

DEVELOP THE WEB APPLICATION USING NODE-RED

Team ID	PNT2022TMID21245
Project Name	Project – Industry Specific Intelligent Fire Management System

Team Leader : Lakshmi Sree S

Team member 1 : Bhagyalakshmi T

Team member 2: Harsini A.M

Team member 3: Madhumitha P.R

1. After logged in to the IBM Cloud account, Go to the apps in the side menu and click on the respective device to generate API key.

IBM Watson IoT Platform

harsiniam@student.lce.edu
ID: 5l22w9

Browse IBM Cloud Apps

+ Generate API Key

Browse API Keys

Type the app description to search for

This table shows a summary of the API keys that have been added for the organization. It can be filtered, organized, and search on using different criteria. To get started, you can add API keys by clicking Generate API Key, or by using the API. For more information about adding API keys, see [API key connection](#).

<input type="checkbox"/> Key	Description	Role	Expires	
2 results				
<input type="checkbox"/> a-5l22w9-pjvbgx19j4	-	Standard Application	-	... <input type="checkbox"/>
<input type="checkbox"/> a-5l22w9-vbm2qjkjrk	API Key for the device simulator	Standard Application	-	... <input type="checkbox"/>

Generate API Key

Information Permissions

The application will have access for the following role:

Role

For more information about roles, see [User, application, and gateway roles](#).

