

CREATE AN HTTP REQUEST TO COMMUNICATE WITH MOBILE APP

Team ID	PNT2022TMID33019
Project Name	Real-Time River Water Quality Monitoring and Control System
Maximum Marks	4 Marks

In this document, we have attached the screenshots of create an HTTP Requests to communicate with mobile app

Node-RED

Deploy

filter nodes

Flow

common

inject

debug

complete

catch

status

link in

link call

link out

comment

function

function

User Settings

Close

View

Nodes

Install

Palette

Keyboard

ibmi

4 / 4114

node-red-contrib-scx-ibmiotapp

IoT Application Node-RED node for the Registered and Quickstart flows in IBM Watson IoT Platform

0.0.49 5 years, 1 month ago

installed

node-red-yanfaz-iot

IoT Application Node-RED node for the Registered and Quickstart flows in IBM Watson IoT Platform

0.0.51 6 years, 4 months ago

conflict

node-red-contrib-db2-for-i

A Node-RED node to access a IBM Db2 for i database

0.2.1 2 years, 5 months ago

install

node-red-contrib-mobius-flow-cloud-connectors

debug

current flow

all

17/11/2022, 10:17:56 am node: b9291bf6569ebfd8
iot-2/type/rasperry/id/ras123/evl/status/fmt/json :
msg.payload : undefined
undefined

17/11/2022, 10:17:58 am node: b9291bf6569ebfd8
iot-2/type/rasperry/id/ras123/evl/status/fmt/json :
msg.payload : Object
{ temperature: 114, humidity: 64 }

17/11/2022, 10:17:58 am node: b9291bf6569ebfd8
iot-2/type/rasperry/id/ras123/evl/status/fmt/json :
msg.payload : undefined
undefined

17/11/2022, 10:17:58 am node: b9291bf6569ebfd8
iot-2/type/rasperry/id/ras123/evl/status/fmt/json :
msg.payload : number
64

17/11/2022, 10:17:58 am node: b9291bf6569ebfd8
iot-2/type/rasperry/id/ras123/evl/status/fmt/json :
msg.payload : undefined
undefined

Node-RED

filter nodes

input

output

sequence

ibmiot in

OpenWhisk

ibmiot out

split

join

sort

batch

Flow 2

Flow 3

IBM IoT

connected

temp

humidity

randomNumber

msg.payload

temperature

humidity

moisture

debug

current flow

all

17/11/2022, 10:18:49 am node: b9291bf6569ebfd8
iot-2/type/raspberry/id/ras123/evt/status/fmt/json :
msg.payload : undefined
undefined

17/11/2022, 10:18:51 am node: b9291bf6569ebfd8
iot-2/type/raspberry/id/ras123/evt/status/fmt/json :
msg.payload : Object
{ temperature: 19, humidity: 85 }

17/11/2022, 10:18:51 am node: b9291bf6569ebfd8
iot-2/type/raspberry/id/ras123/evt/status/fmt/json :
msg.payload : undefined
undefined

17/11/2022, 10:18:51 am node: b9291bf6569ebfd8
iot-2/type/raspberry/id/ras123/evt/status/fmt/json :
msg.payload : number
85

17/11/2022, 10:18:51 am node: b9291bf6569ebfd8
iot-2/type/raspberry/id/ras123/evt/status/fmt/json :
msg.payload : undefined
undefined

Node-RED

Deploy

filter nodes

Flow 2

Flow 3

+

debug

current flow all

input

output

sequence

- split
- join
- sort
- batch

```
graph LR; IoT[IBM IoT] --> temp[temp]; IoT --> humidity[humidity]; IoT --> randomNumber[randomNumber]; IoT --> msgPayload[msg.payload]; temp --> temperature[temperature]; humidity --> humidity_out[humidity]; randomNumber --> moisture[moisture]; msgPayload --> msgPayload;
```

17/11/2022, 10:18:49 am node: b9291bf6569ebfd8
iot-2/type/raspberry/id/ras123/evt/status/fmt/json :
msg.payload : undefined
undefined

17/11/2022, 10:18:51 am node: b9291bf6569ebfd8
iot-2/type/raspberry/id/ras123/evt/status/fmt/json :
msg.payload : Object
{ temperature: 19, humidity: 85 }

17/11/2022, 10:18:51 am node: b9291bf6569ebfd8
iot-2/type/raspberry/id/ras123/evt/status/fmt/json :
msg.payload : undefined
undefined

17/11/2022, 10:18:51 am node: b9291bf6569ebfd8
iot-2/type/raspberry/id/ras123/evt/status/fmt/json :
msg.payload : number
85

17/11/2022, 10:18:51 am node: b9291bf6569ebfd8
iot-2/type/raspberry/id/ras123/evt/status/fmt/json :
msg.payload : undefined
undefined

Command Prompt

Microsoft Windows [Version 10.0.22000.1219]
(c) Microsoft Corporation. All rights reserved.

