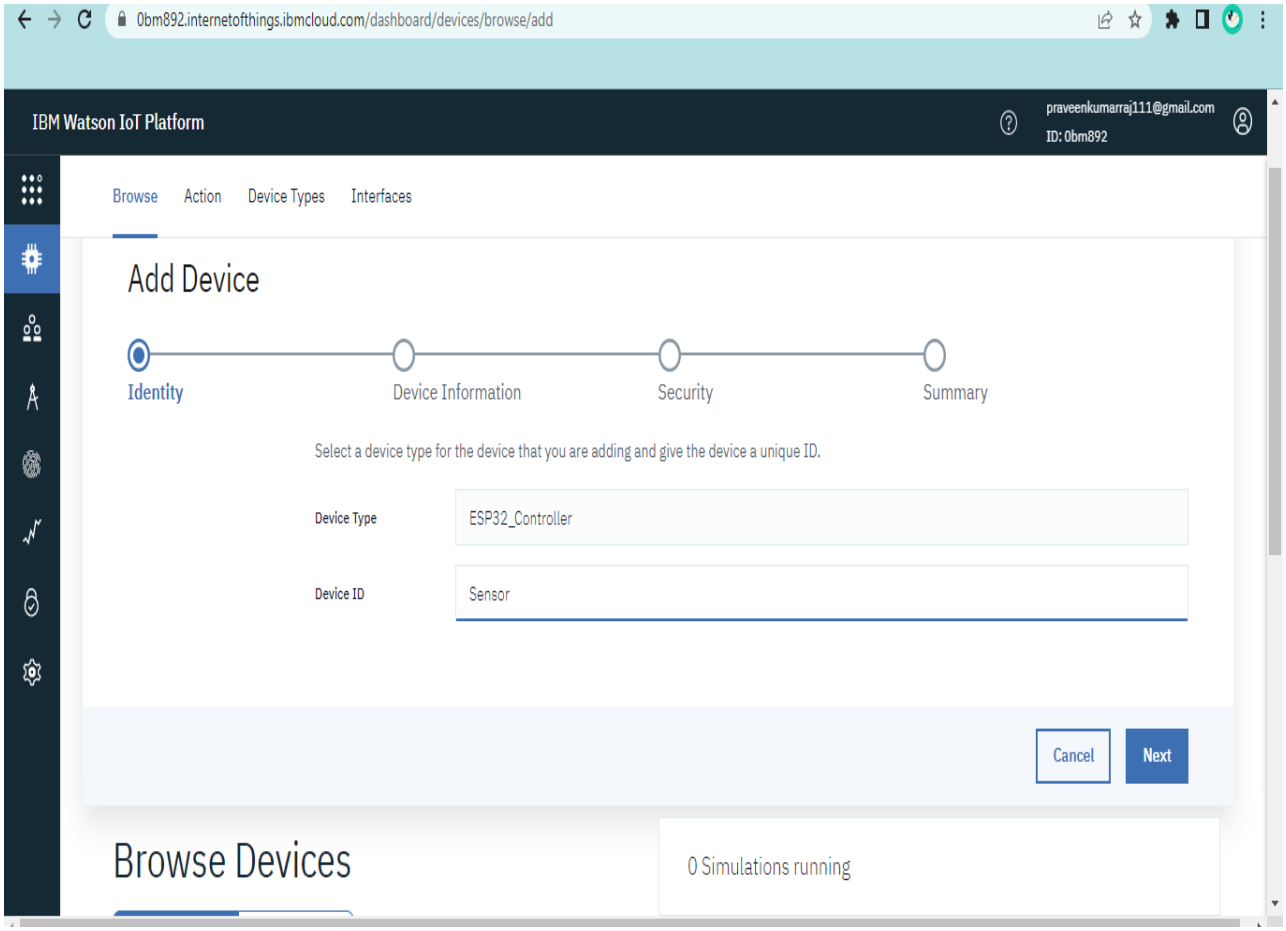
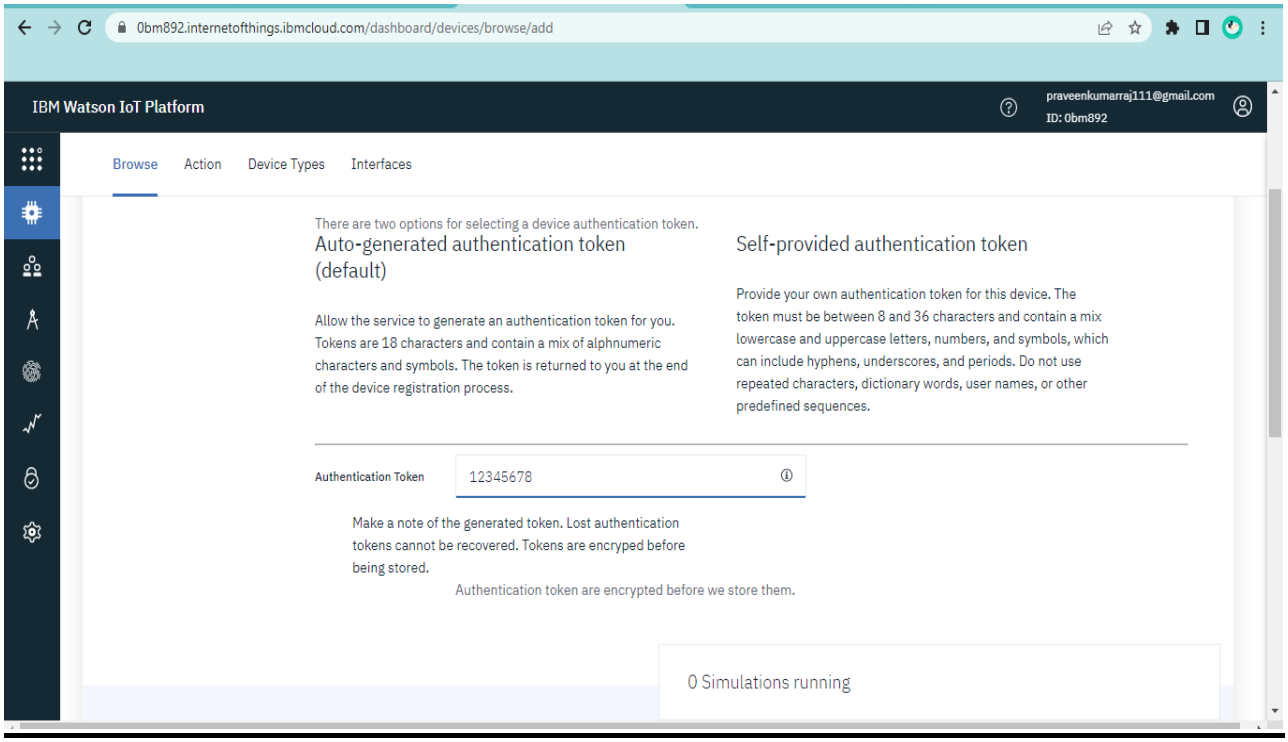
PROJECT DEVELOPMENT PHASE

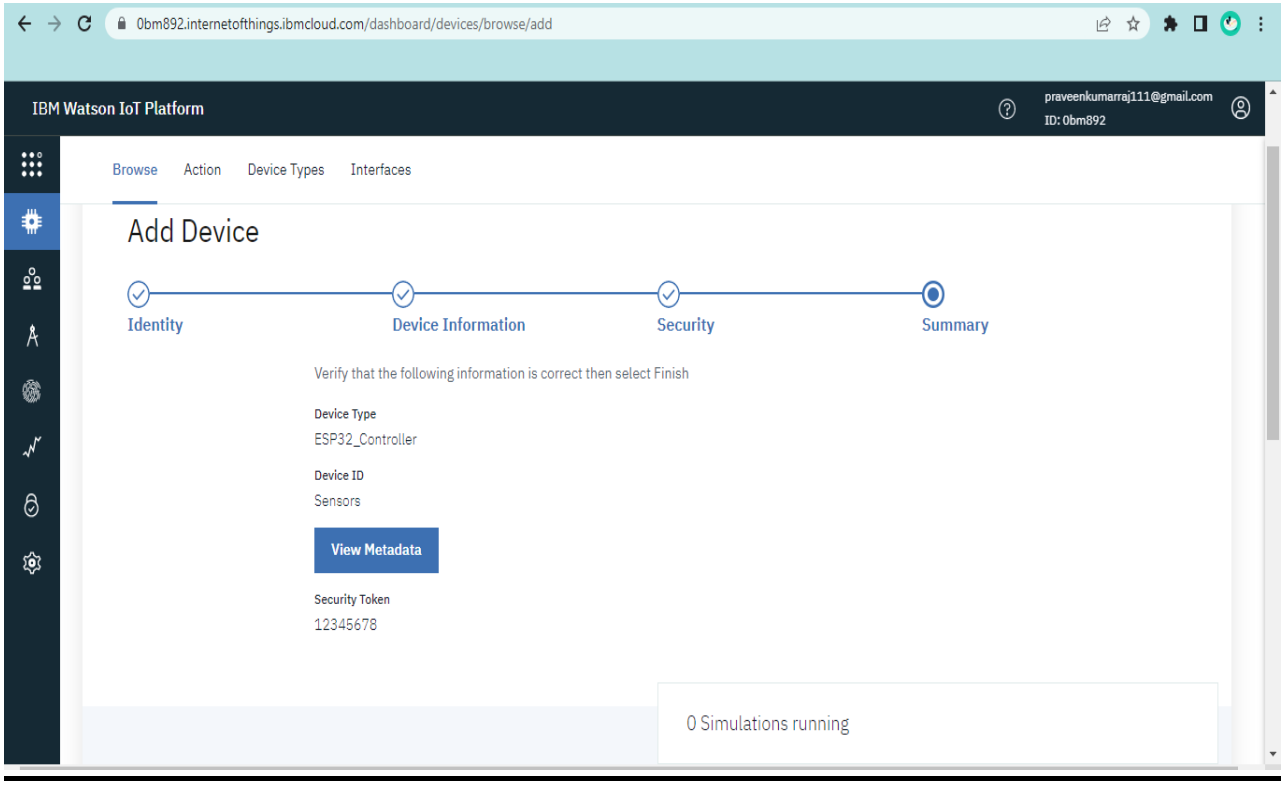
Date	**17 November 2022**
Team ID	**PNT2022TMID42644**
Project Title	**INDUSTRY – SPECIFIC INTELLIGENT FIRE MANAGEMENT SYSTEM**

SPRINT 2 : Software (Create a device in IoT Watson Platform, Workflow for IoT Scenarios in Local Node-RED :

Creating a device in IoT Watson Platform :




0bm892.internetofthings.ibmcloud.com/dashboard/devices/browse/add
IBM Watson IoT Platform
praveenkumarraj111@gmail.com
ID: 0bm892
Browse
Action
Device Types
Interfaces
There are two options for selecting a device authentication token.
Auto-generated authentication token (default)
Allow the service to generate an authentication token for you. Tokens are 18 characters and contain a mix of alphnumeric characters and symbols. The token is returned to you at the end of the device registration process.
Self-provided authentication token
Provide your own authentication token for this device. The token must be between 8 and 36 characters and contain a mix lowercase and uppercase letters, numbers, and symbols, which can include hyphens, underscores, and periods. Do not use repeated characters, dictionary words, user names, or other predefined sequences.
Authentication Token
12345678
Make a note of the generated token. Lost authentication tokens cannot be recovered. Tokens are encryped before being stored.
Authentication token are encrypted before we store them.