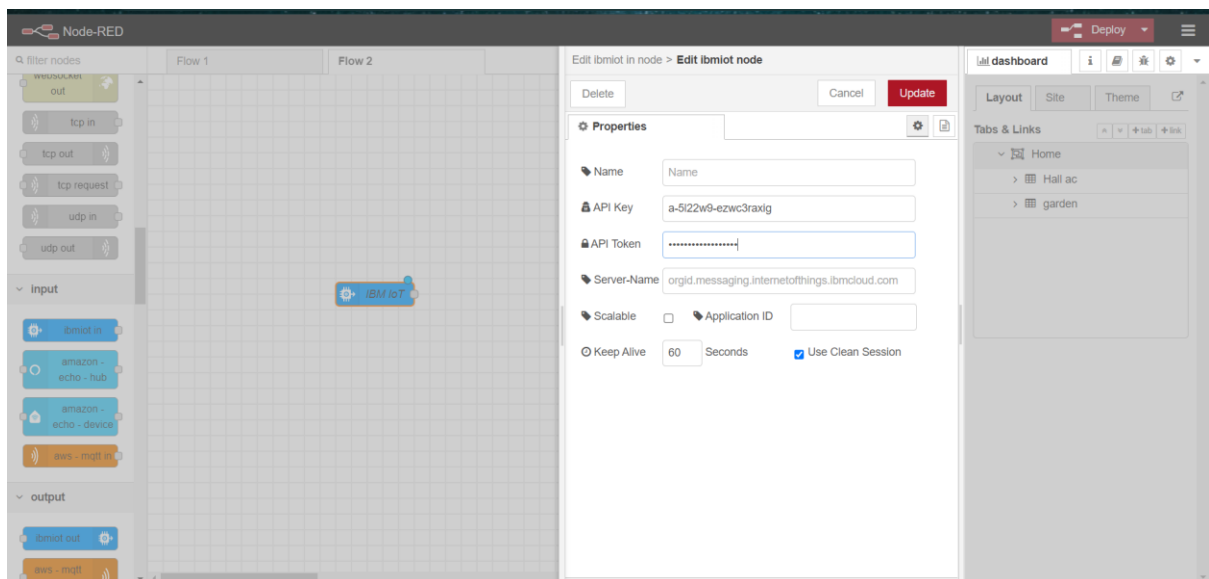
Back Generate Key

Browse API Keys

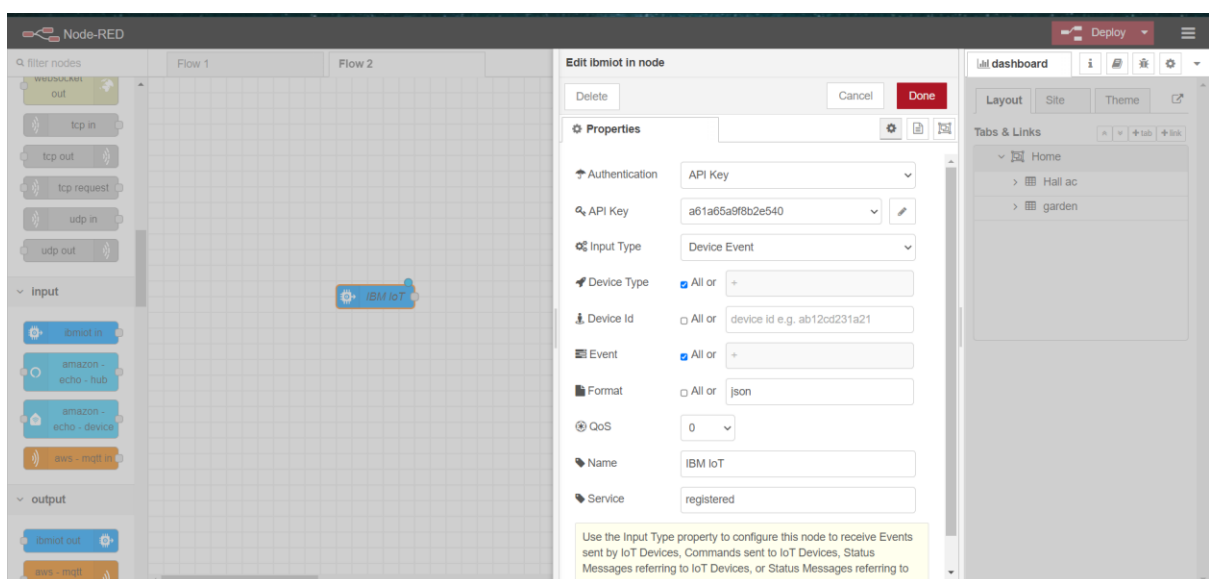
Type the app description to search for

This table shows a summary of the API keys that have been added for the organization. It can be filtered, organized, and search on using different criteria. To get started, you can add API keys by clicking Generate API Key, or by using the API. For more information about adding API keys, see [API key connection](#).

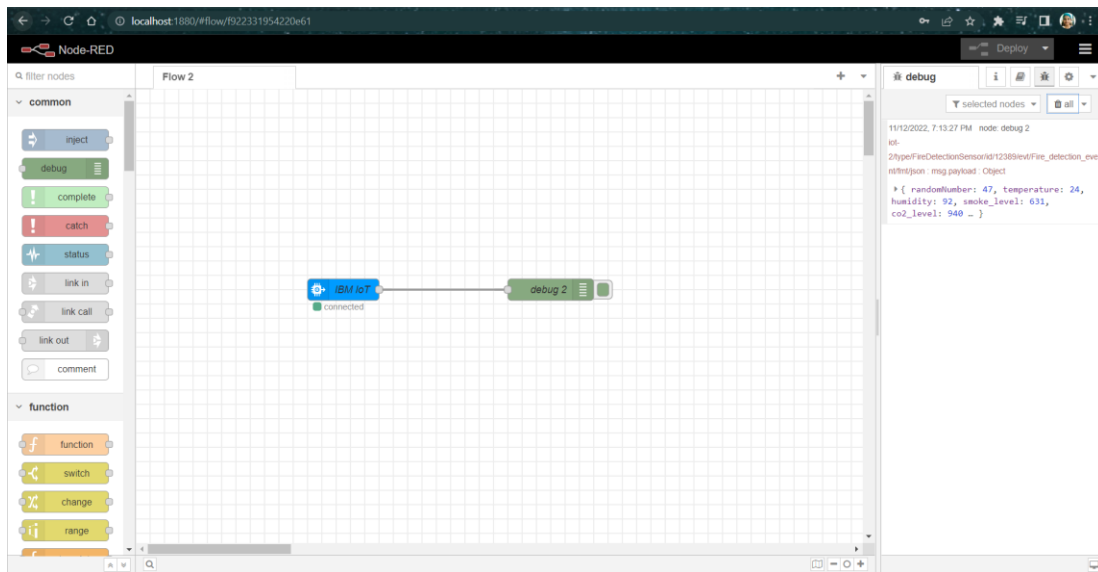
2. Get the ibmiot in node and edit the node. Enter the values of API key and API Token and click on update button.



