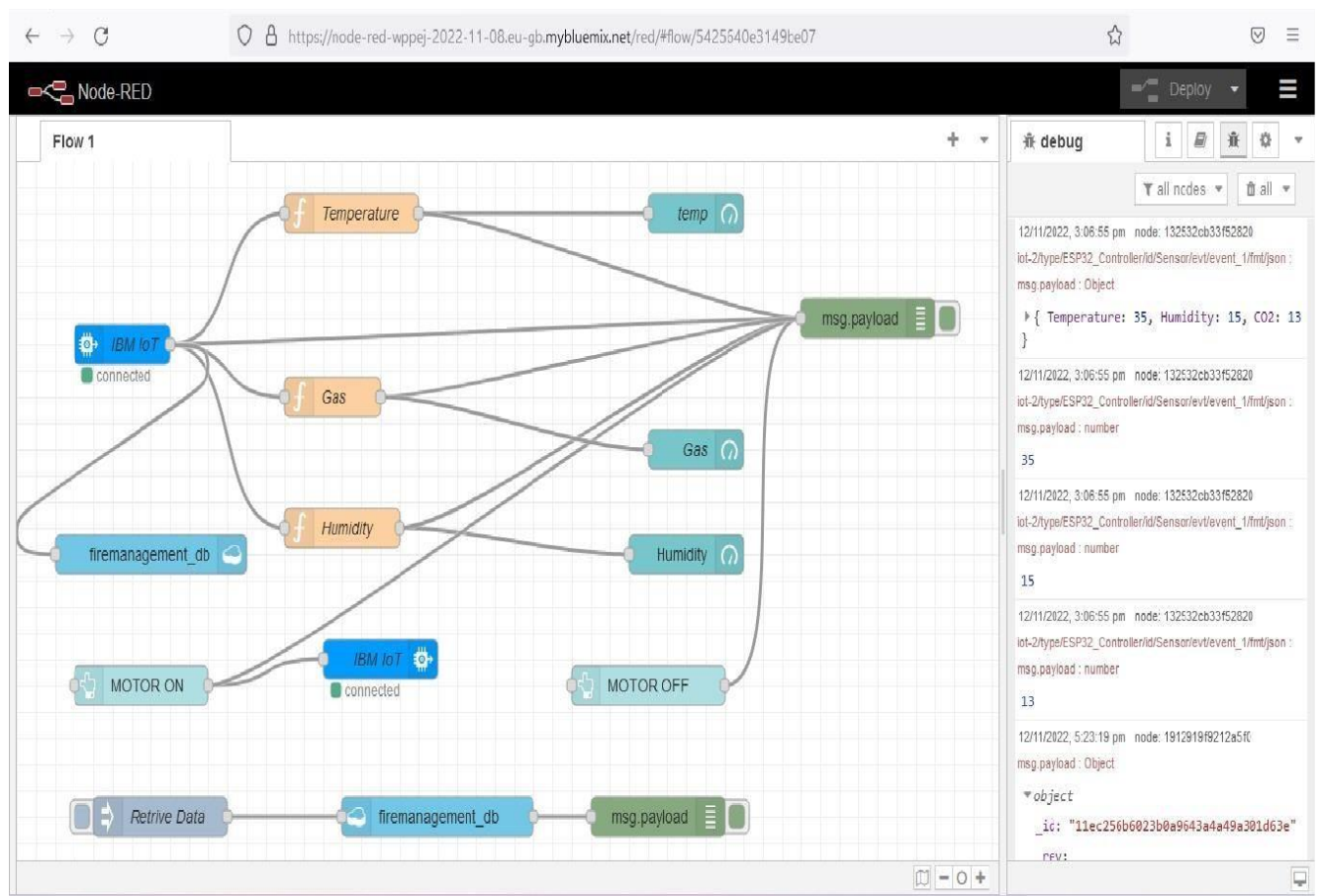


Develop The Web Application Using Node-RED

Team ID	PNT2022TMID20420
Project Name	Industry – specific intelligent fire management system

Configure the Node-RED flow to receive data from the IBM IoT platform :



IBM Watson Cloud Output:

The recent events listed show the live stream of data that is coming and going from this device.

