

PUBLISH DATA TO IBM CLOUD

Date	15 th November
Team ID	PNT2022TMID33244
Project	Project- Smart waste management for metropolitan cities.

```
File Edit Format Run Options Window Help
import requests
import json
import ibmiotf.application
import ibmiotf.device
import time
import random
import sys

# Watson device details
organization = "lgm2k2"
deviceType = "revathyhub"
deviceId = "revathy2001"
authMethod = "token"
authToken = "revathy2001"

#Generate random values for random variables (temperature+humidity)
def myCommandCallback(cmd):
    global a
    print("Command received:%s" %cmd.data['command'])
    controlCmd.data['command']
    print(control)

try:
    deviceOptions={"org": organization, "type": deviceType,"id": deviceId,"auth-method":"authMethod","aut
    deviceCli = ibmiotf.device.Client(deviceOptions)
except Exception as e:
    print("Caught exception connecting device %s" %str(e))
    sys.exit()

#connect and send a datapoint "temp" with value integer value into the cloud as a type of event for
deviceCli.connect()

while True:
    distance= random.randint(10,70)
    loadcell= random.randint(5,15)
    data= {'dist':distance,'load':loadcell}

    if loadcell < 13 and loadcell > 15:
        load = "90 %>"

    elif loadcell < 8 and loadcell > 12:
        load = "60 %>"

    elif loadcell < 4 and loadcell > 7:
        load = "40 %>"
    else:
        load = "0 %>"

    if distance < 15:
        dist = "Risk warning: 'Dumpster poundage getting high, Time to collect :> 90 %>"

    #if distance < 40 and distance > 150:
        #dist = "Risk warning: 'Risk of explosion, Time to collect :> 90 %>"

File Edit Shell Debug Options Window Help
Win32
Type "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: D:\reva.py =====
2022-11-15 20:09:09,960 ibmiotf.device.Client INFO Connected successfully: d
\\gm2k2:revathyhub:revathy2001
Gandigramam, Karur
published distance = 70 loadcell:7 lon = 78.177731 lat = 10.678991
0 %>
Risk warning:17 %>
alert :No need to collect right now
Gandigramam, Karur
published distance = 70 loadcell:7 lon = 78.177731 lat = 10.678991
0 %>
Risk warning:17 %>
alert :No need to collect right now
Gandigramam, Karur
published distance = 59 loadcell:5 lon = 78.177731 lat = 10.678991
0 %>
Risk warning:40 %>
alert :No need to collect right now
Gandigramam, Karur
published distance = 59 loadcell:5 lon = 78.177731 lat = 10.678991
0 %>
Risk warning:40 %>
alert :No need to collect right now
Gandigramam, Karur
published distance = 58 loadcell:7 lon = 78.177731 lat = 10.678991
0 %>
Risk warning:40 %>
alert :No need to collect right now
Gandigramam, Karur
published distance = 58 loadcell:7 lon = 78.177731 lat = 10.678991
0 %>
Risk warning:40 %>
alert :No need to collect right now
Gandigramam, Karur
published distance = 15 loadcell:15 lon = 78.177731 lat = 10.678991
0 %>
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alert :No need to collect right now
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published distance = 15 loadcell:15 lon = 78.177731 lat = 10.678991
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```

```
Python 3.7.0 Shell
File Edit Shell Debug Options Window Help
name: warning: %
alert :No need to collect right now
Gandigramam, Karur
published distance = 70 loadcell:7 lon = 78.177731 lat = 10.678991
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0 %
Risk warning:40 %
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Gandigramam, Karur
published distance = 56 loadcell:7 lon = 78.177731 lat = 10.678991
0 %
Risk warning:40 %
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published distance = 15 loadcell:15 lon = 78.177731 lat = 10.678991
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published distance = 15 loadcell:15 lon = 78.177731 lat = 10.678991
0 %
Risk warning:17 %
alert :No need to collect right now
Gandigramam, Karur
published distance = 26 loadcell:8 lon = 78.177731 lat = 10.678991
0 %
Risk warning:dumpster is above 60%
alert :No need to collect right now
Gandigramam, Karur
published distance = 26 loadcell:8 lon = 78.177731 lat = 10.678991
0 %
Risk warning:dumpster is above 60%
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IBM Watson IoT Platform

Browse Action Device Types Interfaces

renuka2000 Disconnected Renukahub Device Nov 3, 2022 6:34 PM

revathy2001 Connected Revathyhub Device Oct 31, 2022 12:16 PM

Identity Device Information Recent Events State Logs

The recent events listed show the live stream of data that is coming and going from this device.

Event	Value	Format	Last Received
IoTSensor	{"dist":58,"load":7}	json	a few seconds ago
IoTSensor	{"type":"Buffer","data":[34,97,108,101,114,116,...]}	json	a few seconds ago
IoTSensor	{"dist":59,"load":5}	json	a few seconds ago
IoTSensor	{"type":"Buffer","data":[34,97,108,101,114,116,...]}	json	a few seconds ago

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Items per page 50 | 1-2 of 2 items

1 of 1 page

Python 3.7.0 Shell

```

File Edit Shell Debug Options Window Help
Python 3.7.0 (v3.7.0:1bf9cc5093, Jun 27 2018, 04:59:51) [MSC v.1914 64 bit (AMD64)] on win32
Type "copyright", "credits" or "license()" for more information.
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