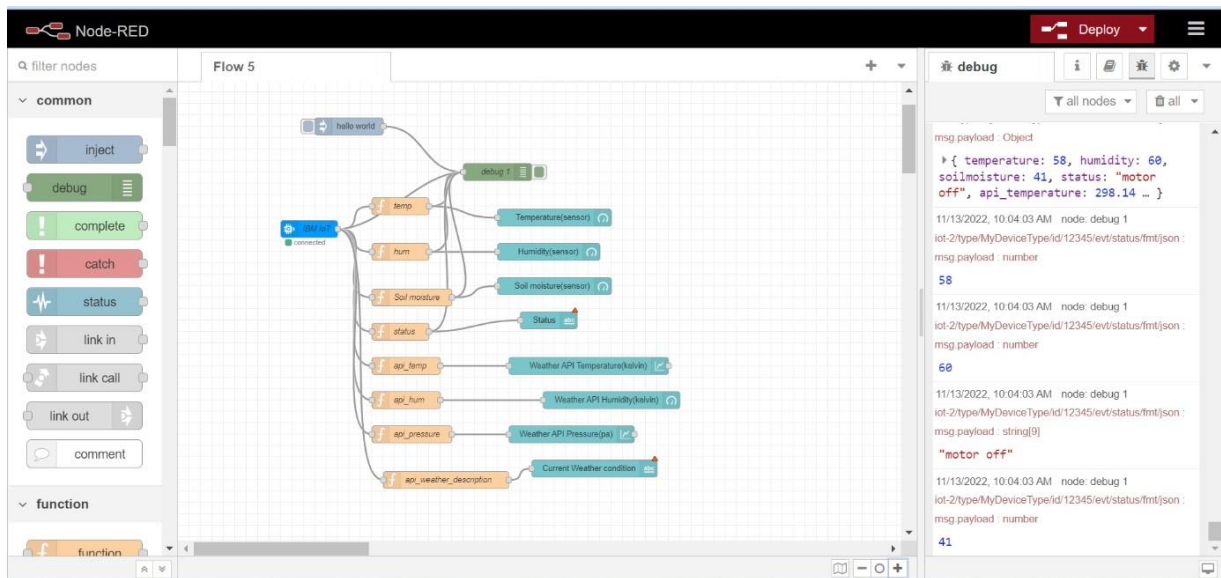


## Project Development

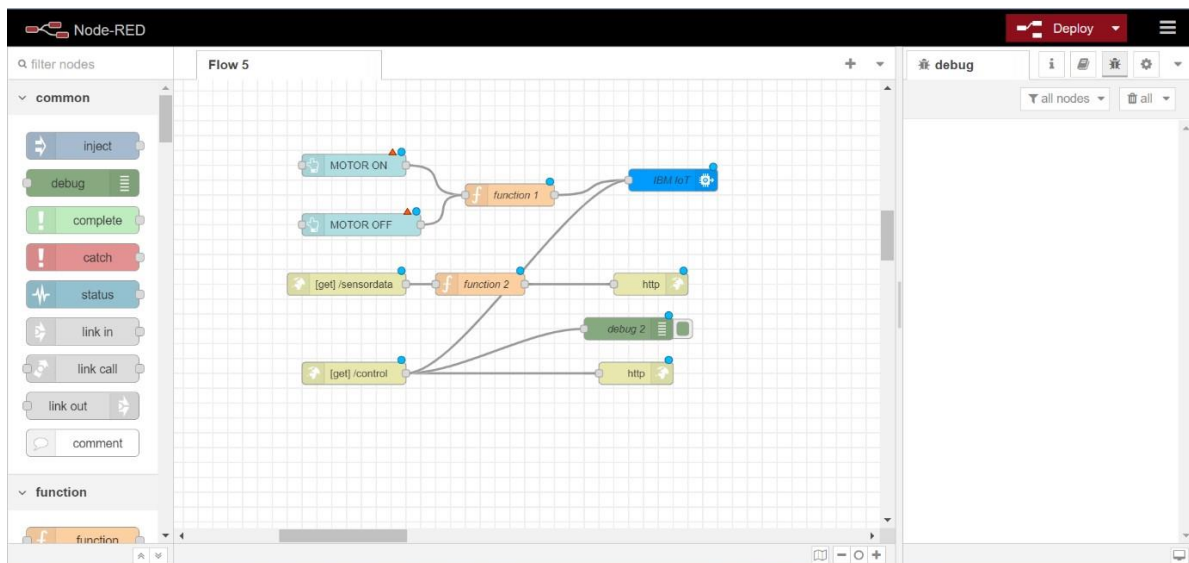
### Delivery of Sprint-2

Date	5 NOV 2022
Team ID	PNT2022TMID17431
Project Name	Project -Smart farmer-IOT enabled smart Farming Application