C:\Users\infin>pip install wiotp-sdk

Requirement already satisfied: wiotp-sdk in c:\users\infin\appdata\local\programs\python\python37\lib\site-packages (0.11.0)
Requirement already satisfied: iso8601>=0.1.12 in c:\users\infin\appdata\local\programs\python\python37\lib\site-packages (from wiotp-sdk) (1.1.0)
Requirement already satisfied: pytz>=2018.9 in c:\users\infin\appdata\local\programs\python\python37\lib\site-packages (from wiotp-sdk) (2022.6)
Requirement already satisfied: pyyaml>=3.13 in c:\users\infin\appdata\local\programs\python\python37\lib\site-packages (from wiotp-sdk) (6.0)
Requirement already satisfied: paho-mqtt>=1.5.0 in c:\users\infin\appdata\local\programs\python\python37\lib\site-packages (from wiotp-sdk) (1.6.1)
Requirement already satisfied: requests>=2.21.0 in c:\users\infin\appdata\local\programs\python\python37\lib\site-packages (from wiotp-sdk) (2.28.1)
Requirement already satisfied: requests_toolbelt>=0.8.0 in c:\users\infin\appdata\local\programs\python\python37\lib\site-packages (from wiotp-sdk) (0.10.1)
Requirement already satisfied: idna<4,>=2.5 in c:\users\infin\appdata\local\programs\python\python37\lib\site-packages (from requests>=2.21.0->wiotp-sdk) (3.4)
Requirement already satisfied: urllib3<1.27,>=1.21.1 in c:\users\infin\appdata\local\programs\python\python37\lib\site-packages (from requests>=2.21.0->wiotp-sdk) (1.26.12)

Requirement already satisfied: certifi>=2017.4.17 in c:\users\infin\appdata\local\programs\python\python37\lib\site-packages (from requests>=2.21.0->wiotp-sdk) (2022.9.24)

Requirement already satisfied: charset-normalizer<3,>=2 in c:\users\infin\appdata\local\programs\python\python37\lib\site-packages (from requests>=2.21.0->wiotp-sdk) (2.1.1)

You are using pip version 10.0.1, however version 22.3.1 is available.

You should consider upgrading via the 'python -m pip install --upgrade pip' command.

C:\Users\infin>pip install ibmiotf

Requirement already satisfied: ibmiotf in c:\users\infin\appdata\local\programs\python\python37\lib\site-packages (0.4.0)
Requirement already satisfied: iso8601>=0.1.12 in c:\users\infin\appdata\local\programs\python\python37\lib\site-packages (from ibmiotf) (1.1.0)
Requirement already satisfied: pytz>=2017.3 in c:\users\infin\appdata\local\programs\python\python37\lib\site-packages (from ibmiotf) (2022.6)
Requirement already satisfied: paho-mqtt>=1.3.1 in c:\users\infin\appdata\local\programs\python\python37\lib\site-packages (from ibmiotf) (1.6.1)
Requirement already satisfied: requests>=2.18.4 in c:\users\infin\appdata\local\programs\python\python37\lib\site-packages (from ibmiotf) (2.28.1)
Requirement already satisfied: requests_toolbelt>=0.8.0 in c:\users\infin\appdata\local\programs\python\python37\lib\site-packages (from ibmiotf) (0.10.1)
Requirement already satisfied: charset-normalizer<3,>=2 in c:\users\infin\appdata\local\programs\python\python37\lib\site-packages (from requests>=2.18.4->ibmiotf) (2.1.1)
Requirement already satisfied: certifi>=2017.4.17 in c:\users\infin\appdata\local\programs\python\python37\lib\site-packages (from requests>=2.18.4->ibmiotf) (2022.9.24)
Requirement already satisfied: urllib3<1.27,>=1.21.1 in c:\users\infin\appdata\local\programs\python\python37\lib\site-packages (from requests>=2.18.4->ibmiotf) (1.26.12)
Requirement already satisfied: idna<4,>=2.5 in c:\users\infin\appdata\local\programs\python\python37\lib\site-packages (from requests>=2.18.4->ibmiotf) (3.4)

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C:\Users\infin>