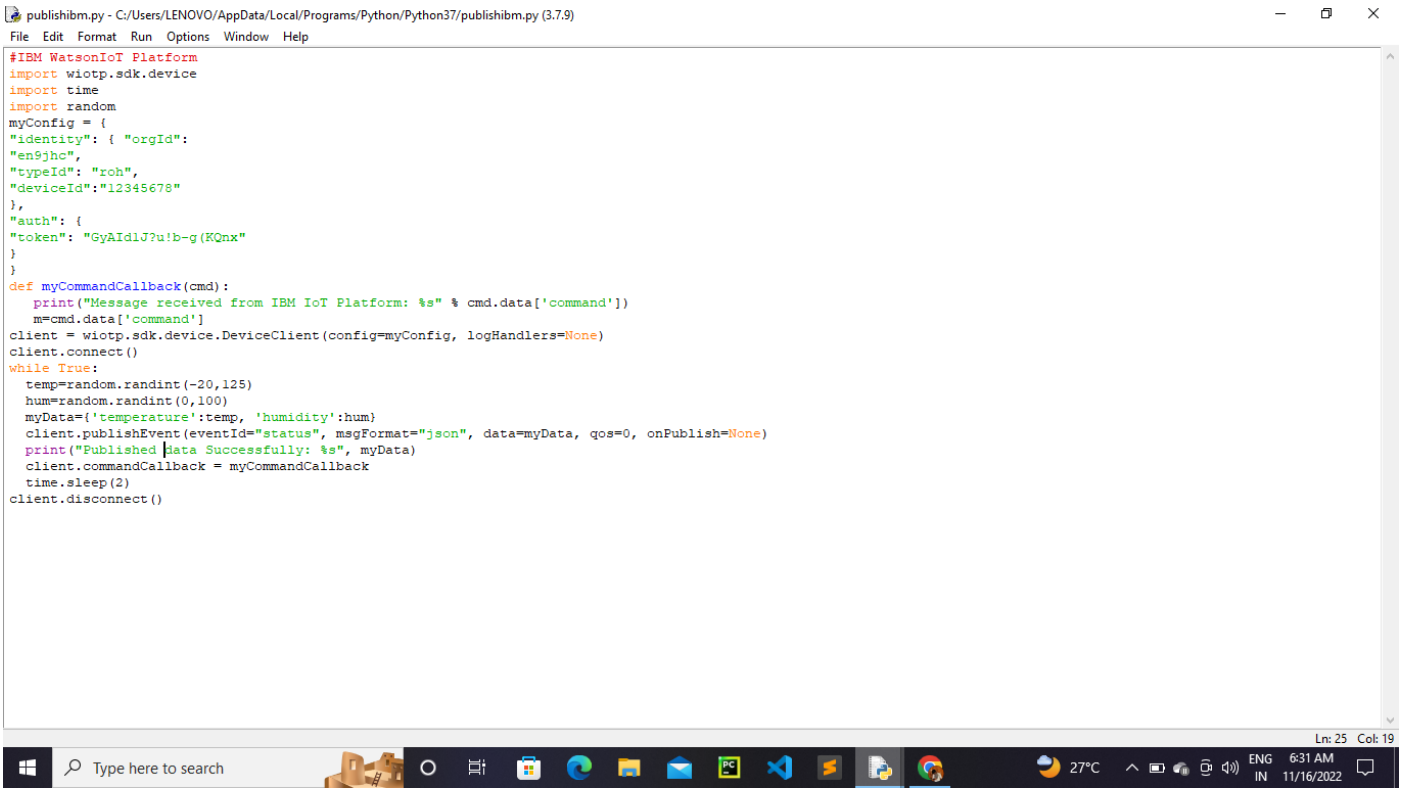
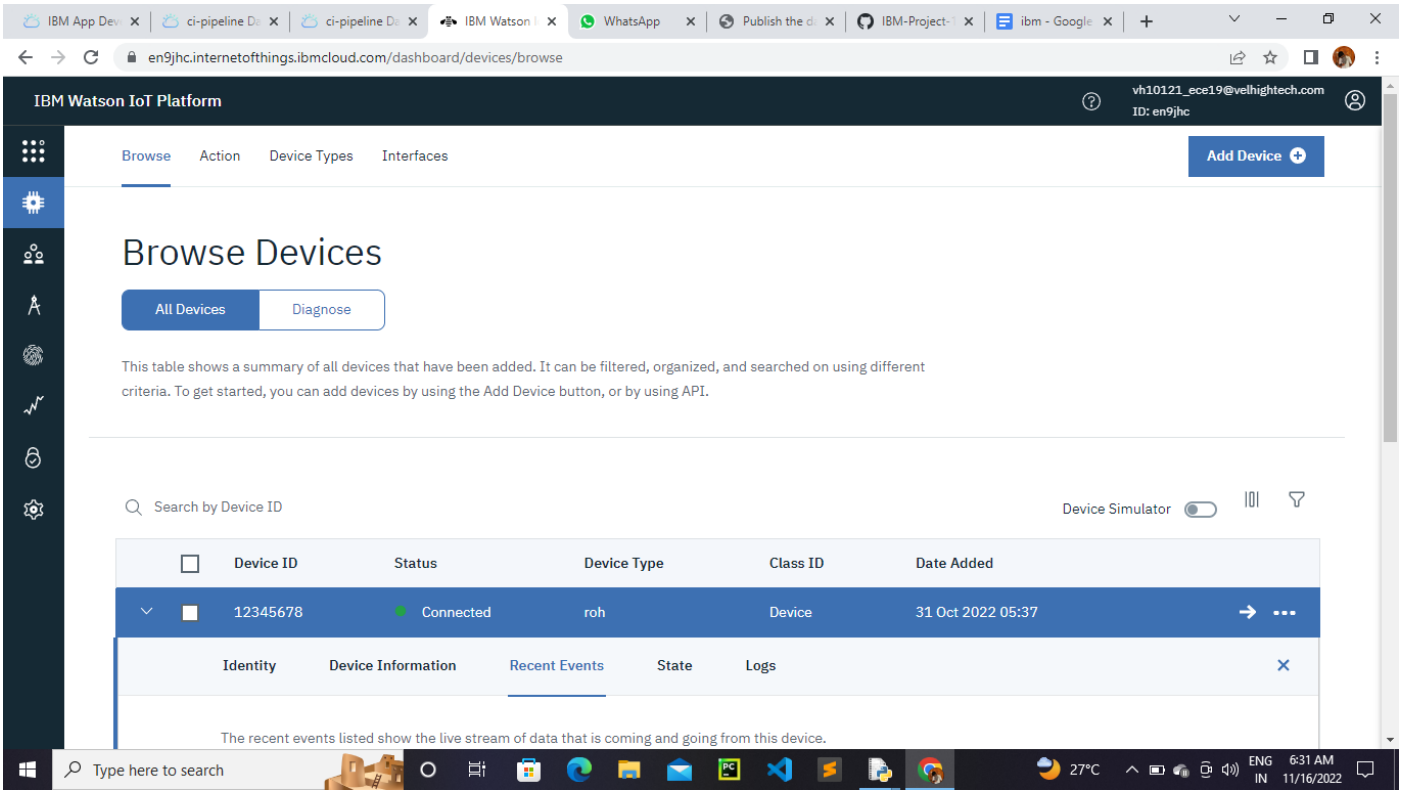
Develop The Python Script

Date	15 September 2022
Team ID	PNT2022TMID22104
Project Name	Signs with Smart Connectivity for Better Road Safety
Team Leader	C. Rujesh Kumar
Team Members	Pokala Rohith Praveen.G Yokesh.G

Publish Data To The IBM Cloud




Python 3.7.9 Shell
File Edit Shell Debug Options Window Help
Python 3.7.9 (tags/v3.7.9:13c94747c7, Aug 17 2020, 18:58:18) [MSC v.1900 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
= RESTART: C:/Users/LENOVO/AppData/Local/Programs/Python/Python37/publishibm.py
2022-11-16 06:30:12,580 wiotp.sdk.device.client.DeviceClient INFO Connected successfully: d:en9jhc:roh:12345678
Published data Successfully: %s {'temperature': 94, 'humidity': 90}
Published data Successfully: %s {'temperature': -11, 'humidity': 34}
Published data Successfully: %s {'temperature': 109, 'humidity': 39}
Published data Successfully: %s {'temperature': 109, 'humidity': 29}
Published data Successfully: %s {'temperature': 122, 'humidity': 30}
Published data Successfully: %s {'temperature': 92, 'humidity': 2}
Published data Successfully: %s {'temperature': 81, 'humidity': 58}
