

Develop The Python Script

Publish Data To The IBM Cloud

Date	5 November 2022
Team ID	PNT2022TMID29479
Batch	B2-2M4E
Project Name	Project – Signs with Smart Connectivity for Better Road Safety

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File Edit Tabs Help
2017-10-23 06:55:22 - http://ftp.nl.debian.org/debian/pool/main/o/openssl/libssl1.0.0-1.0.1t-1-deb8u6_armhf.deb
Resolving ftp.nl.debian.org (ftp.nl.debian.org)... 130.89.149.21, 2001:67c:2064::129::22
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: 867950 (848K) [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 06:55:25 (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 ... 115500 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 -O 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
           Dload  Upload   Total   Spent    Left   Speed

100 164    0 164    0  0    157    0 --:--:--  0:00:01 --:--:--  157
100 609    0 609    0  0    457    0 --:--:--  0:00:01 --:--:--  457
100 118 100 118    0  0 2917    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 06:56:29 UTC; 17s ago
     Docs: man:systemd-sys-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[2561]: Starting the iot program
Oct 23 06:56:25 raspberrypi iot[2562]: *** IoT Raspberry Pi Setup 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:b027eb8c6734
Oct 23 06:56:25 raspberrypi iot[2562]: Connection was successful

pi@raspberrypi:~$ sscot
bash: sscot: command not found

pi@raspberrypi:~$

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File Edit Tabs Help
pi@raspberrypi: ~$ pip install ibmiotf
Collecting ibmiotf
  Downloading ibmiotf-0.3.0.tar.gz (58kB)
    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 (60kB)
    100% |#####| 61kB 916kB/s
Collecting pytz==2014.7 (from ibmiotf)
  Using cached pytz-2017.2-py2.py3-none-any.whl
Collecting requests==2.9.2 (from ibmiotf)
  Downloading requests-2.18.4-py2.py3-none-any.whl (88kB)
    100% |#####| 92kB 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==0.10.2 (from ibmiotf)
  Downloading xmltodict-0.11.0-py2.py3-none-any.whl
Collecting urllib3<1.23, >=1.21.1 (from requests==2.9.2->ibmiotf)
  Downloading urllib3-1.22-py2.py3-none-any.whl (132kB)
    100% |#####| 132kB 1.4MB/s
Collecting idna<2.7, >=2.5 (from requests==2.9.2->ibmiotf)
  Downloading idna-2.6-py2.py3-none-any.whl (56kB)
    100% |#####| 61kB 1.7MB/s
Collecting charset<3.1.0, >=3.0.2 (from requests==2.9.2->ibmiotf)
  Downloading charset-3.0.4-py2.py3-none-any.whl (133kB)
    100% |#####| 143kB 1.9MB/s
Collecting certifi==2017.4.17 (from requests==2.9.2->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/45/b2/59/96910b33ac6a7b2a66a13765401b5bdcf5468024078e12cc
Running setup.py bdist_wheel for paho-mqtt ... done
Stored in directory: /home/pi/.cache/pip/wheels/20/d8/8d/acdc8f280011b7be7de71debe642f7b83be031dfff90493
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-0.11.0
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/dht11toibmiotf.py =====
2017-10-23 07:19:37.768 ibmiotf.device.Client INFO Connected successfully: d:gept1a;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
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IBM Watson IoT Platform

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Browse

Action

Device Types

Interfaces

Add Device

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.

Q Search by Device ID

Device Simulator

Device ID	Status	Device Type	Class ID	Date Added	Descriptive Location
> weather_today	Disconnected	weather_device	Device	Nov 4, 2022 8:58 AM	

Items per page 50 | 1-1 of 1 item

1 of 1 page

1 Simulation running

Device ID	Status	Device Type	Class ID	Date Added	Descriptive Location
weather_today	Disconnected	weather_device	Device	Nov 4, 2022 8:58 AM	

Identity

Device Information

Recent Events

State

Logs

Device ID

weather_today

Device Type

weather_device

Date Added

Nov 4, 2022 8:58 AM

Added By

msadhithyan05@gmail.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

