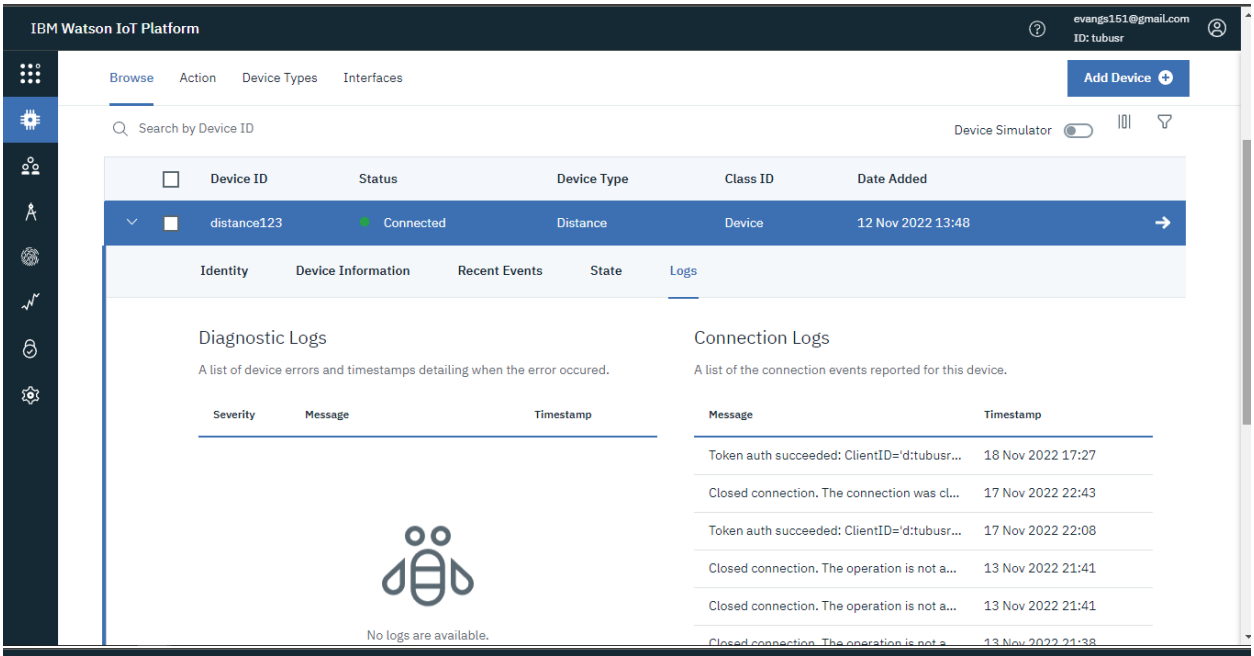
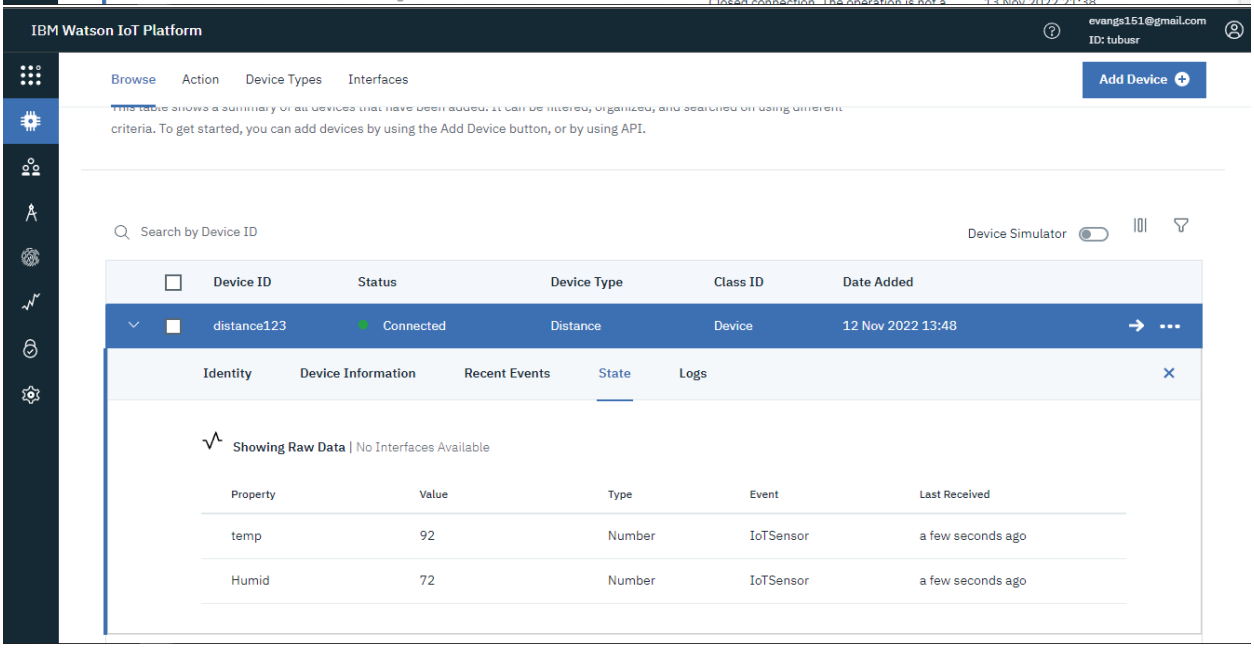
SPRINT 1