Published data Successfully: %s {'temperature': 53, 'humidity': 80}
Published data Successfully: %s {'temperature': -8, 'humidity': 77}
Published data Successfully: %s {'temperature': 85, 'humidity': 78}
Published data Successfully: %s {'temperature': 123, 'humidity': 31}
Published data Successfully: %s {'temperature': 77, 'humidity': 19}
Published data Successfully: %s {'temperature': 83, 'humidity': 13}
Published data Successfully: %s {'temperature': 113, 'humidity': 32}
Published data Successfully: %s {'temperature': 43, 'humidity': 72}
Published data Successfully: %s {'temperature': 67, 'humidity': 76}
Published data Successfully: %s {'temperature': 71, 'humidity': 63}
Published data Successfully: %s {'temperature': 61, 'humidity': 61}
Published data Successfully: %s {'temperature': 3, 'humidity': 52}
Published data Successfully: %s {'temperature': 49, 'humidity': 66}
Published data Successfully: %s {'temperature': -10, 'humidity': 69}
Published data Successfully: %s {'temperature': 95, 'humidity': 15}
Published data Successfully: %s {'temperature': -19, 'humidity': 59}
Published data Successfully: %s {'temperature': 108, 'humidity': 47}
Published data Successfully: %s {'temperature': 121, 'humidity': 74}