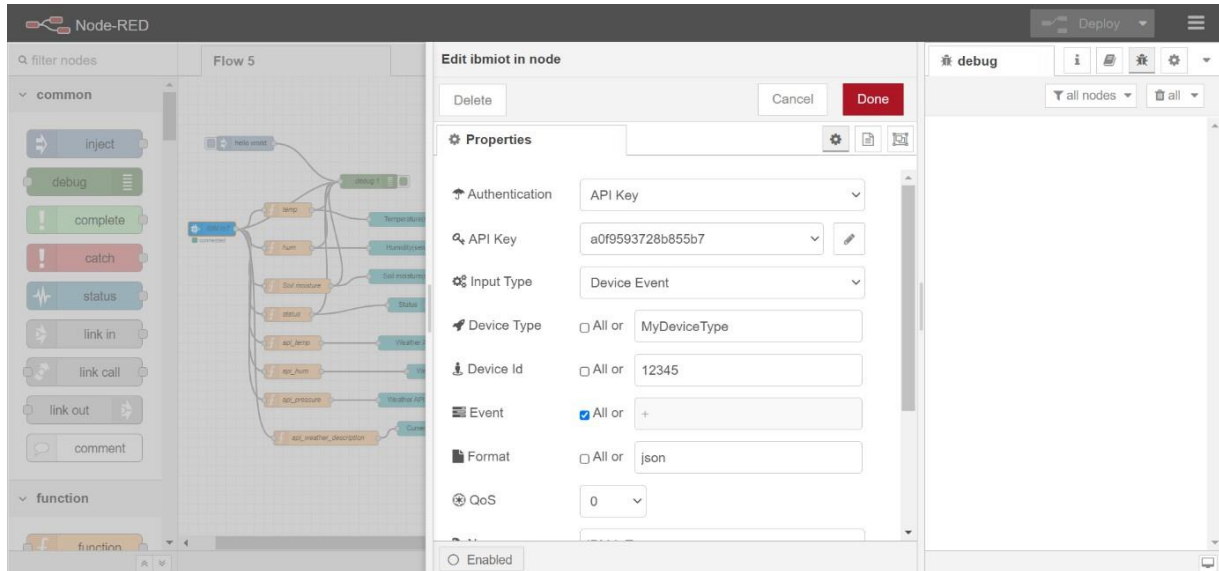
#### Flow:1



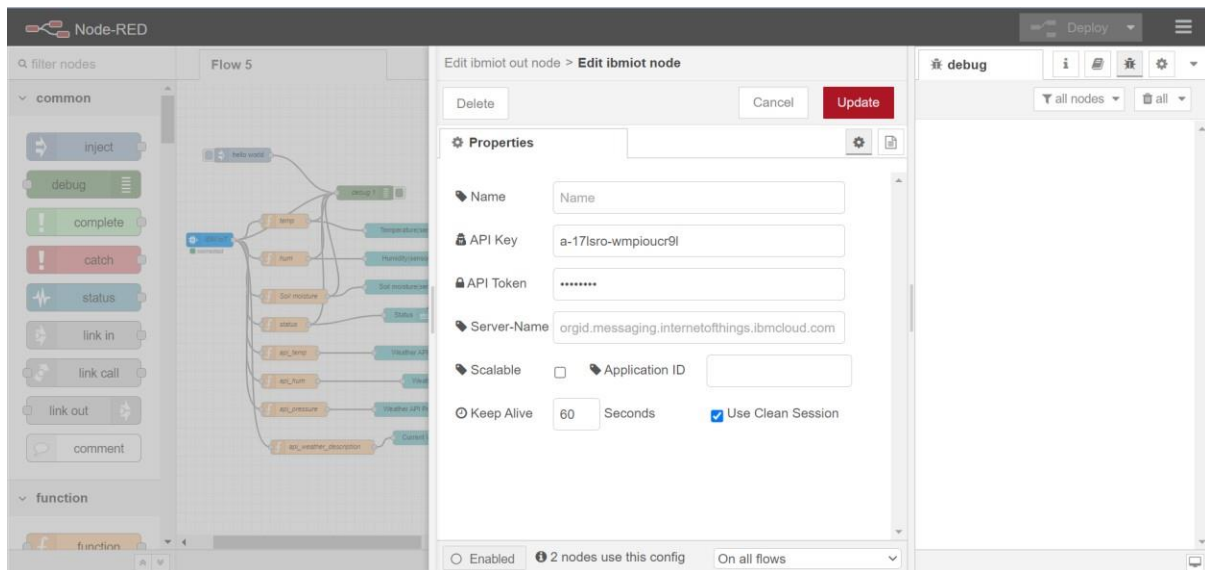
#### Flow:2



## Flow:1 Configuring All Nodes With IBM IOT Platform



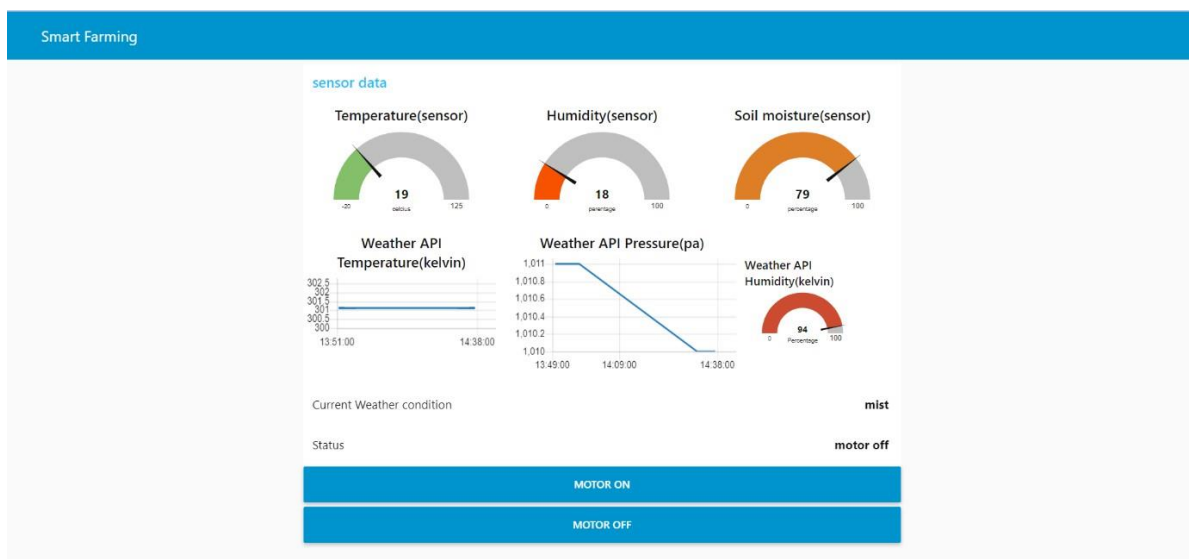
## Flow:2 Configuring All Nodes With IBM IOT Platform



## Execution of Python Program

```
CA:\Program Files\WindowsApps\PythonSoftwareFoundation.Python.3.8_3.8.2800.0_x64__qbz5n2kfra8p0\python3.8.exe
erature': 298.14, 'api_pressure': 1013, 'api_humidity': 94, 'api_weather_description': 'mist'}
Published data Successfully: %s {'temperature': 2, 'humidity': 93, 'soilmoisture': 52, 'status': 'motor off', 'api_tempe
rature': 298.14, 'api_pressure': 1013, 'api_humidity': 94, 'api_weather_description': 'mist'}
Published data Successfully: %s {'temperature': 100, 'humidity': 100, 'soilmoisture': 63, 'status': 'motor off', 'api_te
mperature': 298.14, 'api_pressure': 1013, 'api_humidity': 94, 'api_weather_description': 'mist'}
Published data Successfully: %s {'temperature': -3, 'humidity': 9, 'soilmoisture': 28, 'status': 'motor off', 'api_tempe
rature': 298.14, 'api_pressure': 1013, 'api_humidity': 94, 'api_weather_description': 'mist'}
Published data Successfully: %s {'temperature': 96, 'humidity': 93, 'soilmoisture': 24, 'status': 'motor off', 'api_tem
perature': 298.14, 'api_pressure': 1013, 'api_humidity': 94, 'api_weather_description': 'mist'}
