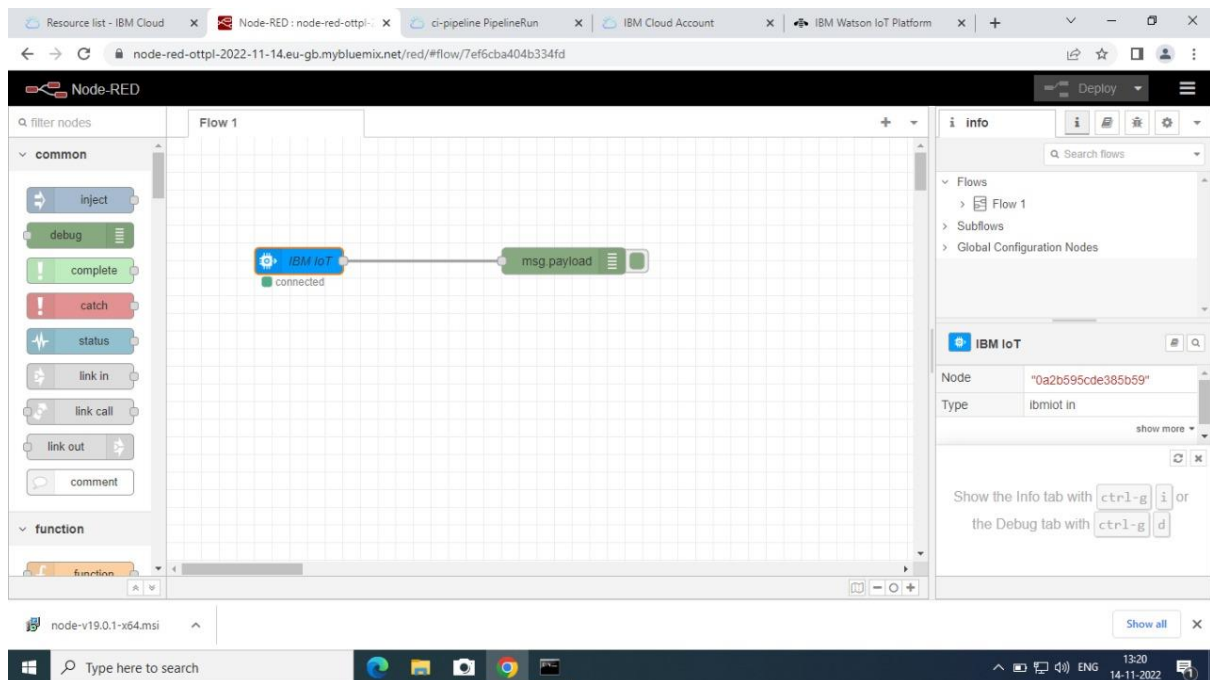


DEVELOP THE WEB APPLICATION USING NODE-RED

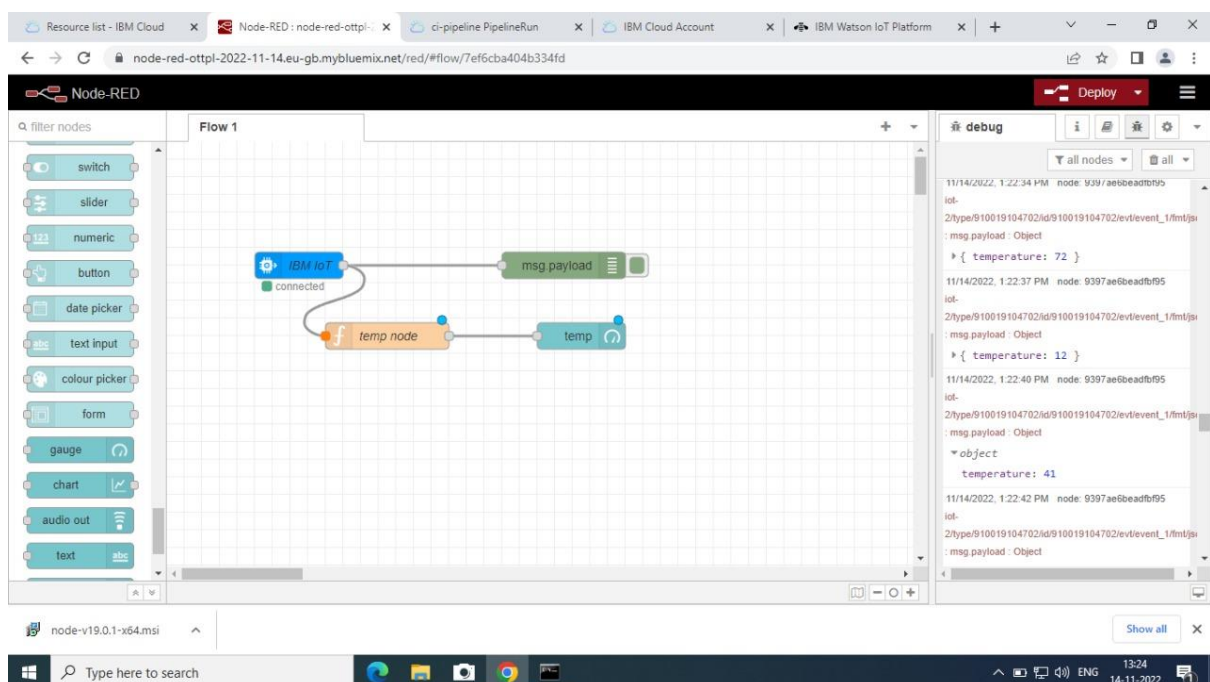
Date	18 NOVEMBER 2022
TeamID	PNT2022TMID00837
ProjectName	Industry-SpecificIntelligentFire ManagementSystem

Creating NodeRed Service:



The screenshot shows the Node-RED web interface in a browser. The left sidebar contains 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, labeled 'Flow 1', contains a flow with two nodes: 'IBM IoT' (labeled 'connected') and 'msg payload'. The right sidebar shows the 'info' tab for the selected 'IBM IoT' node, displaying its ID '0a2b595cde385b59' and type 'ibmiot in'. The bottom of the browser window shows the Windows taskbar with the search bar and various application icons.

Developing web application using NodeRed service:



The screenshot shows the Node-RED web interface with a more complex flow. The left sidebar now includes 'function' nodes (switch, slider, numeric, button, date picker, text input, colour picker, form, gauge, chart, audio out, text). The main workspace 'Flow 1' contains a flow with three nodes: 'IBM IoT' (labeled 'connected'), 'temp node' (labeled 'temp node'), and 'temp' (labeled 'temp'). The right sidebar shows the 'debug' tab, displaying a log of messages received from the IoT node. The messages are objects containing a 'temperature' property with values 72, 12, and 41. The bottom of the browser window shows the Windows taskbar.

