

## **Develop A Web Application Using Node-RED Service.**

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Project Title	<b>Gas Leakage Monitoring &amp; Alerting System For Industries</b>
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We have successfully developed the web application using Node-Red Service.

The screenshot displays the Node-RED web interface in a browser. The main workspace shows a flow named 'Flow 1' with the following components:

- IBM IoT Node:** A blue node labeled 'connected' that triggers the flow.
- Function Nodes:** Four orange nodes labeled 'Humidity', 'Hazardous\_gas', 'Temperature', and 'Pressure' are connected to the IBM IoT node.
- Output Nodes:** Four teal nodes labeled 'Humidity\_Value', 'Hazardous\_gas', 'Temperature', and 'Pressure' are connected to the function nodes. Each output node has a circular refresh icon.
- msg.payload Node:** A green node that receives data from the function nodes.
- HTTP Node:** A yellow node labeled 'http' is connected to the 'msg.payload' node.
- Value Node:** An orange node labeled 'Value' is connected to the 'http' node.
- GET Node:** A yellow node labeled '[get] /data' is connected to the 'Value' node.

The right sidebar shows the 'debug' console with a list of messages. The messages are JSON objects containing sensor data:

```
{ "type": "GOT", "id": "GOT_1", "event": "1", "format": "json", "payload": { "number": 44 } }
```

```
{ "type": "GOT", "id": "GOT_1", "event": "1", "format": "json", "payload": { "number": 35 } }
```

```
{ "type": "GOT", "id": "GOT_1", "event": "1", "format": "json", "payload": { "number": 37 } }
```

```
{ "type": "GOT", "id": "GOT_1", "event": "1", "format": "json", "payload": { "number": 14 } }
```

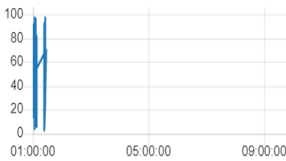
```
{ "type": "GOT", "id": "GOT_1", "event": "1", "format": "json", "payload": { "Hazardousgas": 22, "Temperature": 64, "Humidity": 54, "Pressure": 14 } }
```

```
{ "type": "GOT", "id": "GOT_1", "event": "1", "format": "json", "payload": { "number": 64 } }
```

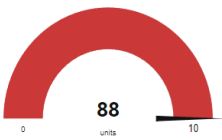
SmarrHomeGoms

SmarrHomeGoms

Hazardous\_gas



Temperature



Pressure



```
{"Temperature":12,"Humidity":30,"Hazardousgas":54,"Pressure":48}
```