Project Screenshots

Predictive maintenance of industrial motors

# Code:

import wiotp.sdk.device

import time

import random

myConfig = {

"identity": {

"orgId": "vadk7x",

"typeId": "data",

"deviceId":"3456"

},

"auth": {

"token": "12345678"

}

}

def myCommandCallback(cmd):

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

i=cmd.data['command']

if i=='motoron':

print("Motor is on")

elif i=='motoroff':

print("motor is off")

elif i=='lighton':

print("light is on")

elif i=='lightoff':

print("light is off")

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

client.connect()

while True:

temp=random.randint(16,50)

hum=random.randint(10,100)

vib = random.randint(50,100)

curr = random.randint(5,30)

myData={'temperature':temp, 'humidity':hum,'vibration':vib , 'current':curr}

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()

Python output:



