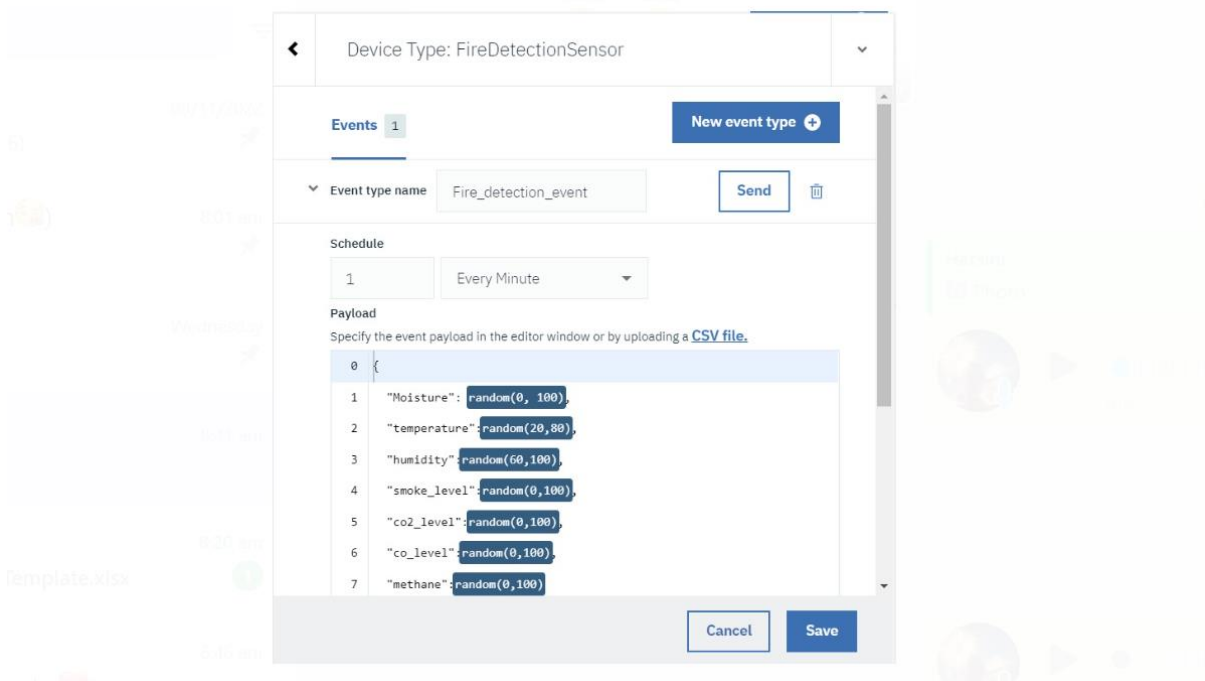
3. Edit the ibmiot in node, by entering Input Type, Format and name.



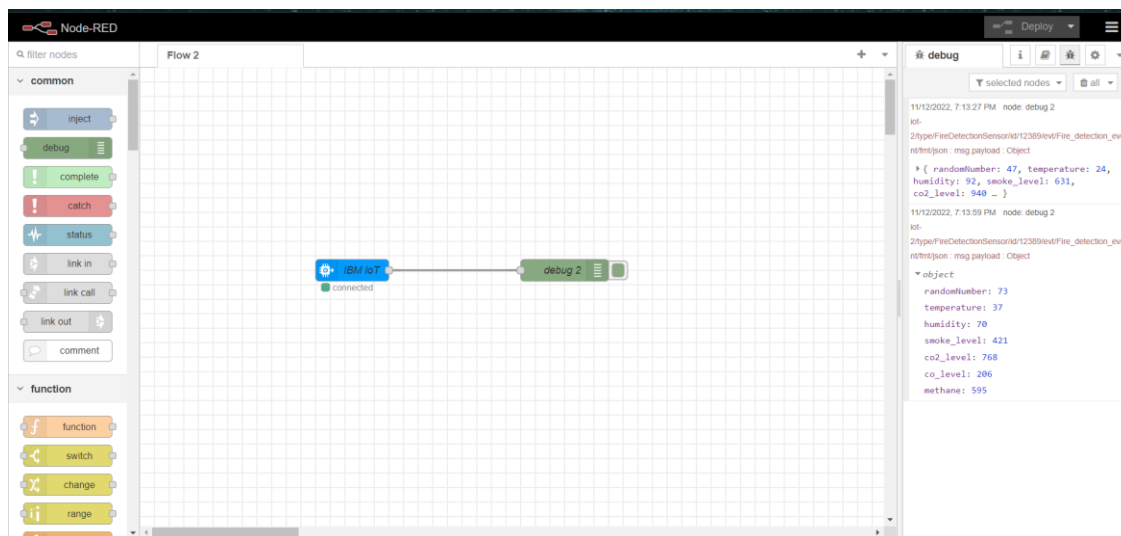
4. Connect the IBM Iot to debug node.



