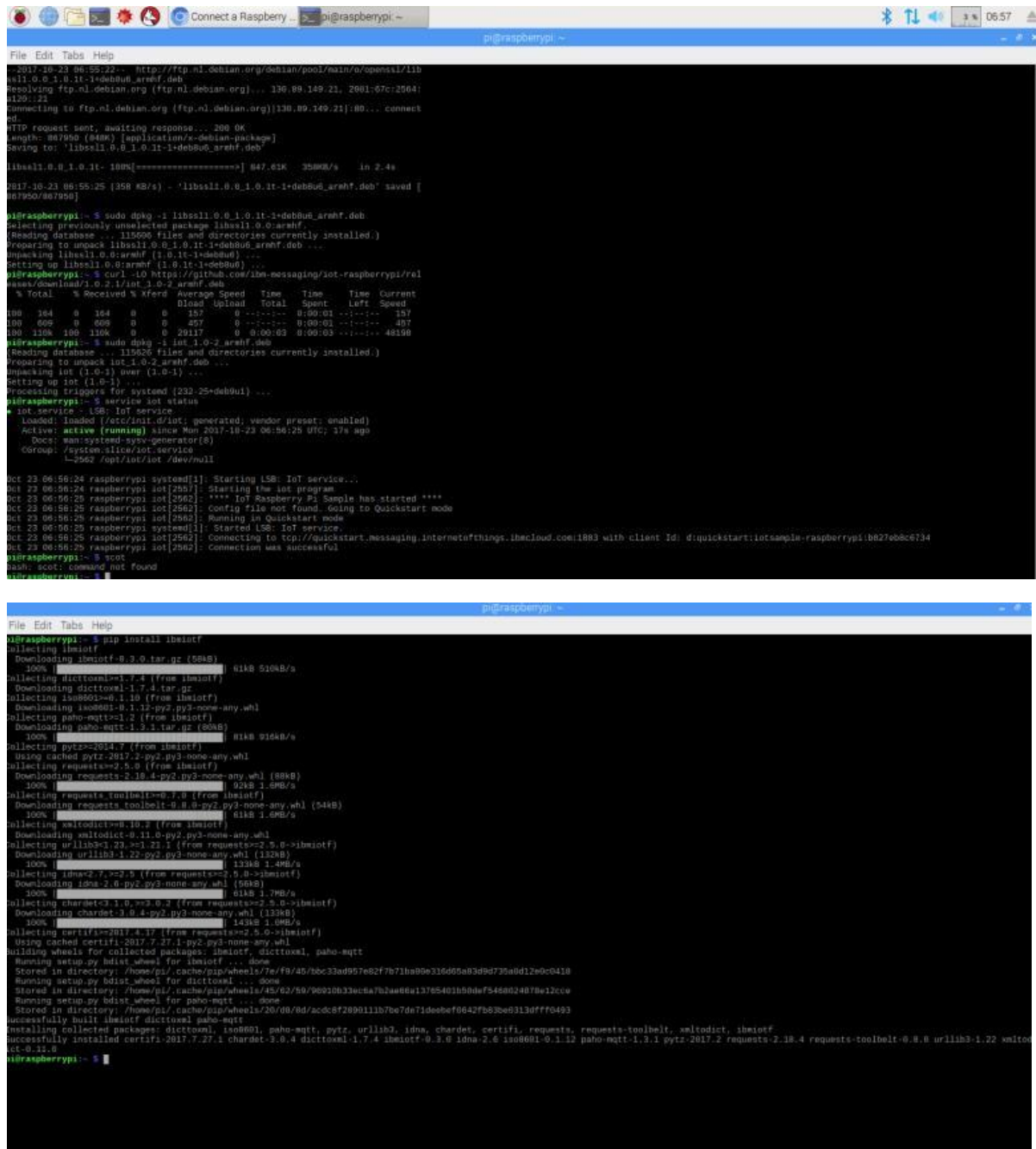


# Publish Data To The IBM Cloud

Date	16 <sup>th</sup> November 2022
Team ID	PNT2022TMID40708
Project Name	Project – Signs with Smart Connectivity for Better Road Safety



```
File Edit Tabs Help
pi@raspberrypi ~
2017-10-23 06:55:22 - http://ftp.nl.debian.org/debian/pool/main/o/openssl/lib
ssl.0.0.1.0.11-1+deb8u6_armhf.deb
Resolving ftp.nl.debian.org [ftp.nl.debian.org]... 136.89.149.21, 2081:67c:2564:
129:22
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: 87950 (84K) [application/x-debian-package]
Saving to: 'libssl1.0.0.1.0.11-1+deb8u6_armhf.deb'

libssl1.0.0.1.0.11- 100%[=====] 847.61K 358KB/s in 2.4s
2017-10-23 06:55:25 (358 KB/s) - 'libssl1.0.0.1.0.11-1+deb8u6_armhf.deb' saved [
87950/87950]

pi@raspberrypi ~ $ sudo dpkg -i libssl1.0.0.1.0.11-1+deb8u6_armhf.deb
Selecting previously unselected package libssl1.0.0:armhf.
