

# 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 node palette containing various common and function nodes. The main workspace, titled 'Flow 1', shows a flow with two nodes: an 'inject' node (blue) and a 'msg.payload' node (green), connected by a wire. The right sidebar features a 'debug' console displaying a log of messages. The messages are as follows:

Timestamp	Node ID	msg.payload
11/17/2022, 11:54:43 AM	node: f272645a.0d0d96	"Hello Guys Nice to Meet You"
11/17/2022, 11:54:45 AM	node: f272645a.0d0d96	"Hello Guys Nice to Meet You"
11/17/2022, 11:54:50 AM	node: f272645a.0d0d96	"Hello Guys Nice to Meet You"
11/17/2022, 11:54:53 AM	node: f272645a.0d0d96	"Hello Guys Nice to Meet You"
11/17/2022, 11:55:03 AM	node: f272645a.0d0d96	"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-0d0e-98

ict-2/hype/Temperature/id/12345/event/event\_1/fmi/json :

msg.payload : Object

temperature: 74, fireAlert: -16

11/17/2022, 11:24:25 AM node: f2f2649a-0d0e-98

ict-2/hype/Temperature/id/12345/event/event\_1/fmi/json :

msg.payload : Object

temperature: 83, fireAlert: -30

11/17/2022, 11:24:25 AM node: f2f2649a-0d0e-98

ict-2/hype/Temperature/id/12345/event/event\_1/fmi/json :

msg.payload : Object

temperature: -7, fireAlert: 4

11/17/2022, 11:24:28 AM node: f2f2649a-0d0e-98

ict-2/hype/Temperature/id/12345/event/event\_1/fmi/json :

msg.payload : Object

temperature: 80, fireAlert: 6

11/17/2022, 11:24:33 AM node: f2f2649a-0d0e-98

ict-2/hype/Temperature/id/12345/event/event\_1/fmi/json :

msg.payload : Object

temperature: -24, fireAlert: 71

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

temperature

firealarm

msg.payload

debug

all nodes

all

11/17/2022, 11:48:59 AM node: f2f2645a-0d0e98  
ict-2/type/Temperature/id/12345/event/event\_1/flight/json :  
msg.payload: Object  
>{ temperature: -6, firealarm: 8 }

11/17/2022, 11:49:00 AM node: f2f2645a-0d0e98  
ict-2/type/Temperature/id/12345/event/event\_1/flight/json :  
msg.payload: number  
-6

11/17/2022, 11:49:01 AM node: f2f2645a-0d0e98  
ict-2/type/Temperature/id/12345/event/event\_1/flight/json :  
msg.payload: number  
8

11/17/2022, 11:49:02 AM node: f2f2645a-0d0e98  
ict-2/type/Temperature/id/12345/event/event\_1/flight/json :  
msg.payload: Object  
{ temperature: -17, firealarm: -25 }

11/17/2022, 11:49:03 AM node: f2f2645a-0d0e98  
ict-2/type/Temperature/id/12345/event/event\_1/flight/json :  
msg.payload: number  
-17

Type here to search

29°C

11:50  
17-11-2022