Event	Value	Format	Last Received
event_1	{"Temperature":21,"Humidity":31,"CO2":26,"Fla...	json	a few seconds ago
event_1	{"Temperature":2,"Humidity":57,"CO2":2,"Flame...	json	a few seconds ago
event_1	{"Temperature":33,"Humidity":85,"CO2":23,"Fla...	json	a few seconds ago
event_1	{"Temperature":10,"Humidity":85,"CO2":28,"Fla...	json	a few seconds ago
event_1	{"Temperature":77,"Humidity":36,"CO2":36,"Fla...	json	a few seconds ago

1 Simulation running

ultra Disconnected ESP

Use Cloudant DB nodes to store the received sensor data in the Cloudant DB:

Node-RED interface showing a flow for storing sensor data in Cloudant DB.

The flow starts with an **IBM IoT** node (connected) which triggers a **msg.payload** node. The data is then processed by a **msg.payload** node and stored in a **firemanagement_db** node (Cloudant DB). The flow also includes a **Retrive Data** node (note the typo) connected to the **firemanagement_db** node, which outputs to a **msg.payload** node.

The debug console shows the following message:

```
12/11/2022, 7:11:55 pm node: 1912919f9212a5f0
msg.payload: Object
  object
    _id: "0c7a9d83b6c2ccccfc705cfb921d79e4"
    _rev: "1-823452fd0277366df39fc3ddab64afde"
    topic: "iot-2/type/ESP32_Controller/id/Sensor/evt/event_1/fmt/json"
  payload: object
    Temperature: 5
    Humidity: 50
    CO2: 50
    Flame: 93
    deviceId: "Sensor"
    deviceType: "ESP32_Controller"
    eventType: "event_1"
    format: "json"
```

Storing Data in Cloudant Database:

firemanagement_db

Document ID

Options {} JSON

Create Document

	id	key	value
<input type="checkbox"/>	0c7a9d83b6c2ccccfc705cfb921d79e4	0c7a9d83b6c2ccccfc705cfb921d79e4	{"rev": "1-823452fd0277366df39fc..."}
<input type="checkbox"/>	0c7a9d83b6c2ccccfc705cfb921fed3e	0c7a9d83b6c2ccccfc705cfb921fed3e	{"rev": "1-f66d54506f51c9c8a2571..."}
<input type="checkbox"/>	0c7a9d83b6c2ccccfc705cfb9220c6f0	0c7a9d83b6c2ccccfc705cfb9220c6f0	{"rev": "1-b1964621234efdf5b37fe..."}
<input type="checkbox"/>	0c7a9d83b6c2ccccfc705cfb92227d81	0c7a9d83b6c2ccccfc705cfb92227d81	{"rev": "1-2796390cb5ded6c72C72..."}
<input type="checkbox"/>	0c7a9d83b6c2ccccfc705cfb92296c06	0c7a9d83b6c2ccccfc705cfb92296c06	{"rev": "1-35c25093322e143ef0f22..."}
<input type="checkbox"/>	0c7a9d83b6c2ccccfc705cfb922ea0f9	0c7a9d83b6c2ccccfc705cfb922ea0f9	{"rev": "1-bf119ea41c91dc75ace98..."}
<input type="checkbox"/>	1904e7f6289ceabbe74bba25d46a4f...	1904e7f6289ceabbe74bba25d46a4f...	{"rev": "1-21ea0132ec21b00dd7f46..."}
<input type="checkbox"/>	227aa9af201bc2d02790a57e7ab25...	227aa9af201bc2d02790a57e7ab25...	{"rev": "1-0492498ea34f19aed06f..."}
<input type="checkbox"/>	2503fe8aebab0fa98b9cc5c76aea93f1	2503fe8aebab0fa98b9cc5c76aea93f1	{"rev": "1-874687a42b1a135d3b0cf..."}
<input type="checkbox"/>	3536e866b44c219242eaf2fb368e7...	3536e866b44c219242eaf2fb368e7...	{"rev": "1-7eb00af2e5bf22f1f2f7f1d..."}

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