(Reading database ... 115606 files and directories currently installed.)
Preparing to unpack libssl1.0.0.1.0.11-1+deb8u6_armhf.deb ...
Unpacking libssl1.0.0:armhf (1.0.1f-1+deb8u6) ...
Setting up libssl1.0.0:armhf (1.0.1f-1+deb8u6) ...
pi@raspberrypi ~ $ curl -iO https://github.com/ibm-messaging/iot-raspberrypi/rel
eases/download/1.0.2.1/iot-1.0-2_armhf.deb
% Total % Received % Xferd Average Speed Time Time Time Current
100 164 0 164 0 0 157 0 --:--:-- 0:00:01 --:--:-- 157
100 606 0 606 0 0 457 0 --:--:-- 0:00:01 --:--:-- 457
100 118 100 118 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 (1.0-2) over (1.0-1) ...
Setting up iot (1.0-2) ...
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-sys-generator(8)
CGroup: /system.slice/iot.service
└─2562 /opt/iot/iot /devnull

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 06:56:25 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:iot-sample-raspberrypi:b627ebdc6734
Oct 23 06:56:25 raspberrypi iot[2562]: Connection was successful
pi@raspberrypi ~ $ scot
sh: 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 (58kB)
    100% |#####| 61KB 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-1.2.1.tar.gz (80kB)
    100% |#####| 81KB 316KB/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-2.10.4-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==2.2.1 (from requests==2.5.0->ibmiotf)
  Downloading urllib3-1.22-py2.py3-none-any.whl (132kB)
    100% |#####| 132KB 1.4MB/s
Collecting idna==2.7.0 (from requests==2.5.0->ibmiotf)
  Downloading idna-2.0.4-py2.py3-none-any.whl (58kB)
    100% |#####| 61KB 1.7MB/s
Collecting charset3==3.1.0, <=3.0.3 (from requests==2.5.0->ibmiotf)
  Downloading charset3-3.0.4-py2.py3-none-any.whl (132kB)
    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 (132kB)
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/7e/f9/45/b0c33ad957e62f7b71ba0e336d05e03d9d735a0d12e0c0418
Running setup.py bdist_wheel for dictioxml ... done
Stored in directory: /home/pi/.cache/pip/wheels/45/62/59/96920b33ec6a7b2a68a13765401b0d6f546802407b12c0e
Running setup.py bdist_wheel for paho-mqtt ... done
Stored in directory: /home/pi/.cache/pip/wheels/20/08/0d/acdc8f280911b76e7de71deebf6642fb83e0313dfff0493
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-2.0 iso8601-0.1.10 paho-mqtt-1.2.1 pytz-2017.2 requests-2.10.4 requests-toolbelt-0.8.0 urllib3-1.22 xmlto
ct-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, 14:48:08)
[GCC 6.3.0 20170124] on linux2
Type "copyright", "credits" or "license()" for more information.
>>>
***** RESTART: /home/pi/Downloads/dht11toibm.py *****
2017-10-23 07:18:37.708 ibmiotf.device.Client INFO Connected successfully: d:geg14;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
|
```