 /api/iot/iot /dev/null

Oct 23 06:56:24 raspberrypi systemd[1]: Starting LSB: IoT service...
Oct 23 06:56:24 raspberrypi iot[2507]: 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:b827ebbc6374
Oct 23 06:56:25 raspberrypi iot[2562]: Connection was successful
pi@raspberrypi:~$ scout
bash: scout: 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% |#####| 618K 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 (608K)
    100% |#####| 818K 916KB/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% |#####| 928K 1.0MB/s
Collecting requests-toolbelt>=0.7.0 (from ibmiotf)
  Downloading requests-toolbelt-0.8.0-py2.py3-none-any.whl (54K)
    100% |#####| 618K 1.0MB/s
Collecting xmltodict>=0.10.2 (from ibmiotf)
  Downloading xmltodict-0.11.9-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 (132K)
    100% |#####| 132K 1.4MB/s
Collecting idna<2.7,>=2.5 (from requests>=2.5.0->ibmiotf)
  Downloading idna-2.6-py2.py3-none-any.whl (56K)
    100% |#####| 618K 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 (133K)
    100% |#####| 143K 1.0MB/s
Collecting certifi==2017.4.7 (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/f9/45/b0c33ad957e82f7b71ba80e316065a83d9d735ad012eb0c0418
Running setup.py bdist_wheel for dicttoxml ... done
Stored in directory: /home/pi/.cache/pip/wheels/45/62/59/96910b33eca7b2aa66a137e401b5d4f5468024078e12c0e
Running setup.py bdist_wheel for paho-mqtt ... done
Stored in directory: /home/pi/.cache/pip/wheels/20/68/bd/acdc8f289011b7e7de71deebef8642f83be0313dff7f0493
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-2.6 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-0.11.9
pi@raspberrypi:~$

```

```
Python 2.7.13 Shell
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
|
```

IBM Watson IoT Platform

113119ug07072@smartinternz.com
ID: bx6mrq

Browse Action Device Types Interfaces

BROWSE DEVICES

All Devices Diagnose

This table shows a summary of all devices that have been added. It can be filtered, organized, and searched on using different criteria. To get started, you can add devices by using the Add Device button, or by using API.

Search by Device ID

Device Simulator

Device ID	Status	Device Type	Class ID	Date Added
12345	Disconnected	NodeMCU	Device	Nov 9, 2022 12:36 AM

Items per page 50 | 1-1 of 1 item

1 of 1 page

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Items per page 50 | 1-1 of 1 item

1 of 1 page

Identity Device Information Recent Events State Logs

Device ID	12345
Device Type	NodeMCU
Date Added	Nov 9, 2022 12:36 AM
Added By	113119ug07072@smartinternz.com
Connection Status	Disconnected

Simulations

[Import/Export simulation](#)



1/50 Simulations Running

[+ New Simulation](#)

Device Type
weather_device



1 Event



1 Device

 weather_today



1 x

Create Simulated Device

Use Registered Device