0 Simulations running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IBM Watson IoT Platform
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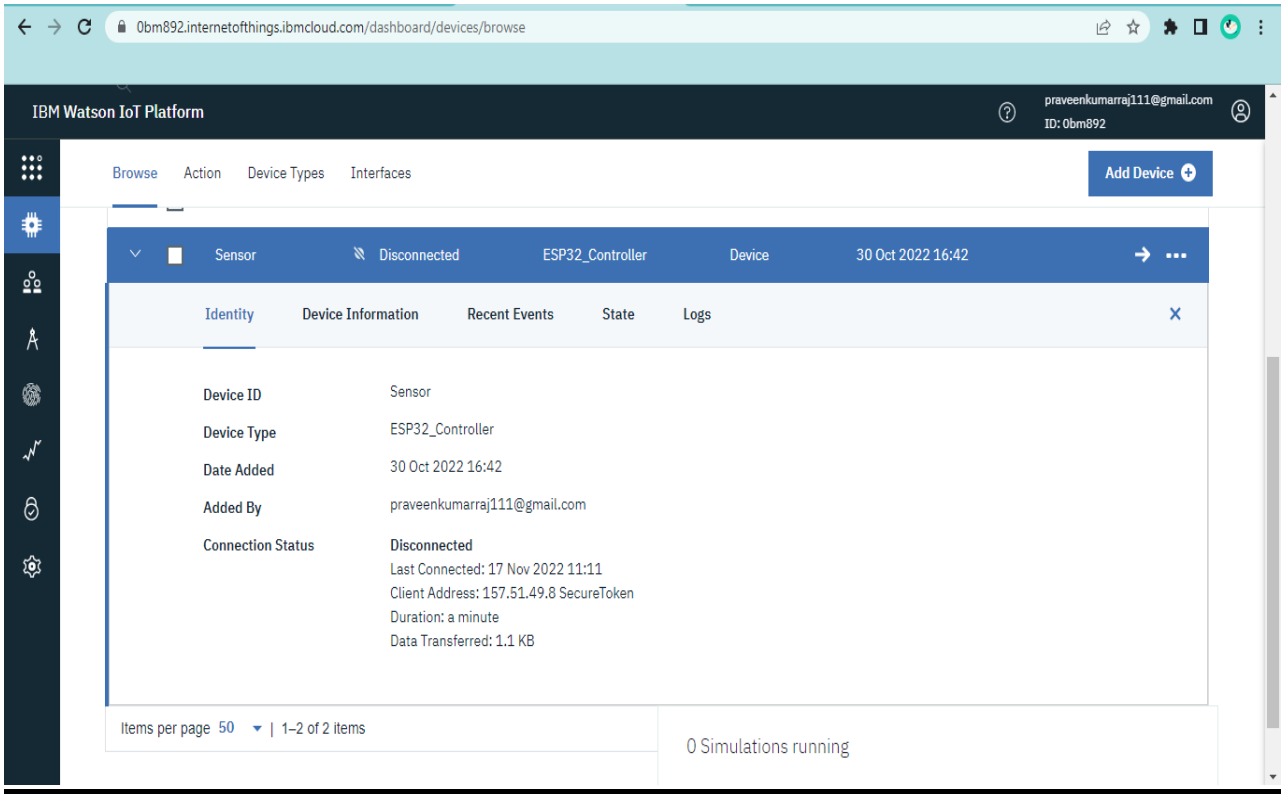
ID: 0bm892
Browse
Action
Device Types
Interfaces
Add Device
Identity
Device Information
Security
Summary
Verify that the following information is correct then select Finish
Device Type
ESP32_Controller
Device ID
Sensors
View Metadata
Security Token
12345678
