

# SPRINT-2

<b>Team ID</b>	<b>PNT2022TMID22877</b>
<b>Project Name</b>	<b>Gas Leakage Monitoring and Alerting System</b>

IBM Watson IoT Platform

Browse

Action

Device Types

Interfaces

Add Device

Browse Devices

All Devices

Diagnose

This table shows a summary of all devices that have been added. It can be filtered, organized, and searched on using different criteria. To get started, you can add devices by using the Add Device button, or by using API.

Search by Device ID

Device Simulator ☒

	Device ID	Status	Device Type	Class ID	Date Added	Descriptive Location
>	<input type="checkbox"/> 1234	Disconnected	ESP32	Device	Nov 11, 2022 1:14 PM	
>	<input type="checkbox"/> 1234	Disconnected	iot_device	Device	Nov 5, 2022 9:04 PM	

Items per page 50 | 1-2 of 2 items

0 Simulations running

# OUTPUT:

The screenshot displays the IBM Watson IoT Platform interface. At the top, the browser address bar shows the URL `xz5tn5.internetofthings.ibmcloud.com/dashboard/devices/browse`. The platform header includes the user profile `vijipv1107@gmail.com` and ID `xz5tn5`. The main navigation bar features tabs for `Browse`, `Action`, `Device Types`, and `Interfaces`, along with an `Add Device` button.

The `Browse` tab is active, showing a table of devices:

Device ID	Status	Device Type	Class ID	Date Added	Descriptive Location
1234	Disconnected	ESP32	Device	Nov 11, 2022 1:14 PM	
1234	Disconnected	iot_device	Device	Nov 5, 2022 9:04 PM	

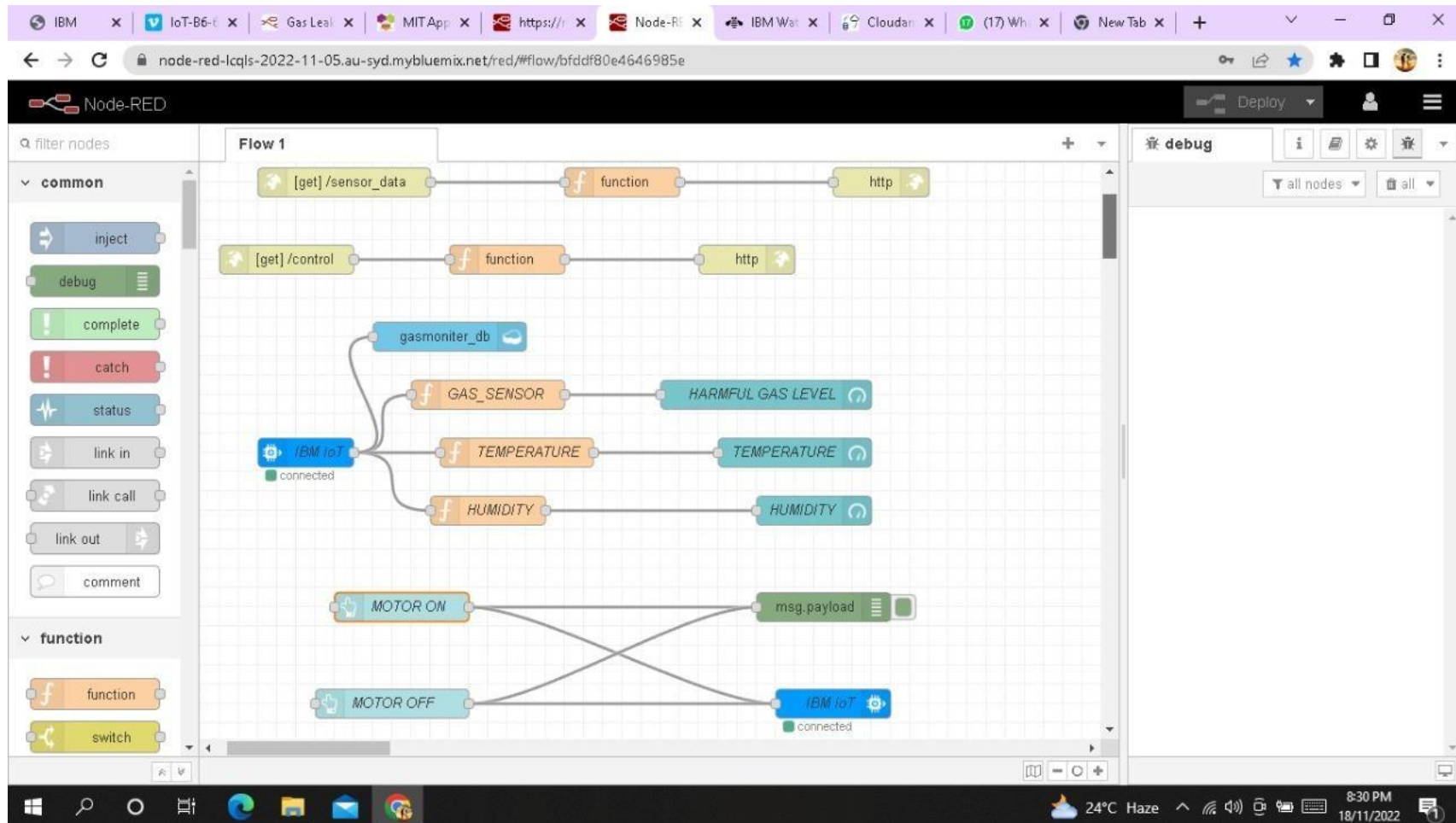
The second device (ID 1234, Type iot\_device) is selected, and its details are shown in a modal window. The modal has tabs for `Identity`, `Device Information`, `Recent Events`, `State`, and `Logs`. The `Recent Events` tab is active, displaying a message: "The recent events listed show the live stream of data that is coming and going from this device."

