

Team id: PNT2022TMID04566

Project name: Gas leakage monitoring and Alerting system for industries

Connect to IBM using python script and getting the information in the application developed using MIT app inventor:

```
Python 3.7.0 Shell
File Edit Shell Debug Options Window Help
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: C:/Users/admin/Desktop/ibm python code.py =====
2022-11-18 13:03:14,514 ibmiotf.device.Client INFO Connected successfully: d:19xuti:abcd:1234
Published Temperature = 90 C Humidity = 72 % to IBM Watson
Published Temperature = 94 C Humidity = 82 % to IBM Watson
|
```

IBM Watson IoT Platform

1 item selected Cancel

Device ID	Status	Device Type	Class ID	Date Added
1	Disconnected	abcd	Device	Nov 18, 2022 9:02 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
event_1	{"randomNumber":94,"temp":5,"Humid":96}	json	a few seconds ago
event_1	{"randomNumber":35,"temp":19,"Humid":105}	json	a few seconds ago

1 Simulation running

project planning.docx Brainstorm.docx Brainstorm.pdf Show all

26°C Partly cloudy Search 21:12 18-11-2022

node-red-javqb-2022-11-18.eu-gb.mybluemix.net/red/#flow/1801c3ec9f4514ed

Node-RED

filter nodes

comment

function

function

switch

change

range

template

delay

trigger

filter

OpenWhisk

Edit function node

Delete

Cancel

Done

Properties

Name

Humid

Setup

On Start

On Message

On Stop

1 msg.payload=msg.payload.temp

2 return msg;

Enabled

debug

all nodes

all

Object

{ randomNumber: 49, temp: 45, Humid: 103 }

11/18/2022, 10:03:05 PM node: f2f2649a.0d0d98

iot-2/type/abcd/id/1/evt/event_1/fmt/json : msg.payload :

Object

{ randomNumber: 33, temp: 8, Humid: 101 }

11/18/2022, 10:04:10 PM node: f2f2649a.0d0d98

iot-2/type/abcd/id/1/evt/event_1/fmt/json : msg.payload :

Object

{ randomNumber: 10, temp: 4, Humid: 105 }

11/18/2022, 10:05:10 PM node: f2f2649a.0d0d98

iot-2/type/abcd/id/1/evt/event_1/fmt/json : msg.payload :

Object

{ randomNumber: 15, temp: 4, Humid: 104 }

project planning.docx

Brainstorm.docx

Brainstorm.pdf

Show all

25°C

Partly cloudy

Search

ENG

IN

23:20

18-11-2022

node-red-javqb-2022-11-18.eu-gb.mybluemix.net/red/#flow/1801c3ec9f4514ed

Node-RED

filter nodes

Flow 1

common

inject

debug

complete

catch

status

link in

link call

link out

comment

function

function

IBM IoT

connected

msg.payload

Temp

Humid

Moisture

debug

all nodes

all

11/19/2022, 10:40:03 AM node: f2f2649a.0d0d98

iot-2/type/abcd/id/1/evt/event_1/fmt/json : msg.payload :

Object

{ randomNumber: 76, temp: 72, Humid: 26 }

11/19/2022, 10:40:03 AM node: Temp

function : (error)

"ReferenceError: ms is not defined (line 1, col 1)"

11/19/2022, 10:40:03 AM node: f2f2649a.0d0d98

iot-2/type/abcd/id/1/evt/event_1/fmt/json : msg.payload :

number

72

11/19/2022, 10:40:03 AM node: f2f2649a.0d0d98

iot-2/type/abcd/id/1/evt/event_1/fmt/json : msg.payload :