0 Simulations running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IBM Watson IoT Platform
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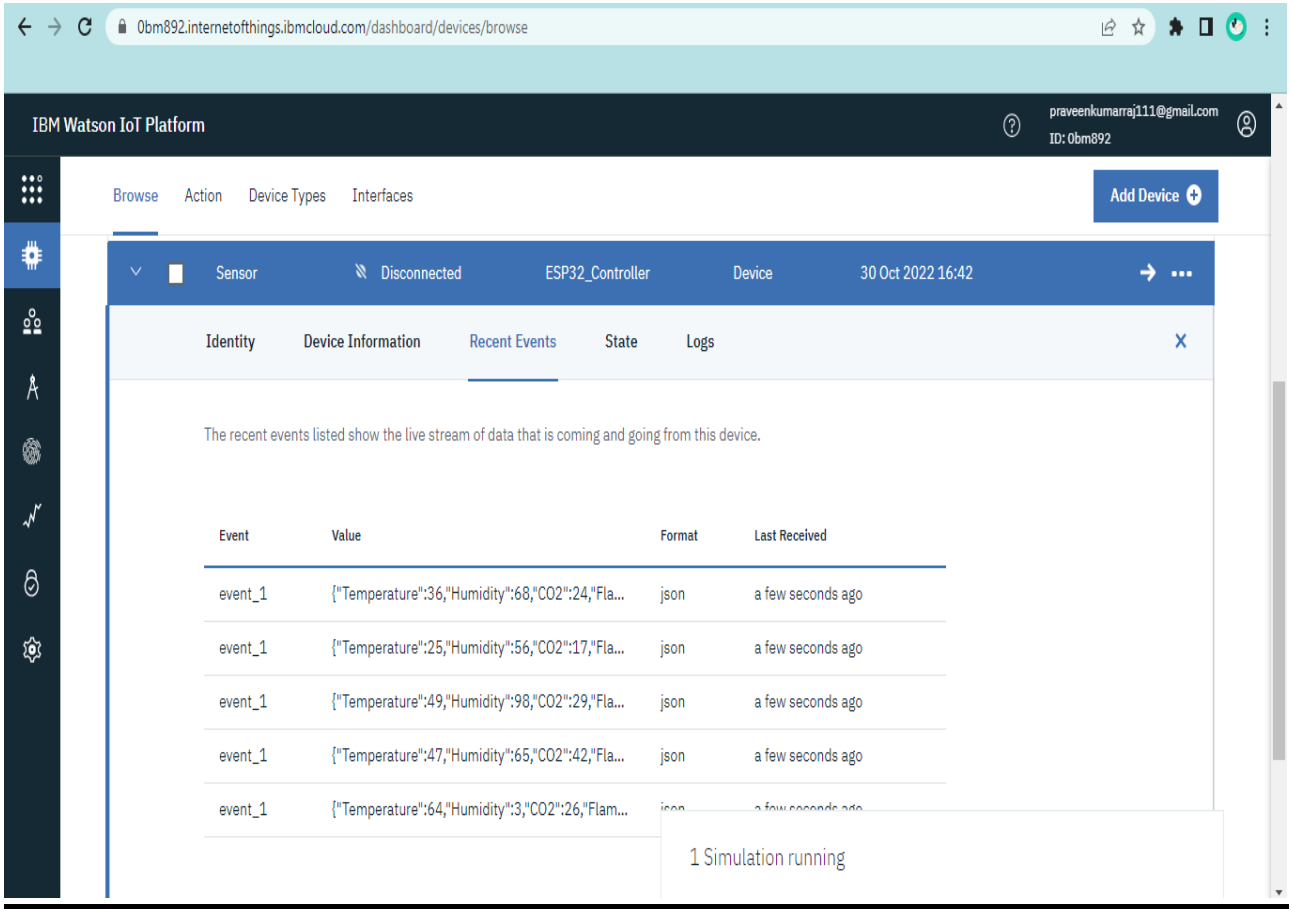
ID: 0bm892
Browse
Action
Device Types
Interfaces
Add Device
Sensor
Disconnected
ESP32_Controller
Device
30 Oct 2022 16:42
Identity
Device Information
Recent Events
State
Logs
Device ID
Sensor
Device Type
ESP32_Controller
Date Added
30 Oct 2022 16:42
Added By
praveenkumarraj111@gmail.com
Connection Status
Disconnected
Last Connected: 17 Nov 2022 11:11