Published data Successfully: %s {'temperature': -2, 'humidity': 81}
Published data Successfully: %s {'temperature': 97, 'humidity': 18}
Published data Successfully: %s {'temperature': 28, 'humidity': 0}
Published data Successfully: %s {'temperature': 11, 'humidity': 12}
Published data Successfully: %s {'temperature': 19, 'humidity': 15}
Published data Successfully: %s {'temperature': 2, 'humidity': 14}
Published data Successfully: %s {'temperature': 99, 'humidity': 89}
Published data Successfully: %s {'temperature': 97, 'humidity': 66}
Published data Successfully: %s {'temperature': 115, 'humidity': 51}
Ln: 5 Col: 0
Type here to search
27°C
ENG IN
6:31 AM 11/16/2022


IBM App Dev
ci-pipeline De
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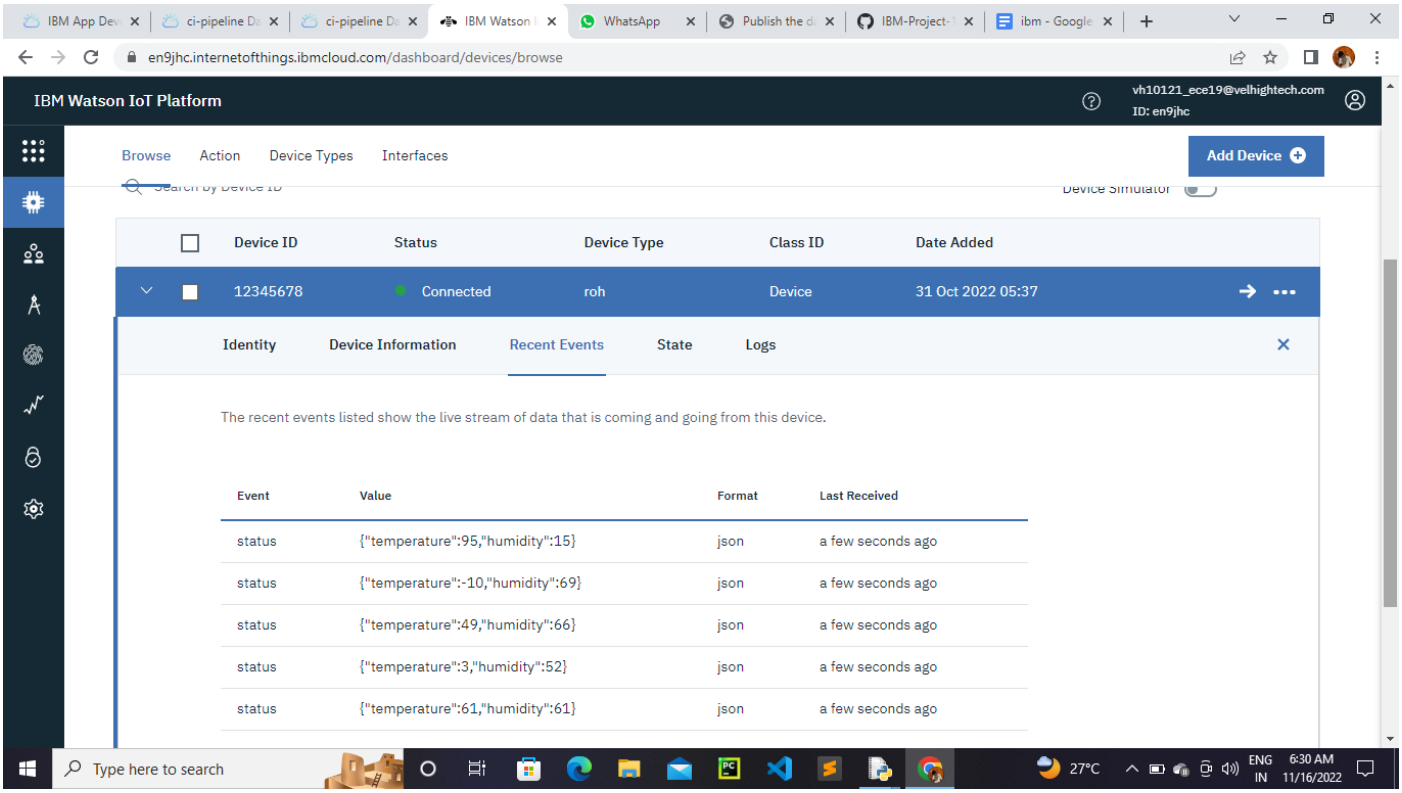
IBM Watson I
WhatsApp
Publish the d
IBM-Project-
ibm - Google
en9jhc.internetofthings.ibmcloud.com/dashboard/devices/browse
IBM Watson IoT Platform
vh10121_ece19@velhightech.com
ID: en9jhc
Browse
Action
Device Types
Interfaces
Add Device
Browse Devices
All Devices
Diagnose
This table shows a summary 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.
Search by Device ID
Device Simulator
Device ID
Status
