

## DEVELOP A WEB APPLICATION USING NODE-RED SERVICE

### DEVELOP THE WEB APPLICATION USING NODE-RED SERVICE

<b>Date</b>	15 November 2022
<b>Team ID</b>	PNT2022TMID30870
<b>Project Name</b>	Industry-specific intelligent fire management system
<b>Maximum Marks</b>	8 Marks

Node-RED

Deploy

filter nodes

Flow 1

common

inject

debug

complete

catch

status

link in

link call

link out

comment

function

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

Deploy

filter nodes

tcp in

tcp out

tcp request

udp in

udp out

input

ibmiot in

output

OpenWhisk

ibmiot out

sequence

split

Flow 1

IBM IoT

connected

msg payload

debug

all nodes

all

11/5/2022, 3:31:22 PM node: f2f2649a.0d0d98  
iot-2/type/123/id/123\_2/evt/eventtest/mml/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\_456/evt/eventtest/mml/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\_3/evt/eventtest/mml/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\_1/evt/eventtest/mml/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/mml/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

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11/5/2022, 3:52:00 PM node: f2f2649a.0d0d98  
iot-2/type/123/id/123\_3/evt/eventtest/mt/json :  
msg.payload : number

81

11/5/2022, 3:52:01 PM node: f2f2649a.0d0d98  
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.0d0d98  
iot-2/type/123/id/123\_2/evt/eventtest/mt/json :  
msg.payload : number

13

11/5/2022, 3:52:01 PM node: f2f2649a.0d0d98  
iot-2/type/123/id/123\_2/evt/eventtest/mt/json :  
msg.payload : number

100

11/5/2022, 3:52:01 PM node: f2f2649a.0d0d98  
iot-2/type/123/id/123\_2/evt/eventtest/mt/json :  
msg.payload : number

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