number

72

Search

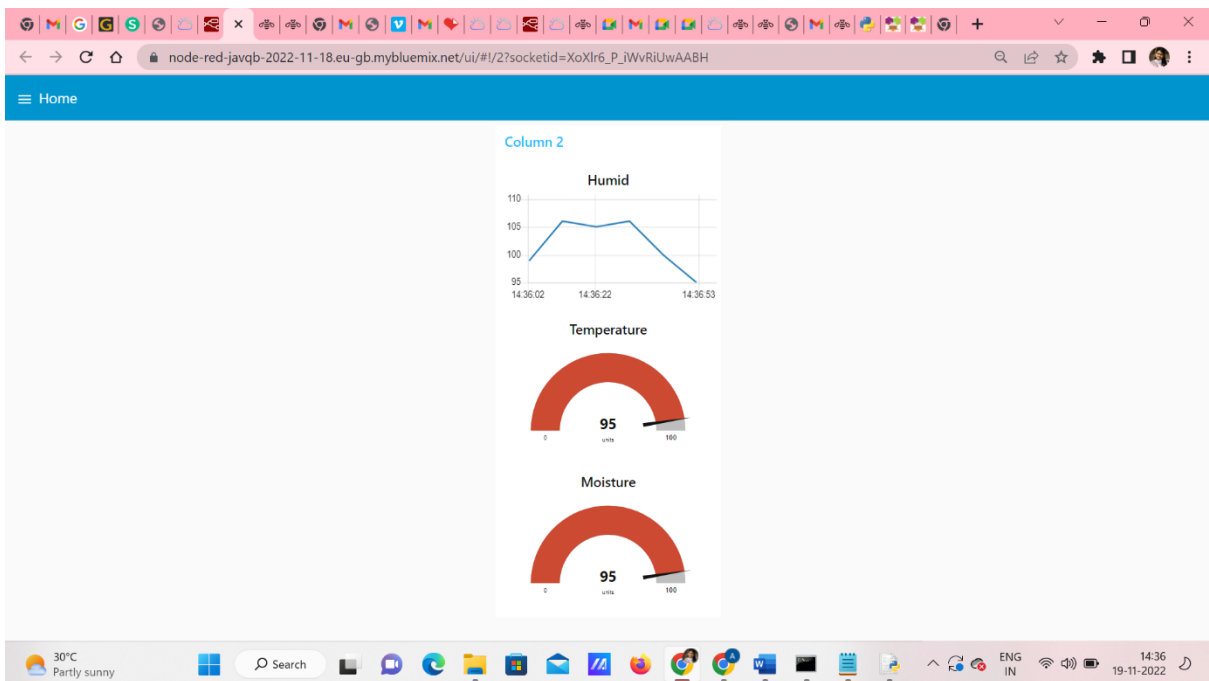
ENG

IN

10:40

19-11-2022

```
Python 3.7.0 Shell
File Edit Shell Debug Options Window Help
Published Temperature = 102 C Humidity = 95 % to IBM Watson
Published Temperature = 100 C Humidity = 61 % to IBM Watson
Published Temperature = 90 C Humidity = 81 % to IBM Watson
Published Temperature = 102 C Humidity = 95 % to IBM Watson
Command received: lightoff
led is off
Published Temperature = 103 C Humidity = 60 % to IBM Watson
Published Temperature = 94 C Humidity = 90 % to IBM Watson
Published Temperature = 105 C Humidity = 71 % to IBM Watson
Published Temperature = 103 C Humidity = 98 % to IBM Watson
Published Temperature = 91 C Humidity = 64 % to IBM Watson
Published Temperature = 98 C Humidity = 66 % to IBM Watson
Published Temperature = 90 C Humidity = 86 % to IBM Watson
Published Temperature = 95 C Humidity = 92 % to IBM Watson
Published Temperature = 102 C Humidity = 67 % to IBM Watson
Published Temperature = 92 C Humidity = 77 % to IBM Watson
Published Temperature = 105 C Humidity = 100 % to IBM Watson
Published Temperature = 109 C Humidity = 97 % to IBM Watson
Published Temperature = 102 C Humidity = 98 % to IBM Watson
Published Temperature = 102 C Humidity = 100 % to IBM Watson
Published Temperature = 94 C Humidity = 64 % to IBM Watson
Published Temperature = 94 C Humidity = 87 % to IBM Watson
Published Temperature = 110 C Humidity = 99 % to IBM Watson
Published Temperature = 95 C Humidity = 99 % to IBM Watson
Command received: lighton
led is on
Command received: lightoff
led is off
Command received: lighton
led is on
Published Temperature = 97 C Humidity = 96 % to IBM Watson
Command received: lightoff
led is off
Command received: lighton
led is on
Published Temperature = 102 C Humidity = 70 % to IBM Watson
Published Temperature = 90 C Humidity = 86 % to IBM Watson
Published Temperature = 90 C Humidity = 68 % to IBM Watson
Published Temperature = 97 C Humidity = 62 % to IBM Watson
Published Temperature = 108 C Humidity = 65 % to IBM Watson
Published Temperature = 93 C Humidity = 74 % to IBM Watson
Command received: lighton
```



Sensor Data

Waste Level: 106

Level of Harmfulness: 71

Switch Board

Alarm ON

Alarm OFF