TEAM ID	PNT2022TMID45392
PROJECT NAME	SMART WASTE MANAEMENT SYSTEM IN METROPOLITAN CITIES

SIMULATION CREATION





ibmiotpublishsubscribe.py - D:\ibmiotpublishsubscribe.py (3.7.0)

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```
import time
import sys
import ibmiotf.application
import ibmiotf.device
import random

#Provide your IBM Watson Device Credentials
organization = "tubusr"
deviceType = "Distance"
deviceId = "distance123"
authMethod = "token"
authToken = "hdAJ)(n3fQRM26DMPc"

# Initialize GPIO
def myCommandCallback(cmd):
    print("Command received: %s" % cmd.data['command'])
    status=cmd.data['command']
    if status=="lighton":
        print ("led is on")
    elif status == "lightoff":
        print ("led is off")
    else :
        print ("please send proper command")

try:
        deviceOptions = {"org": organization, "type": deviceType, "id": deviceId, "auth-method": authMethod, "auth-token": authToken}
        deviceCli = ibmiotf.device.Client(deviceOptions)
        #.............................................

except Exception as e:
        print("Caught exception connecting device: %s" % str(e))
        sys.exit()

# Connect and send a datapoint "hello" with value "world" into the cloud as an event of type "greeting" 10 times
deviceCli.connect()

while True:
        #Get Sensor Data from DHT11

        temp=random.randint(90,110)
        Humid=random.randint(60,100)

        data = { 'temp' : temp, 'Humid': Humid }
        #print data
```

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Python 3.7.0 Shell

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```
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.
>>>
========== RESTART: D:\ibmiotpublishsubscribe.py ==========
2022-11-18 17:27:37,162   ibmiotf.device.Client      INFO    Connected successfully: d:tubusr:Distance:distance123
Published Temperature = 108 C Humidity = 61 % to IBM Watson
Published Temperature = 94 C Humidity = 90 % to IBM Watson
Published Temperature = 108 C Humidity = 93 % to IBM Watson
Published Temperature = 102 C Humidity = 91 % to IBM Watson
Published Temperature = 93 C Humidity = 86 % to IBM Watson
Published Temperature = 92 C Humidity = 69 % to IBM Watson
Published Temperature = 98 C Humidity = 80 % to IBM Watson
Published Temperature = 92 C Humidity = 72 % to IBM Watson
Published Temperature = 95 C Humidity = 61 % to IBM Watson
Published Temperature = 97 C Humidity = 78 % to IBM Watson
Published Temperature = 91 C Humidity = 89 % to IBM Watson
Published Temperature = 110 C Humidity = 100 % to IBM Watson
Published Temperature = 100 C Humidity = 95 % to IBM Watson
Published Temperature = 109 C Humidity = 99 % to IBM Watson
Published Temperature = 101 C Humidity = 96 % to IBM Watson
Published Temperature = 94 C Humidity = 79 % to IBM Watson
Published Temperature = 104 C Humidity = 63 % to IBM Watson
```

Ln: 23 Col: 0