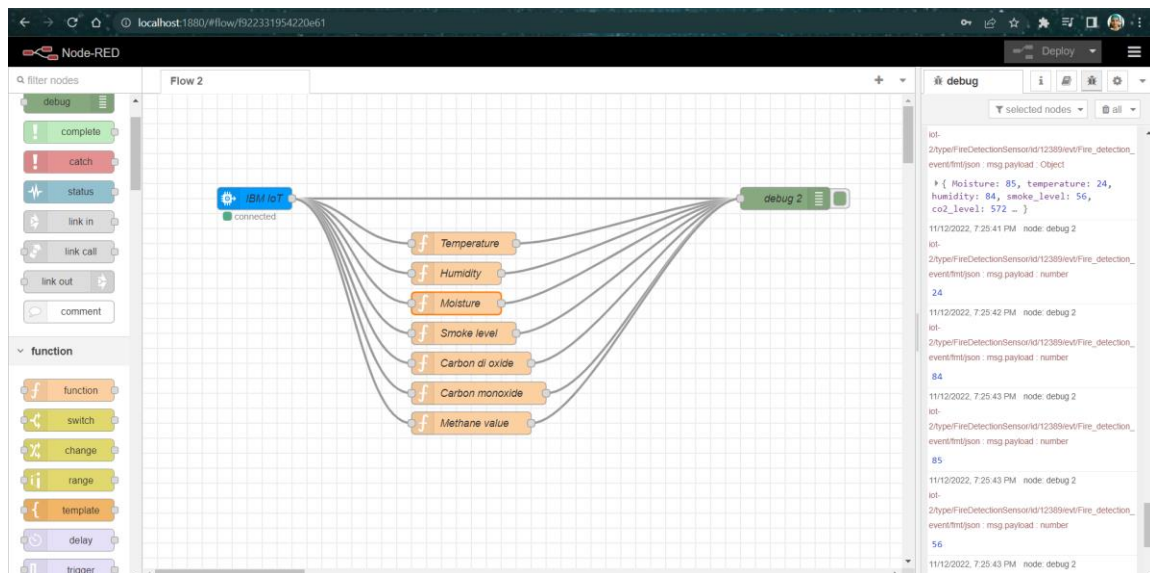
5. After enabling device simulator, write the function to generate the values.



6. The generated values in IBM cloud account will be displayed in node – red



7. After inserting the functions for temperature, humidity, moisture, smoke level, carbon di oxide, carbon monoxide and methane value and connect it with chart node for temperature, humidity, moisture node and gauge node with carbon di oxide, carbon monoxide and methane value node.