Below the message is a table of recent events:

Event	Value	Format	Last Received
event_1	{"Gas Level":5,"Humidity":60,"Temp":49}	json	a few seconds ago
event_1	{"Gas Level":43,"Humidity":73,"Temp":36}	json	a few seconds ago
event_1	{"Gas Level":72,"Humidity":18,"Temp":19}	json	a few seconds ago
event_1	{"Gas Level":55,"Humidity":25,"Temp":31}	json	a few seconds ago
event_1	{"Gas Level":60,"Humidity":62,"Temp":3}	json	a few seconds ago

At the bottom of the modal, it states "0 Simulations running". The Windows taskbar at the very bottom shows the system time as 8:28 PM on 14/11/2022, with a weather widget indicating 23°C and Cloudy.

# WORKFLOW FLOW FOR IOT SCENERIOS UNSING LOCAL NODE RED:



Node-RED interface showing a flow editor and the 'Edit function node' panel.

**Flow Editor:** The flow is titled 'Flow 1'. It starts with a 'gasmonitor\_db' node, which connects to a 'function' node (GAS\_SENSOR). The 'function' node is currently selected and its properties are shown in the 'Edit function node' panel. The flow continues to a 'switch' node, which then connects to a 'comment' node.

**Edit function node panel:**

- Name:** GAS\_SENSOR
- Setup:** On Start, On Message, On Stop
- Code:**

```
1 msg.payload=msg.payload.harmful_gas
2 global.set('h',msg.payload)
3 return msg;
```
- Enabled:** ☐ Enabled

**Right sidebar (info panel):**

- Flows:** Flow 1, Flow 2, Flow 3, Flow 4, Flow 5
- Subflows:** Global Configuration Nodes
- GAS\_SENSOR node details:**
  - Node:** "6fbb4965bbaec42f"
  - Type:** function
- Export:** Export the selected nodes, or the current tab with `ctrl-e`

System tray information: 16% battery, 22°C Haze, 12:45 AM, 11/19/2022.