

# DEVELOP A WEB APPLICATION USING NODE-RED SERVICE

Domain	IOT Based and Node-RED
Team ID	PNT2022TMID50107
Project Name	Industry-specific intelligent fire management system
Maximum Mark	8 Mark

The screenshot displays the Node-RED web interface in a browser. The address bar shows the URL: `node-red-xhyfy-2022-11-16.eu-gb.mybluemix.net/red/#flow/b2de132a980be02a`. The interface includes a left sidebar with a 'filter nodes' search bar and two categories of nodes: 'common' (inject, debug, complete, catch, status, link in, link call, link out, comment) and 'function' (function). The main workspace, titled 'Flow 1', contains a flow with an 'inject' node connected to a 'msg.payload' node. The right sidebar features a 'debug' console showing a log of messages. The messages are as follows:

Timestamp	Node ID	msg.payload
11/17/2022, 11:54:43 AM	node: f2f2649a.0d0d98	string[27]
		"Hello Guys Nice to Meet You"
11/17/2022, 11:54:45 AM	node: f2f2649a.0d0d98	string[27]
		"Hello Guys Nice to Meet You"
11/17/2022, 11:54:50 AM	node: f2f2649a.0d0d98	string[27]
		"Hello Guys Nice to Meet You"
11/17/2022, 11:54:53 AM	node: f2f2649a.0d0d98	string[27]
		"Hello Guys Nice to Meet You"
11/17/2022, 11:55:03 AM	node: f2f2649a.0d0d98	string[27]
		"Hello Guys Nice to Meet You"

The bottom of the image shows the Windows taskbar with the search bar and various application icons. The system tray indicates a temperature of 29°C, the date 17-11-2022, and the time 11:55.

node-red-xhyfy-2022-11-16.eu-gb.mybluemix.net/red/#flow/b2de132a980be02a

Node-RED

Flow 1

debug

all nodes

all

temperature: -26, firealert: -2

11/17/2022, 11:24:24 AM node: f2f2649a.0d0d98

iot-2/type/Temperature/id/12345/evt/event\_1/fmt/json :

msg.payload : Object

{ temperature: 74, firealert: -16 }

11/17/2022, 11:24:25 AM node: f2f2649a.0d0d98

iot-2/type/Temperature/id/12345/evt/event\_1/fmt/json :

msg.payload : Object

{ temperature: 83, firealert: -30 }

11/17/2022, 11:24:25 AM node: f2f2649a.0d0d98

iot-2/type/Temperature/id/12345/evt/event\_1/fmt/json :

msg.payload : Object

{ temperature: -7, firealert: 4 }

11/17/2022, 11:24:28 AM node: f2f2649a.0d0d98

iot-2/type/Temperature/id/12345/evt/event\_1/fmt/json :

msg.payload : Object

{ temperature: 80, firealert: 6 }

11/17/2022, 11:24:33 AM node: f2f2649a.0d0d98

iot-2/type/Temperature/id/12345/evt/event\_1/fmt/json :

msg.payload : Object

{ temperature: -24, firealert: 71 }

ibmiot in

IBM IoT

connected

msg.payload

Db2 in

cloudant in

dashDB in

Type here to search

25°C

11:25

17-11-2022

node-red-xhyfy-2022-11-16.eu-gb.mybluemix.net/red/#flow/b2de132a980be02a

Node-RED

Flow 1

common

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

function

- function

IBM IoT

temperature

firealart

msg.payload

debug

all nodes

all

```
11/17/2022, 11:48:59 AM node: f2f2649a.0d0d98
iot-2/type/Temperature/id/12345/evt/event_1/fmt/json :
msg.payload : Object
  { temperature: -6, firealart: 8 }

11/17/2022, 11:49:00 AM node: f2f2649a.0d0d98
iot-2/type/Temperature/id/12345/evt/event_1/fmt/json :
msg.payload : number
-6

11/17/2022, 11:49:01 AM node: f2f2649a.0d0d98
iot-2/type/Temperature/id/12345/evt/event_1/fmt/json :
msg.payload : number
8

11/17/2022, 11:49:02 AM node: f2f2649a.0d0d98
iot-2/type/Temperature/id/12345/evt/event_1/fmt/json :
msg.payload : Object
  { temperature: -17, firealart: -25 }

11/17/2022, 11:49:03 AM node: f2f2649a.0d0d98
iot-2/type/Temperature/id/12345/evt/event_1/fmt/json :
msg.payload : number
-17
```

Type here to search

29°C

11:50

17-11-2022