

# SPRINT 2

Team ID	PNT2022TMID01194
Project Name	Hazardous Area Monitoring for Industrial Plant powered by IoT

## 1. Device Creation using IoT Watson platform with credentials:

- IBM Watson IoT platform acts as the mediator to connect the web application to the IoT device, so create the IBM Watson IoT platform.
- In order to connect the IoT device to the IBM cloud, we need to create a device in the IBM Watson IoT platform and get the device credentials.
- To configure the connection security and create API keys that are used in the Node-RED service for accessing the IBM IoT Platform.

The screenshot displays the IBM Watson IoT Platform interface. The main heading is 'Browse Devices'. Below it, there are tabs for 'All Devices' and 'Diagnose'. A message states: '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.' Below this is a search bar labeled 'Search by Device ID'. To the right of the search bar is a 'Device Simulator' toggle switch, which is currently turned on. Below the search bar is a table with the following columns: Device ID, Status, Device Type, Class ID, Date Added, and Descriptive Location. The table contains two rows: one for 'Temperature\_today' with status 'Disconnected' and device type 'Temperature\_device', and another for 'hazard\_report' with status 'Connected' and device type 'hazardous\_monitoring'. The 'hazard\_report' row is highlighted. Below the table, there is a pagination bar showing 'Items per page 50' and '1-2 of 2 items'. At the bottom right, there is a status box that says '1 Simulation running'.

Device ID	Status	Device Type	Class ID	Date Added	Descriptive Location
Temperature_today	Disconnected	Temperature_device	Device	23 Oct 2022 13:21	
hazard_report	Connected	hazardous_monitoring	Device	6 Nov 2022 19:37	

IBM Watson IoT Platform

vaishu070202@gmail.com  
ID: mkv7mj

Browse Action Device Types Interfaces

Temperature\_today Disconnected Temperature\_device Device 23 Oct 2022 13:21

hazard\_report Connected hazardous\_monitoring Device 6 Nov 2022 19:37

Identity Device Information Recent Events State Logs

Device ID hazard\_report

Device Type hazardous\_monitoring

Date Added 6 Nov 2022 19:37

Added By vaishu070202@gmail.com

Connection Status Connected  
Connection Time: 8 Nov 2022 19:45  
Client Address: 49.37.211.91 SecureToken

Items per page 50 | 1-2 of 2 items

1 Simulation running

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Browse Action Device Types Interfaces

