

**Project Development Phase**  
Sprint-2

Date	7 November 2022
Team Id	PNT2022TMID46726
Project Name	Hazardous Area Monitoring for Industrial Plant Powered by Iot

Coding to stimulate:

#IBM Watson IOT Platform

#pip install wiotp-sdk

import wiotp.sdk.device

import time import random

myConfig = {

  "identity": {

    "orgId": "fqo6e5",

    "typeId": "blesson",

    "deviceId": "abcd"

  },

  "auth": { "token": "23456789"

  }

}

def myCommandCallback(cmd):

  print("Message received from IBM IoT Platform: %s" % cmd.data['command'])

  m=cmd.data['command']

  client = wiotp.sdk.device.DeviceClient(config=myConfig, logHandlers=None)

  client.connect()

  while True: temp=random.randint(-

  20,125) gas=random.randint(0,100)

  myData={'temperature':temp, 'gas':gas}

  client.publishEvent(eventId="status", msgFormat="json", data=myData, qos=0,  
  onPublish=None)

  print("Published data Successfully: %s", myData)

  client.commandCallback = myCommandCallback time.sleep(2)

  client.disconnect()

OUTPUT:

Connection Details

IBM

IBM Watson IoT Platform

Inbox (1,124) - blessmanuel307@...

New tab

fgo6e5.internetofthings.ibmcloud.com/dashboard/devices/browse

IBM Watson IoT Platform

blessmanuel307@gmail.com  
ID: fgo6e5

Browse

Action

Device Types

Interfaces

+

Add Device

<input type="checkbox"/>	Device ID	Status	Device Type	Class ID	Date Added	Descriptive Location	
<input checked="" type="checkbox"/>	abcd	Connected	blesson	Device	Nov 19, 2022 10:24 AM		→ ...

Identity

Device Information

Recent Events

State

Logs

Device ID

Device Type

Date Added

Added By

Connection Status

abcd

blesson

Nov 19, 2022 10:24 AM

blessmanuel307@gmail.com

Connected

Connection Time: Nov 19, 2022 1:33 PM

Client Address: 113.30.176.66 SecureToken

Items per page: 50 | 1-1 of 1 item

1 of 1 page

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fgo6e5.internetofthings.ibmcloud.com/dashboard/devices/browse

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IBM Watson IoT Platform

blessmanuel307@...  
ID: fgo6e5

Browse

Action

Device Types

Interfaces

+

Add Device

▼	<input checked="" type="checkbox"/>	abcd	Connected	blesson	Device	Nov 19, 2022 10:24 AM	→
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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	{"temp":90,"Humid":81}	json	a few seconds ago
IoTSensor	{"temp":91,"Humid":76}	json	a few seconds ago
IoTSensor	{"temp":94,"Humid":67}	json	a few seconds ago
IoTSensor	{"temp":95,"Humid":61}	json	a few seconds ago
IoTSensor	{"temp":93,"Humid":64}	json	a few seconds ago