8. Edit the chart and gauge nodes.

Edit gauge node

Delete Cancel Done

Properties

Group [Smart Industry] Area-2 readings

Size auto

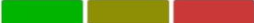
Type Gauge

Label Carbon di oxide readings

Value format {{value}}

Units units

Range min 0 max 1500

Colour gradient 

Sectors 0 optional 1500

Class Optional CSS class name(s) for widget

Name Carbon di oxide

Edit chart node

Delete Cancel Done

Properties

Group [Smart Industry] Area - 1 readings

Size auto

Label Temperature readings


Type ☒ Line chart ☐ enlarge points

X-axis last 2 minute OR 1000 points

X-axis Label HH:mm:ss ☐ as UTC

Y-axis min 20 max 90

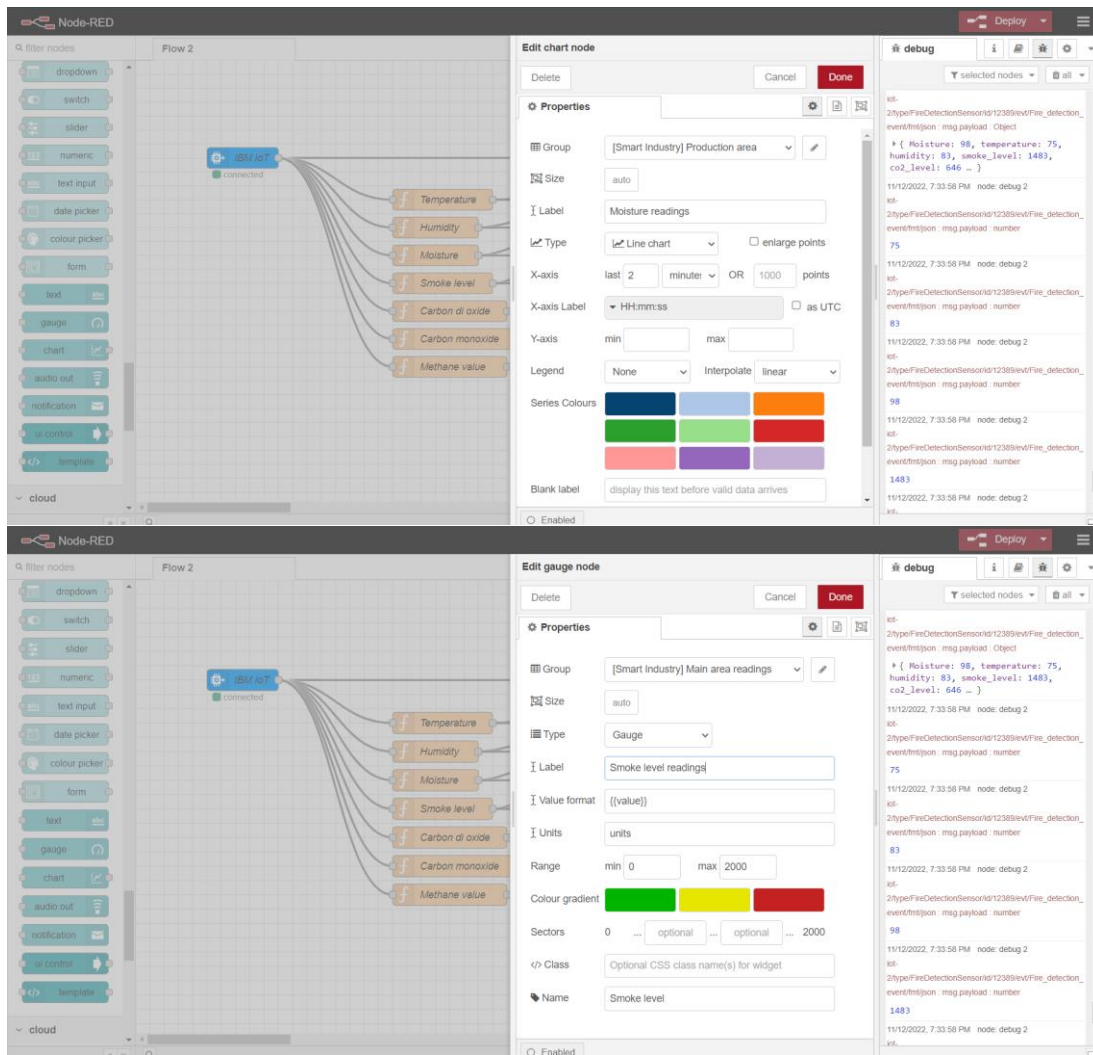
Legend Show Interpolate linear

Series Colours 

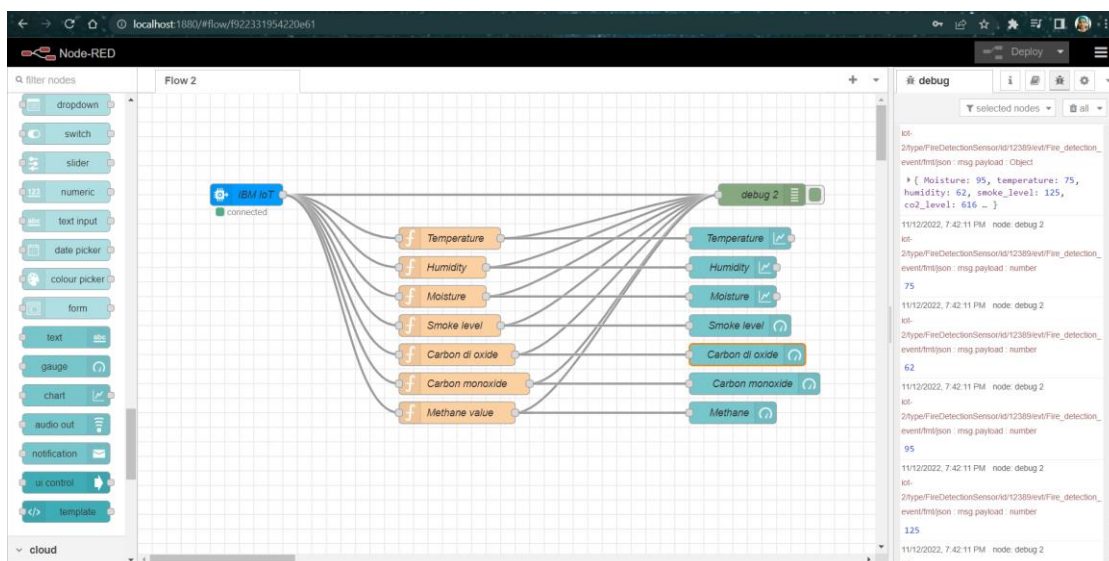
Blank label display this text before valid data arrives

Class Optional CSS class name(s) for widget

Name Temperature



- The flow between nodes after connecting the functions with debug and charts and gauge.
Click on deploy button.



10. The data generated in the cloud will be displayed in the node-red.

