

SPRINT-2

Team ID	PNT2022TMID42646
<u>Project Name</u>	Smart farmer - IoT Enabled smart farming application.

Create device in the Iot Watson platform

Browser tabs: You are signed in, IBM Watson IoT, code - venkatesh, IBM, IBM-EPBL/IBM-P, Node-RED: node, Resource list - IB, +

URL: ma3ge3.internetofthings.ibmcloud.com/dashboard/devices/browse/add

IBM Watson IoT Platform

prathipathangaraj@gmail.com
ID: ma3ge3

Navigation: Browse, Action, Device Types, Interfaces

Add Device

Progress: Identity (selected), Device Information, Security, Summary

Select a device type for the device that you are adding and give the device a unique ID.

Device Type: Smartfarmer_02

Device ID: Smartfarmer

Buttons: Cancel, Next

Browse Devices

0 Simulations running

You are signed in

IBM Watson IoT Platform

code - venkatesh

IBM

IBM-EPBL/IBM-P

Node-RED : node

Resource list - IBI

ma3ge3.internetofthings.ibmcloud.com/dashboard/devices/browse/add

prathipathangaraj@gmail.com
ID: ma3ge3

IBM Watson IoT Platform

Browse

Action

Device Types

Interfaces

+

⚙️

👤

🔍

📶

🔒

⚙️

Add Device

✓ Identity

● Device Information

○ Security

○ Summary

You can modify the default device information and enter more information about the device for identification purposes.

Serial Number

Enter Serial Number

Model

Enter Model

Description

Enter Description

Hardware Version

Enter Hardware Version

Manufacturer

Enter Manufacturer

Device Class

Enter Device Class

Firmware Version

Enter Firmware Version

Descriptive Location

Enter Descriptive Location

Add Metadata +

0 Simulations running

You are signed in

IBM Watson IoT Platform

code - venkatesh

IBM

IBM-EPBL/IBM-P

Node-RED : node

Resource list - IB

ma3ge3.internetofthings.ibmcloud.com/dashboard/devices/browse/add

prathipathangaraj@gmail.com
ID: ma3ge3

IBM Watson IoT Platform

Browse

Action

Device Types

Interfaces

(default)

Allow the service to generate an authentication token for you. Tokens are 18 characters and contain a mix of alphanumeric characters and symbols. The token is returned to you at the end of the device registration process.

Authentication Token

venkatesh@23

Make a note of the generated token. Lost authentication tokens cannot be recovered. Tokens are encrypted before being stored.

Authentication token are encrypted before we store them.

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.