Client Address: 157.51.49.8 SecureToken
Duration: a minute
Data Transferred: 1.1 KB
Items per page 50
1–2 of 2 items
0 Simulations running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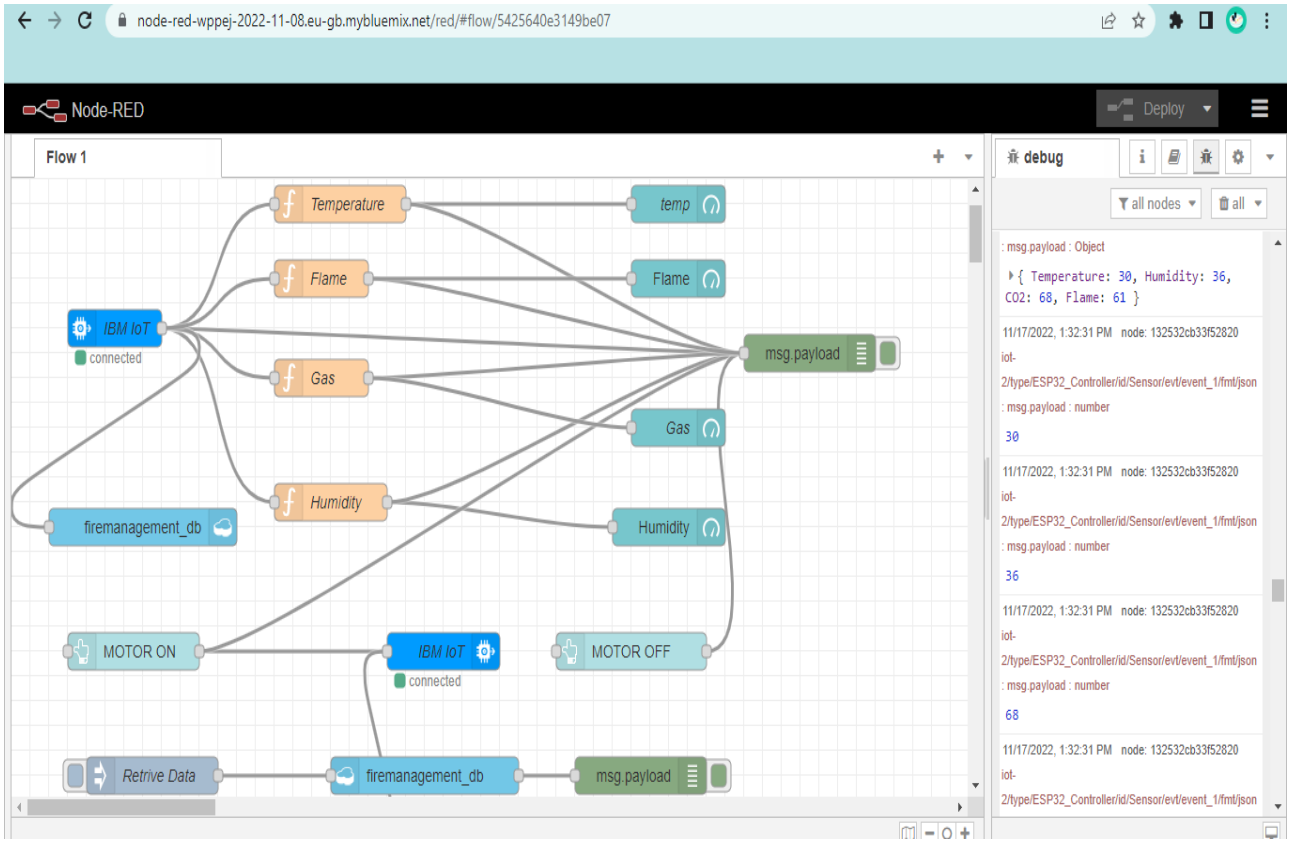
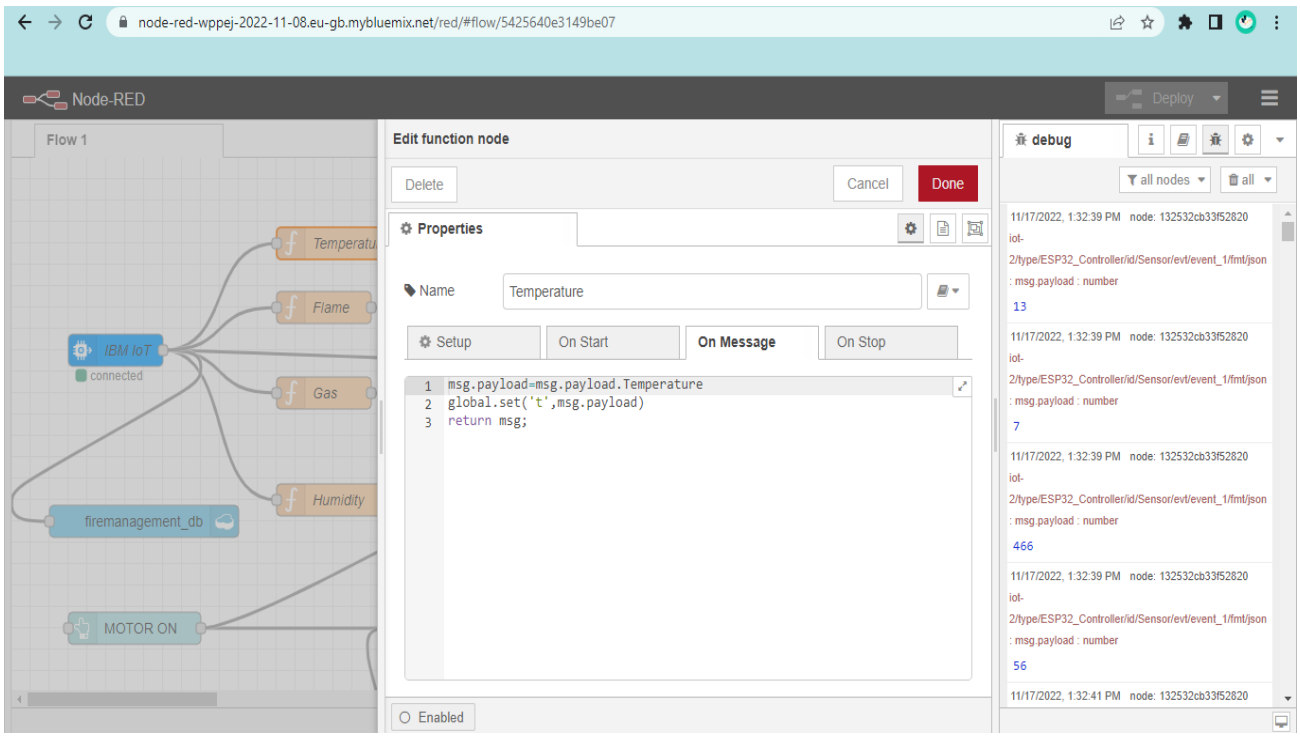
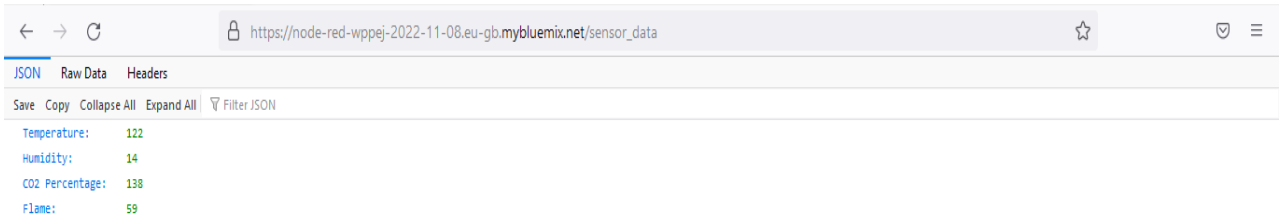
ID: 0bm892
Browse
Action
Device Types
Interfaces
Add Device
Sensor
Disconnected
ESP32_Controller
Device
30 Oct 2022 16:42
Identity
Device Information
Recent Events
State
Logs
The recent events listed show the live stream of data that is coming and going from this device.
Event
Value
Format
Last Received
event_1
{"Temperature":36,"Humidity":68,"CO2":24,"Fla...
json
a few seconds ago
event_1
{"Temperature":25,"Humidity":56,"CO2":17,"Fla...
json
a few seconds ago
event_1
{"Temperature":49,"Humidity":98,"CO2":29,"Fla...
json
a few seconds ago
event_1
{"Temperature":47,"Humidity":65,"CO2":42,"Fla...
json
a few seconds ago
event_1
{"Temperature":64,"Humidity":3,"CO2":26,"Flam...
