

node-red-hpzoe-2022-11-15.eu-gb.mybluemix.net/red/#flow/061a2166fca0a7d8

Node-RED

Flow 1

common

- inject
- debug
- complete
- catch
- status
- link in
- link call
- link out
- comment

function

- function
- switch
- change

Flow 1 Diagram:

```
graph LR
    IBM1[IBM IoT] --> temp[temperature node]
    IBM1 --> water[water]
    IBM1 --> msg_payload1[msg.payload]
    IBM1 --> humidity[Humidity]
    IBM1 --> pressure[pressure]
    temp --> Temperature[Temperature]
    water --> water_out[water]
    msg_payload1 --> Humidity
    humidity --> Humidity
    pressure --> pressure_out[pressure]
    GET[/get/ sensor] --> httpfunction[httpfunction node]
    httpfunction --> http[http]
    on[on] --> msg_payload2[msg.payload]
    off[off] --> msg_payload2
    msg_payload2 --> IBM2[IBM IoT]
```

debug

Pressure: 61, water: 31 }

11/18/2022, 4:01:59 PM node: a834c162a085d874
iot-2type:NodeMCU/d09222ev/event_1/rmt/json
msg payload: Object

{ Temperature: 41, Humidity: 10, Pressure: 26, water: 9 }

11/19/2022, 4:02:02 PM node: a834c162a085d874
iot-2type:NodeMCU/d09222ev/event_1/rmt/json
msg payload: Object

{ Temperature: 48, Humidity: 64, Pressure: 83, water: 92 }

11/19/2022, 4:02:05 PM node: a834c162a085d874
iot-2type:NodeMCU/d09222ev/event_1/rmt/json
msg payload: Object

{ Temperature: 49, Humidity: 41, Pressure: 22, water: 93 }

11/19/2022, 4:02:08 PM node: a834c162a085d874
iot-2type:NodeMCU/d09222ev/event_1/rmt/json
msg payload: Object

{ Temperature: 26, Humidity: 82, Pressure: 28, water: 69 }

11/19/2022, 4:02:11 PM node: a834c162a085d874
iot-2type:NodeMCU/d09222ev/event_1/rmt/json
msg payload: Object

{ Temperature: 14, Humidity: 22, Pressure: 97, water: 28 }

29°C Haze

Search

ENG IN

16:02 18-11-2022

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Node-RED

Flow 1

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ibmiot

connected

[get]/sensor

httpfunction node

on

off

msg.payload

Edit ibmiot in node

Delete Cancel Done

Properties

- Authentication: API Key
- API Key: 13c7f84adab84948
- Input Type: Device Event
- Device Type: ☐ All or ☐ Nodemcu
- Device Id: ☐ All or ☐ 0922
- Event: ☒ All or ☐ event type e.g. status
- Format: ☐ All or ☐ json
- QoS: 0
- Name: IBM IoT
- Service: registered

Use the Input Type property to configure this node to receive Events

Enabled

debug

all nodes

all

Pressure: 40, water: 71 }

11/18/2022, 4:01:22 PM node: a834c162a085d874
iot-2?type=Nodemcu/id/0922/event_1/fmt/json
msg.payload: Object

{ Temperature: 92, Humidity: 64, Pressure: 43, water: 51 }

11/18/2022, 4:01:24 PM node: a834c162a085d874
iot-2?type=Nodemcu/id/0922/event_1/fmt/json
msg.payload: Object

{ Temperature: 5, Humidity: 92, Pressure: 73, water: 14 }

11/18/2022, 4:01:27 PM node: a834c162a085d874
iot-2?type=Nodemcu/id/0922/event_1/fmt/json
msg.payload: Object

{ Temperature: 21, Humidity: 6, Pressure: 85, water: 69 }

11/18/2022, 4:01:30 PM node: a834c162a085d874
iot-2?type=Nodemcu/id/0922/event_1/fmt/json
msg.payload: Object