Back

Next

Browse Devices

0 Simulations running

You are signed in

IBM Watson IoT Platform

code - venkatesh

IBM

IBM-EPBL/IBM-P

Node-RED : node

Resource list - IB

ma3ge3.internetofthings.ibmcloud.com/dashboard/devices/browse/add

prathipathangaraj@gmail.com

ID: ma3ge3

IBM Watson IoT Platform

Browse

Action

Device Types

Interfaces

Identity

Device Information

Security

Summary

Verify that the following information is correct then select Finish

Device Type

Smartfarmer_02

Device ID

Smartfarmer

View Metadata

Security Token

venkatesh@23

0 Simulations running

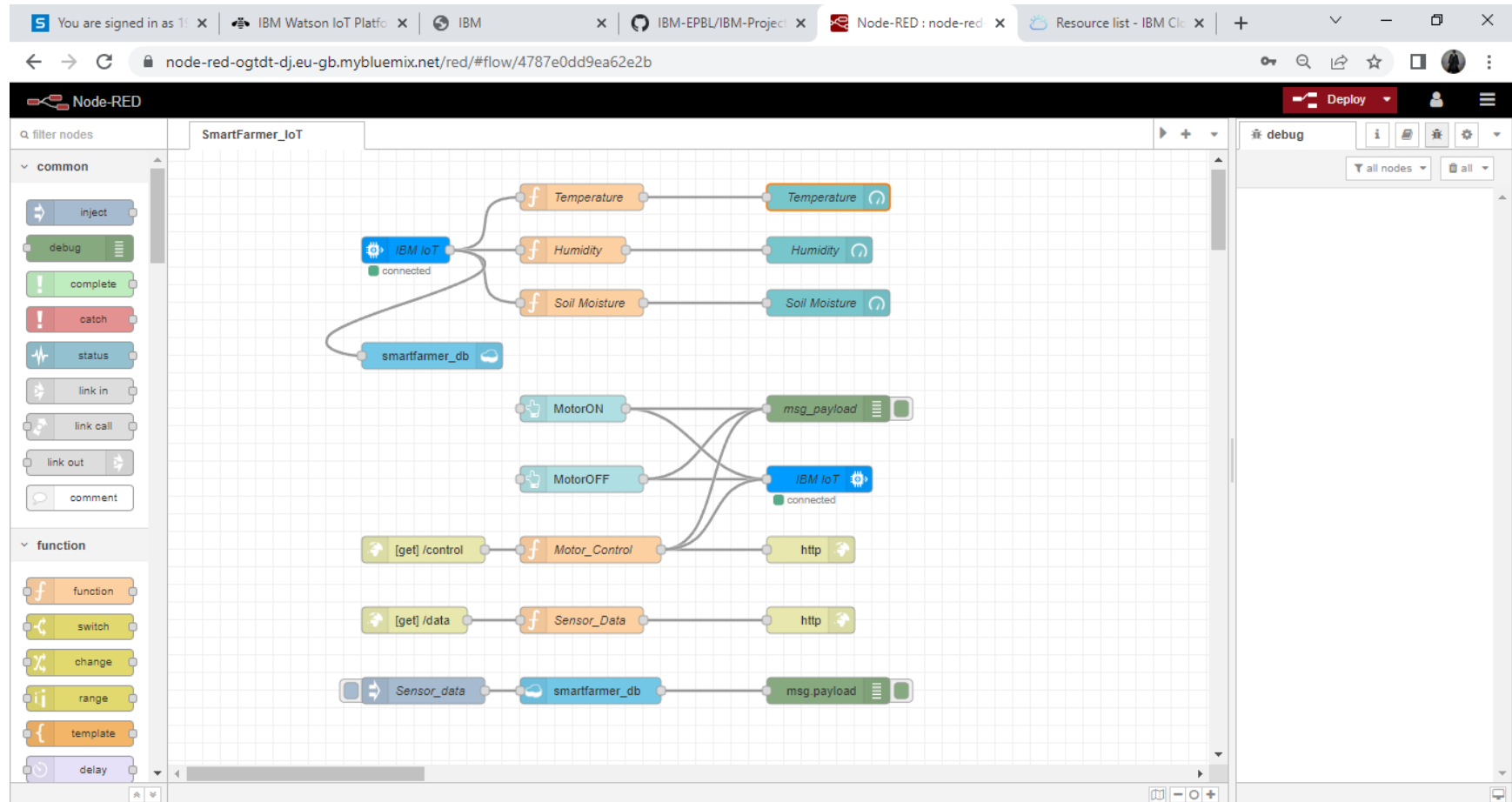
Output

The screenshot displays the IBM Watson IoT Platform interface. The top navigation bar includes the platform name and user information (prathipathangaraj@gmail.com, ID: ma3ge3). The left sidebar contains icons for various functions. The main content area shows the 'Browse' tab selected, with a sub-tab 'Recent Events' active for the device 'iot_device_1'. The device status is 'Disconnected'. Below the tabs, a message states: 'The recent events listed show the live stream of data that is coming and going from this device.' A table lists five recent events, each with a unique ID, a JSON value, the format 'json', and a timestamp 'a few seconds ago'. A tooltip at the bottom right indicates '2 Simulations running'.

Event	Value	Format	Last Received
event_1	{"temperature":75,"humidity":53,"soil_moisture"...	json	a few seconds ago
event_1	{"temperature":72,"humidity":56,"soil_moisture"...	json	a few seconds ago
event_1	{"temperature":78,"humidity":58,"soil_moisture"...	json	a few seconds ago
event_1	{"temperature":79,"humidity":59,"soil_moisture"...	json	a few seconds ago
event_1	{"temperature":77,"humidity":50,"sc		

2 Simulations running

Workflow for IoT scenarios using local Node Red



Node-RED interface showing a flow for SmartFarmer IoT. The flow includes nodes for IBM IoT, smartfarmer_db, Temperature, Humidity, Soil Moisture, MotorON, MotorOFF, Motor_Control, Sensor_Data, and smartfarmer_db. The right panel shows the 'Edit function node' configuration for the 'Temperature' node, with the following code:

```
1 msg.payload=msg.payload.temperature
2 global.set('t',msg.payload)
3 return msg;
```

The interface also displays a 'debug' console on the right and a 'Deploy' button at the top right.