Temperature\_today Disconnected Temperature\_device Device 23 Oct 2022 13:21

hazard\_report Connected hazardous\_monitoring Device 6 Nov 2022 19:37

Identity Device Information Recent Events State Logs

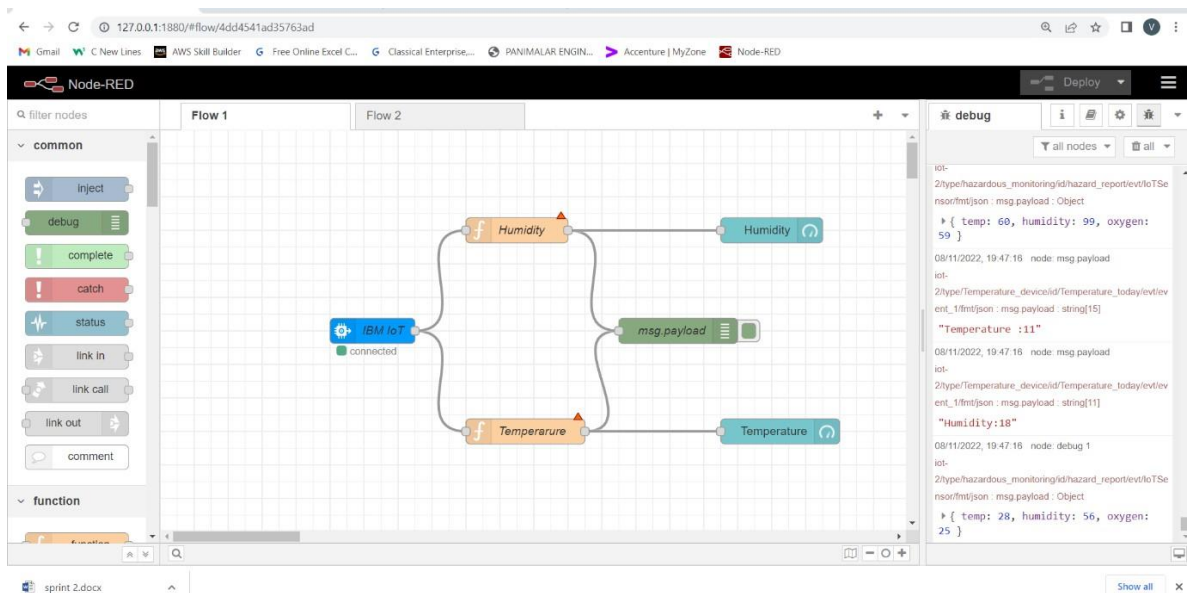
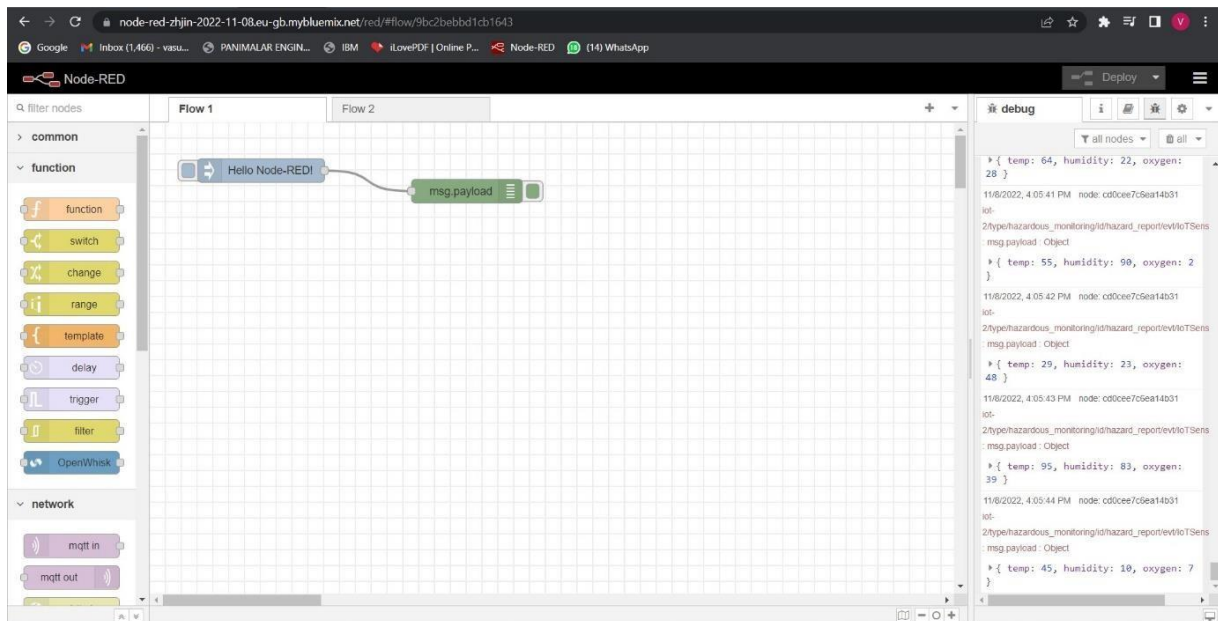
The recent events listed show the live stream of data that is coming and going from this device.

Event	Value	Format	Last Received
IoTSensor	{"temp":6,"humidity":31,"oxygen":17}	json	a few seconds ago
IoTSensor	{"temp":71,"humidity":25,"oxygen":92}	json	a few seconds ago
IoTSensor	{"temp":47,"humidity":58,"oxygen":68}	json	a few seconds ago
IoTSensor	{"temp":14,"humidity":19,"oxygen":22}	json	
IoTSensor	{"temp":77,"humidity":72,"oxygen":80}	json	

1 Simulation running

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## 2.Required Performance of device using Local Node-Red Platform:



Cloudant DB is used to create a database to store the location data.

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Gmail

C New Lines

AWS Skill Builder

Free Online Excel C...

Classical Enterprise...

PANIMALAR ENGIN...

Accenture | MyZone

Node-RED

Home

Databases

Analytics

API Explorer

Settings

Help

Log Out

Databases

Database name ▾

Create Database

{ } JSON

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Your Databases

Name	Size	# of Docs	Partitioned	Actions
hazard	14 bytes	1	No	
noderedmfcnc20221108	25.7 KB	4	No	

Showing 1–2 of 2 databases. Databases per page 20 ▾ < 1 >