


## Sprint 2:

**Connect IBM IOT in and Debug 1 and Deploy:**



The image shows the Node-RED web interface. On the left, the 'common' nodes palette includes 'inject', 'debug', 'complete', 'catch', 'status', 'link in', 'link call', 'link out', and 'comment'. The 'function' nodes palette includes 'function', 'switch', 'change', and 'range'. The main workspace, titled 'Flow 1', contains a single flow with two nodes: 'IBM IoT' (blue) and 'debug 1' (green). The 'IBM IoT' node has a green 'connected' indicator. On the right, the 'debug' console displays a log of messages. The messages are structured as follows:

```
2/type/PNT2022TMD47477/98/PNT2022TMD47477/ev1
event_1/midjson : msg.payload : Object
  { temperature: 86, humidity: 31,
    soil moisture: 54 }
11/5/2022, 11:20:36 AM node: debug 1
iot:
2/type/PNT2022TMD47477/98/PNT2022TMD47477/ev1
event_1/midjson : msg.payload : Object
  { temperature: 8, humidity: 64,
    soil moisture: 59 }
11/5/2022, 11:20:39 AM node: debug 1
iot:
2/type/PNT2022TMD47477/98/PNT2022TMD47477/ev1
event_1/midjson : msg.payload : Object
  { temperature: 98, humidity: 96,
    soil moisture: 53 }
11/5/2022, 11:20:44 AM node: debug 1
iot:
2/type/PNT2022TMD47477/98/PNT2022TMD47477/ev1
event_1/midjson : msg.payload : Object
  { temperature: 96, humidity: 35,
    soil moisture: 25 }
11/5/2022, 11:20:50 AM node: debug 1
iot:
2/type/PNT2022TMD47477/98/PNT2022TMD47477/ev1
event_1/midjson : msg.payload : Object
  { temperature: 78, humidity: 1,
    soil moisture: 28 }
```

## Download and Install NODE JS:






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## Downloads

Latest LTS Version: 18.12.1 (includes npm 8.19.2)

Download the Node.js source code or a pre-built installer for your platform, and start developing today.

LTS Recommended For Most Users	Current Latest Features	
 <b>Windows Installer</b> <a href="#">node-v18.12.1-x64.msi</a>	 <b>macOS Installer</b> <a href="#">node-v18.12.1.pkg</a>	 <b>Source Code</b> <a href="#">node-v18.12.1.tar.gz</a>

Windows Installer (.msi)

Windows Binary (.zip)

macOS Installer (.pkg)

macOS Binary (.tar.gz)

Linux Binaries (x64)

32-bit	64-bit
32-bit	64-bit
64-bit / ARM64	
64-bit	ARM64
64-bit	

## Edit gauge node:

The screenshot displays the Node-RED web interface. On the left, a sidebar lists various dashboard widgets under the 'dashboard' category, including button, dropdown, switch, slider, numeric, text input, date picker, colour picker, form, text, gauge, chart, audio out, notification, and ui control. The main workspace shows a flow with an 'IBM IoT' node connected to a 'debug 1' node, and a 'gauge' node below it. The 'gauge' node is selected, and its configuration panel is open on the right.

**Edit gauge node**

Properties

- Group: [CROP] MONITORING
- Size: auto
- Type: Gauge
- Label: TEMPERATURE
- Value format: {{value}}
- Units: C
- Range: min 0 max 100
- Colour gradient: [Green, Yellow, Red]
- Sectors: 0 optional optional 100
- Class: Optional CSS class name(s) for widget
- Name:

Enabled

**debug**

```
2/type:PNT2022TMD47477/68/PNT2022TMD47477/ev1
/event_1/rmt/json : msg.payload : Object
  { temperature: 28, humidity: 26,
    soil moisture: 75 }
11/5/2022, 11:24:38 AM node debug 1
IoT:
2/type:PNT2022TMD47477/68/PNT2022TMD47477/ev1
/event_1/rmt/json : msg.payload : Object
  { temperature: 2, humidity: 82,
    soil moisture: 53 }
11/5/2022, 11:24:44 AM node debug 1
IoT:
2/type:PNT2022TMD47477/68/PNT2022TMD47477/ev1
/event_1/rmt/json : msg.payload : Object
  { temperature: 48, humidity: 95,
    soil moisture: 82 }
11/5/2022, 11:24:50 AM node debug 1
IoT:
2/type:PNT2022TMD47477/68/PNT2022TMD47477/ev1
/event_1/rmt/json : msg.payload : Object
  { temperature: 33, humidity: 40,
    soil moisture: 90 }
11/5/2022, 11:24:56 AM node debug 1
IoT:
2/type:PNT2022TMD47477/68/PNT2022TMD47477/ev1
/event_1/rmt/json : msg.payload : Object
  { temperature: 43, humidity: 2,
    soil moisture: 86 }
```

**Setup node.js and configure command prompt for error check.open node-red from the generated link:**

```
node-red
4 Nov 18:48:05 - [info] Node-RED version: v3.0.2
4 Nov 18:48:05 - [info] Node.js version: v18.12.0
4 Nov 18:48:05 - [info] Windows_NT 10.0.19044 x64 LE
4 Nov 18:48:26 - [info] Loading palette nodes
4 Nov 18:48:44 - [info] Settings file : C:\Users\ELCOT\.node-red\settings.js
4 Nov 18:48:45 - [info] Context store : 'default' [module=memory]
4 Nov 18:48:45 - [info] User directory : \Users\ELCOT\.node-red
4 Nov 18:48:45 - [warn] Projects disabled : editorTheme.projects.enabled=false
4 Nov 18:48:45 - [info] Flows file : \Users\ELCOT\.node-red\flows.json
4 Nov 18:48:45 - [info] Creating new flow file
4 Nov 18:48:45 - [warn]

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Your flow credentials file is encrypted using a system-generated key.

If the system-generated key is lost for any reason, your credentials
file will not be recoverable, you will have to delete it and re-enter
your credentials.

You should set your own key using the 'credentialSecret' option in
your settings file. Node-RED will then re-encrypt your credentials
file using your chosen key the next time you deploy a change.
-----
4 Nov 18:48:45 - [warn] Encrypted credentials not found
4 Nov 18:48:45 - [info] Starting flows
4 Nov 18:48:46 - [info] Started flows
4 Nov 18:48:46 - [info] Server now running at http://127.0.0.1:1880/
```