{ Temperature: 65, Humidity: 93, Pressure: 65, water: 3 }

11/18/2022, 4:01:35 PM node: a834c162a085d874
iot-2?type=Nodemcu/id/0922/event_1/fmt/json
msg.payload: Object

{ Temperature: 35, Humidity: 5, Pressure: 83, water: 1 }

29°C Haze

Search

ENG IN

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Node-RED

Flow 1

common

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function

- function
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- change

IBM IoT

connected

[get]/sensor

http

on

off

msg.payload

Edit function node

Properties

Name: httpfunction node

Setup On Start On Message On Stop

```
1 msg.payload={"Temperature":global.get("t"),"Humidity":global.get("h")}
2 return msg;
```

debug

Pressure: 65, water: 3 }

11/18/2022, 4:01:35 PM node: a834c162a085d874
iot-2type:NodeMCU/id0922/ev/event_1/rmt/json
msg.payload: Object

{ Temperature: 35, Humidity: 5, Pressure: 83, water: 1 }

11/19/2022, 4:01:38 PM node: a834c162a085d874
iot-2type:NodeMCU/id0922/ev/event_1/rmt/json
msg.payload: Object

{ Temperature: 23, Humidity: 14, Pressure: 99, water: 65 }

11/19/2022, 4:01:41 PM node: a834c162a085d874
iot-2type:NodeMCU/id0922/ev/event_1/rmt/json
msg.payload: Object

{ Temperature: 96, Humidity: 58, Pressure: 50, water: 21 }

11/19/2022, 4:01:44 PM node: a834c162a085d874
iot-2type:NodeMCU/id0922/ev/event_1/rmt/json
msg.payload: Object

{ Temperature: 77, Humidity: 59, Pressure: 4, water: 16 }

11/19/2022, 4:01:47 PM node: a834c162a085d874
iot-2type:NodeMCU/id0922/ev/event_1/rmt/json
msg.payload: Object

{ Temperature: 87, Humidity: 13, Pressure: 59, water: 97 }

29°C Haze

Search

ENG IN

16:01 18-11-2022

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Node-RED

Flow 1

filter nodes

common

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function

- function
- switch
- change

ibmiot out

connected

[get]/sensor

httpfunction node

on

off

msg.payload

Edit ibmiot out node

Delete Cancel Done

Properties

- Authentication: API Key
- API Key: 13c7f84adab84948
- Output Type: Device Command
- Device Type: Nodemcu
- Device Id: 0922
- Command Type: command
- Format: String
- Data: 1
- QoS: 0
- Name: IBM IoT
- Service: registered

Enabled

debug

all nodes

all

Pressure: 50, water: 21 }

11/19/2022, 4:01:44 PM node: a834c162a085d874
iot-2type:Nodemcu/id:0922/event_1/rmt/json
msg.payload: Object
{ Temperature: 77, Humidity: 59, Pressure: 4, water: 16 }

11/19/2022, 4:01:47 PM node: a834c162a085d874
iot-2type:Nodemcu/id:0922/event_1/rmt/json
msg.payload: Object
{ Temperature: 87, Humidity: 13, Pressure: 59, water: 97 }

11/19/2022, 4:01:50 PM node: a834c162a085d874
iot-2type:Nodemcu/id:0922/event_1/rmt/json
msg.payload: Object
{ Temperature: 6, Humidity: 9, Pressure: 4, water: 4 }

11/19/2022, 4:01:53 PM node: a834c162a085d874
iot-2type:Nodemcu/id:0922/event_1/rmt/json
msg.payload: Object
{ Temperature: 95, Humidity: 56, Pressure: 79, water: 57 }

11/19/2022, 4:01:56 PM node: a834c162a085d874
iot-2type:Nodemcu/id:0922/event_1/rmt/json
msg.payload: Object
{ Temperature: 86, Humidity: 40, Pressure: 61, water: 31 }

29°C Haze

Search

ENG IN

16:01 18-11-2022