Device Type
Class ID
Date Added
12345678
Connected
roh
Device
31 Oct 2022 05:37
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.
Type here to search
27°C
ENG IN
6:31 AM 11/16/2022


IBM Watson IoT Platform
vh10121_ece19@velhightech.com
ID: en9jhc
Browse
Action
Device Types
Interfaces
Add Device
Device ID
Status
Device Type
Class ID
Date Added
12345678
Connected
roh
Device
31 Oct 2022 05:37
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
status
{"temperature":95,"humidity":15}
json
a few seconds ago
status
{"temperature":-10,"humidity":69}
json
a few seconds ago
status
{"temperature":49,"humidity":66}
json
a few seconds ago
status
{"temperature":3,"humidity":52}
json
a few seconds ago
status
{"temperature":61,"humidity":61}
json
a few seconds ago
Type here to search
27°C
ENG
IN
6:30 AM
11/16/2022

Coding

```
#IBM WatsonIoT Platform
import wiotp.sdk.device
import time
import random
myConfig = {
"identity": { "orgId":
"hj5fmy",
"typeId": "NodeMCU",
"deviceId":"12345"
},
"auth": {
"token": "12345678"
}
}
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)
hum=random.randint(0,100)
myData={'temperature':temp, 'humidity':hum}
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()
```