

Sprint 2 Node RED Web Application

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Project Name	Smart Farmer - IoT enabled smart Farming Application

The screenshot displays the Node-RED web application interface in a browser. The address bar shows the URL: `smart-farmer123.eu-gb.mybluemix.net/red/#flow/448f2ed482b1f3e1`. The interface includes a left sidebar with node categories (common and function), a central workspace for building flows, and a right sidebar for debugging.

Flow 1:

- light on** and **light off** nodes are connected to the **msg.payload** node.
- The **msg.payload** node is connected to the **http** node.
- A **[get]/command** node is connected to a **function 2** node, which is also connected to the **http** node.
- The **http** node is connected to the **IBM IoT** node, which is marked as **connected**.

Debug Console:

```
{
  "randomNumber": 92,
  "temp": 28,
  "hum": 86
}
```

12/11/2022, 11:04:36 node: f2f2649a.0d0d98
iot-2/type/raspberrypi/id/12345/evt/event_1/fmt/json :
msg.payload : Object
>{
 "randomNumber": 17,
 "temp": 24,
 "hum": 68
}

12/11/2022, 11:04:39 node: f2f2649a.0d0d98
iot-2/type/raspberrypi/id/12345/evt/event_1/fmt/json :
msg.payload : Object
>{
 "randomNumber": 91,
 "temp": 67,
 "hum": 65
}

12/11/2022, 11:04:42 node: f2f2649a.0d0d98
iot-2/type/raspberrypi/id/12345/evt/event_1/fmt/json :
msg.payload : Object
>{
 "randomNumber": 61,
 "temp": 20,
 "hum": 75
}

12/11/2022, 11:04:45 node: f2f2649a.0d0d98
iot-2/type/raspberrypi/id/12345/evt/event_1/fmt/json :
msg.payload : Object
>{
 "randomNumber": 2,
 "temp": 13,
 "hum": 81
}

12/11/2022, 11:04:48 node: f2f2649a.0d0d98
iot-2/type/raspberrypi/id/12345/evt/event_1/fmt/json :
msg.payload : Object
>{
 "randomNumber": 40,
 "temp": 53,
 "hum": 77
}

12/11/2022, 11:04:51 node: f2f2649a.0d0d98
iot-2/type/raspberrypi/id/12345/evt/event_1/fmt/json :
msg.payload : Object

Node-RED interface showing a flow named "Flow 1" and a debug console.

Flow 1:

- Nodes:**
 - IBM IoT** (connected)
 - Temp** (function node)
 - Hum** (function node)
 - msg.payload** (message node)
 - Temp** (chart node)
 - humid** (chart node)
 - [get]/sensor** (function node)
 - function 1** (function node)
 - http** (http node)
- Connections:**
 - IBM IoT** connects to **Temp**, **Hum**, and **msg.payload**.
 - Temp** connects to **Temp** (chart).
 - Hum** connects to **humid**.
 - [get]/sensor** connects to **function 1**.
 - function 1** connects to **http**.

Debug Console:

12/11/2022, 11:04:15 node: f2f2649a.0d0d98
iot-2/type/raspberrypi/d/12345/evt/event_1/fmt/json :
msg.payload : Object
{ randomNumber: 32, temp: 42, hum: 84 }

12/11/2022, 11:04:18 node: f2f2649a.0d0d98
iot-2/type/raspberrypi/d/12345/evt/event_1/fmt/json :
msg.payload : Object
{ randomNumber: 18, temp: 9, hum: 70 }

12/11/2022, 11:04:21 node: f2f2649a.0d0d98
iot-2/type/raspberrypi/d/12345/evt/event_1/fmt/json :
msg.payload : Object
{ randomNumber: 13, temp: 79, hum: 75 }

12/11/2022, 11:04:24 node: f2f2649a.0d0d98
iot-2/type/raspberrypi/d/12345/evt/event_1/fmt/json :
msg.payload : Object
{ randomNumber: 14, temp: 38, hum: 75 }

12/11/2022, 11:04:27 node: f2f2649a.0d0d98
iot-2/type/raspberrypi/d/12345/evt/event_1/fmt/json :
msg.payload : Object
{ randomNumber: 96, temp: 32, hum: 91 }

12/11/2022, 11:04:30 node: f2f2649a.0d0d98
iot-2/type/raspberrypi/d/12345/evt/event_1/fmt/json :
msg.payload : Object
{ randomNumber: 14, temp: 69, hum: 92 }