

DEVELOP A WEB APPLICATION USING NODE-RED SERVICE

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Date	18 November 2022
Team ID	PNT2022TMID10108
Project Name	Industry-specific intelligent fire management system
Maximum Marks	8 Marks

Node-RED

Deploy

filter nodes

Flow 1

common

inject

debug

complete

catch

status

link in

link call

link out

comment

function

switch

Test

msg payload

debug

all nodes

all

11/5/2022, 3:02:28 PM node: f2f2649a-0d0d98

msg.payload : string[15]

"Hello Node-RED!"

11/5/2022, 3:02:38 PM node: f2f2649a-0d0d98

msg.payload : string[15]

"Hello Node-RED!"

11/5/2022, 3:02:48 PM node: f2f2649a-0d0d98

msg.payload : string[15]

"Hello Node-RED!"

11/5/2022, 3:02:58 PM node: f2f2649a-0d0d98

msg.payload : string[15]

"Hello Node-RED!"

11/5/2022, 3:03:08 PM node: f2f2649a-0d0d98

msg.payload : string[15]

"Hello Node-RED!"

11/5/2022, 3:03:18 PM node: f2f2649a-0d0d98

msg.payload : string[15]

"Hello Node-RED!"

11/5/2022, 3:03:28 PM node: f2f2649a-0d0d98

msg.payload : string[15]

"Hello Node-RED!"

Node-RED interface showing a flow named "Flow 1". The flow consists of two nodes: "IBM IoT" (input) and "msg payload" (output), connected by a line. The "IBM IoT" node is marked as "connected".

The left sidebar shows the "filter nodes" search bar and a list of nodes categorized by type:

- tcp in
- tcp out
- tcp request
- udp in
- udp out
- input
 - ibmiot in
- output
 - OpenWhisk
 - ibmiot out
- sequence
 - split

The right sidebar shows the "debug" console with a list of messages:

```
11/5/2022, 3:31:22 PM node: f2f2649a.0d0d98
iot-2/type/123/id/123_2/evt/eventtest/mtl/json :
msg payload : Object
  {
    randomNumber: 17, temp: 33, hum: 84
  }

11/5/2022, 3:31:22 PM node: f2f2649a.0d0d98
iot-2/type/123/id/123_2/evt/eventtest/mtl/json :
msg payload : Object
  {
    randomNumber: 36, temp: 37, hum: 85
  }

11/5/2022, 3:31:22 PM node: f2f2649a.0d0d98
iot-2/type/123/id/123_456/evt/eventtest/mtl/json :
msg payload : Object
  {
    randomNumber: 33, temp: 43, hum: 85
  }

11/5/2022, 3:31:22 PM node: f2f2649a.0d0d98
iot-2/type/123/id/123_3/evt/eventtest/mtl/json :
msg payload : Object
  {
    randomNumber: 87, temp: 61, hum: 97
  }

11/5/2022, 3:31:22 PM node: f2f2649a.0d0d98
iot-2/type/123/id/123_1/evt/eventtest/mtl/json :
msg payload : Object
  {
    randomNumber: 66, temp: 44, hum: 81
  }
```

Node-RED

Deploy

filter nodes

Flow 1

common

inject

debug

complete

catch

status

link in

link call

link out

comment

function

function

switch

IBM IoT

connected

Temp

Humidity

Moisture

msg payload

debug

all nodes

all

94

11/5/2022, 3:52:00 PM node: f2f2649a.0d0d96
iot-2/type/123/id/123_3/evt/eventtest/!mt/json :
msg payload : number

81

11/5/2022, 3:52:01 PM node: f2f2649a.0d0d96
iot-2/type/123/id/123_2/evt/eventtest/!mt/json :
msg payload : Object

> { randomNumber: 19, temp: 13, hum: 100 }

11/5/2022, 3:52:01 PM node: f2f2649a.0d0d96
iot-2/type/123/id/123_2/evt/eventtest/!mt/json :
msg payload : number

13

11/5/2022, 3:52:01 PM node: f2f2649a.0d0d96
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Humidity

Moisture

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