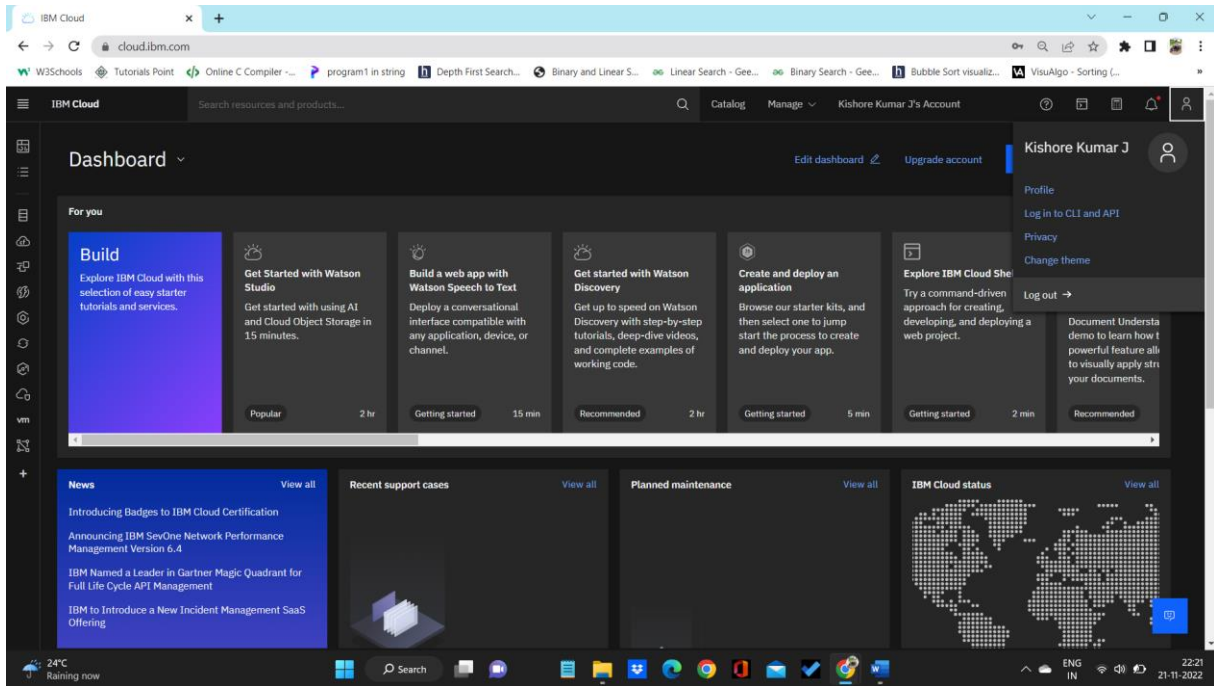


Prerequisites

Date	20-10-2022
Team ID	PNT2022TMID22482
Project Name	Smart Waste Management System for Metropolitan Cities
Team Member	Kishore Kumar. J

IBM Cloud:



IBM Watson IoT Platform:

IBM Watson IoT Platform

Browse Action Device Types Interfaces

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	Descriptive Location	Added By
13	Disconnected	kiekie	Device	6 Nov 2022 3:36 PM		113119ug04050@smartinternz.com

Items per page 50 | 1-1 of 1 item

1 of 1 page

1 Simulation running

Python software:

```
Python code sub and publish.py - C:\Users\sarav\OneDrive\Documents\GitHub\Project_SWM-7\Python code sub and publish.py
File Edit Format Run Options Window Help

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

#provide your IBM watson credentials
organization = "rrlqib"
deviceType = "abcd"
deviceId = "12"
authMethod = "token"
authToken = "12345678"

#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":
    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 thecloud as an event of type '
deviceCli.connect()

while True:
    #Get Sensor data from DHT11

    temp = random.randint(50,110)
    hum = random.randint(60,100)

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

    def myOnPublishCallback():
        print("Publishing temperature = %s and Humidity = %s" % (temp, hum))

    deviceCli.publishEvent("Hello World", "world", data, myOnPublishCallback)
```

```
Python 3.7.0 Shell
File Edit Shell Debug Options Window Help

Python 3.7.0 (tags/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: C:\Users\sarav\OneDrive\Documents\GitHub\Project_SWM-7\Python code sub and p
ublish.py
2022-11-05 17:49:17.608 ibmiotf.device.Client INFO Connected successfully: dirrlq
biabcd:12
Published Temperature = 107 C Humidity = 75 F to Ibm Watson
Published Temperature = 95 C Humidity = 88 F to Ibm Watson
Published Temperature = 94 C Humidity = 71 F to Ibm Watson
```