

PUBLISH DATA TO THE IBM CLOUD

Team Id	PNT2022TMID05219
Project	Smart waste management system for metropolitan cities

PYTHON OUTPUT

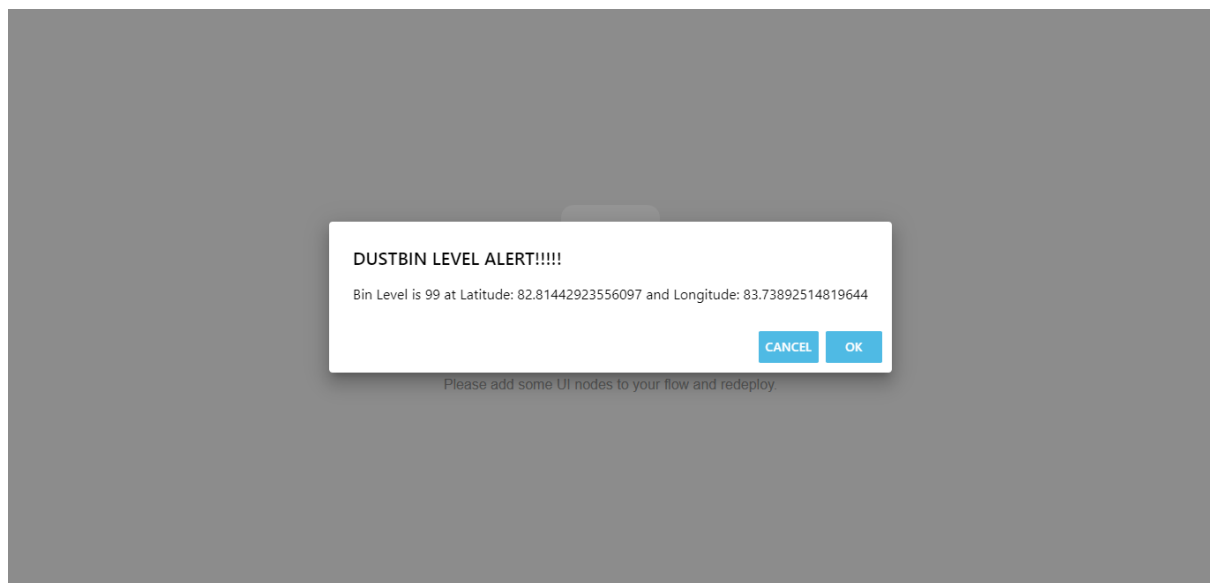
```
hpy - C:/Users/bgaya/Downloads/Scripts/hpy (3.9.7)
File Edit Format Run Options Window Help

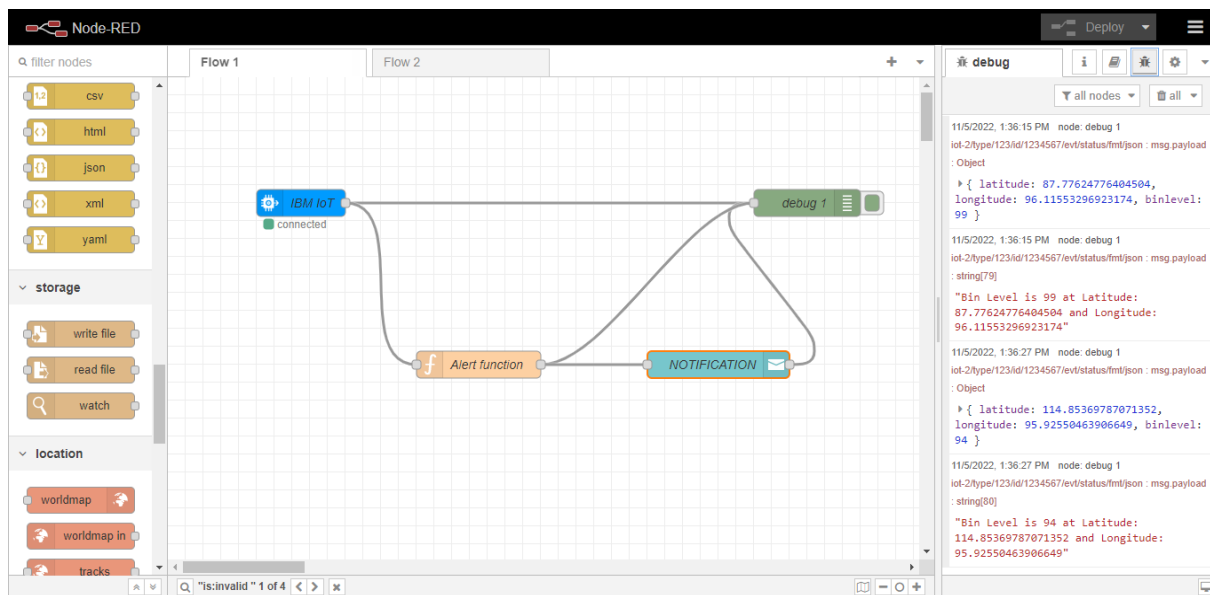
#IBM Watson IoT Platform
hpy install wiotp-sdk
import wiotp.sdk.device
import time
import random
myConfig = {
    "identity": {
        "orgId": "mldk59",
        "typeId": "pythoncode",
        "deviceId": "252525"
    },
    "auth": {
        "token": "Q2qoDYx6U*Q6b*IpuC"
    }
}
def myCommandCallback(cmd):
    print("Message received from IBM IoT Platform: %s" % cmd.data['command'])
    #cmd.data['command']

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

while True:
    latitude=random.uniform(27.2046,125.25)
    longitude=random.uniform(77.4977,100.1526)
    binlevel=random.randint(10,100)
    if binlevel >= 90:
        myData={"latitude":latitude, 'longitude':longitude, 'binlevel':binlevel}
        client.publishEvent(eventId="status", msgFormat="json", data=myData, qos=0,
onPublish=None)
        #print("Published data Successfully: %s" % myData)
        print("BIN IS FULL!!!!",myData)
        client.commandCallback = myCommandCallback
        time.sleep(2)
    else:
        print("BIN IS IN NORMAL LEVEL")
        time.sleep(2)
client.disconnect()
```

Node red dashboard





IBM platform output

Device ID	Status	Device Type	Class ID	Date Added	Descriptive Location
252525	Connected	pythoncode	Device	Nov 5, 2022 8:24 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	
status	{"latitude":34.774685728993376,"longitude":8...	json	a few seconds ago	
status	{"latitude":35.60752056924323,"longitude":95....	json	a few seconds ago	
status	{"latitude":78.65043687648856,"longitude":92....	json	a few seconds ago	
status	{"latitude":28.208973833225503,"longitude":9...	json	a minute ago	
status	{"latitude":91.76062822749593,"longitude":93....	json	a minute ago	