Resource list - IBM Cl... x Node-RED : node-red x ci-pipeline PipelineR... x IBM Cloud Account x IBM Watson IoT Platf... x Node-RED Dashboard x +

node-red-ottpl-2022-11-14.eu-gb.mybluemix.net/red/#flow/7ef6cba404b334fd

Node-RED

Deploy

filter nodes

Flow 1

debug

all nodes

11/14/2022, 1:36:28 PM node: 9397ae8beadb9f95
iot:
2/type/910019104702/id/910019104702/ev/1/event_1/ftm/json
:msg.payload: Object
{ temperature: 51, flame sensor: 56, gas sensor: 98 }
11/14/2022, 1:38:31 PM node: 9397ae8beadb9f95
iot:
2/type/910019104702/id/910019104702/ev/1/event_1/ftm/json
:msg.payload: Object
{ temperature: 72, flame sensor: 17, gas sensor: 74 }
11/14/2022, 1:38:34 PM node: 9397ae8beadb9f95
iot:
2/type/910019104702/id/910019104702/ev/1/event_1/ftm/json
:msg.payload: Object
{ temperature: 5, flame sensor: 97, gas sensor: 97 }

node-v19.0.1-x64.msi

Show all

Type here to search

13:45 14-11-2022

```
graph LR; IoT[IBM IoT] --> MP[msg payload]; IoT --> Temp[temp node]; IoT --> Flame[Flame Sensor]; IoT --> Gas[Gas sensor]; Temp --> TempOut[temp]; Flame --> FlameOut[flame]; Gas --> Gauge[gauge];
```