1 Simulation running

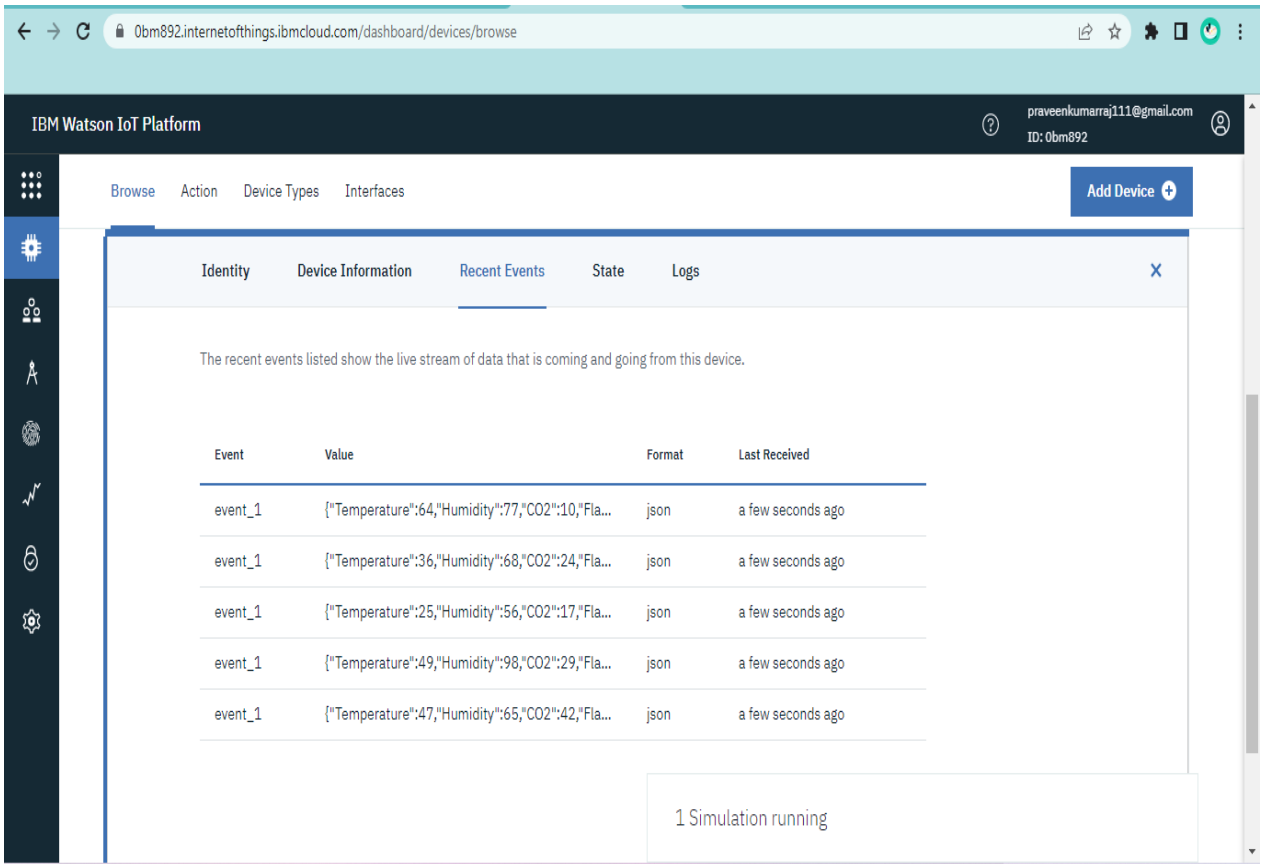
Workflow for IoT Scenarios in Local Node-RED :






https://node-red-wppej-2022-11-08.eu-gb.mybluemix.net/sensor_data
JSON
Raw Data
Headers
Save
Copy
Collapse All
Expand All
Filter JSON
Temperature: 122
Humidity: 14
CO2 Percentage: 138
Flame: 59

IBM OUTPUT :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ID: 0bm892
Browse
Action
Device Types
Interfaces
Add Device
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
event_1 {"Temperature":64,"Humidity":77,"CO2":10,"Fla... json a few seconds ago
event_1 {"Temperature":36,"Humidity":68,"CO2":24,"Fla... json a few seconds ago
event_1 {"Temperature":25,"Humidity":56,"CO2":17,"Fla... json a few seconds ago
event_1 {"Temperature":49,"Humidity":98,"CO2":29,"Fla... json a few seconds ago
event_1 {"Temperature":47,"Humidity":65,"CO2":42,"Fla... json a few seconds ago
1 Simulation running