Published data Successfully: %s {'temperature': -5, 'humidity': 64, 'soilmoisture': 99, 'status': 'motor off', 'api_tem
perature': 298.14, 'api_pressure': 1013, 'api_humidity': 94, 'api_weather_description': 'mist'}
Published data Successfully: %s {'temperature': 8, 'humidity': 40, 'soilmoisture': 24, 'status': 'motor off', 'api_tempe
rature': 298.14, 'api_pressure': 1013, 'api_humidity': 94, 'api_weather_description': 'mist'}
Published data Successfully: %s {'temperature': 15, 'humidity': 25, 'soilmoisture': 70, 'status': 'motor off', 'api_tem
perature': 298.14, 'api_pressure': 1013, 'api_humidity': 94, 'api_weather_description': 'mist'}
Published data Successfully: %s {'temperature': 116, 'humidity': 59, 'soilmoisture': 65, 'status': 'motor off', 'api_tem
perature': 298.14, 'api_pressure': 1013, 'api_humidity': 94, 'api_weather_description': 'mist'}
Published data Successfully: %s {'temperature': 72, 'humidity': 71, 'soilmoisture': 13, 'status': 'motor off', 'api_tem
perature': 298.14, 'api_pressure': 1013, 'api_humidity': 94, 'api_weather_description': 'mist'}
Published data Successfully: %s {'temperature': 104, 'humidity': 82, 'soilmoisture': 90, 'status': 'motor off', 'api_tem
perature': 298.14, 'api_pressure': 1013, 'api_humidity': 94, 'api_weather_description': 'mist'}
Published data Successfully: %s {'temperature': 63, 'humidity': 82, 'soilmoisture': 98, 'status': 'motor off', 'api_tem
perature': 298.14, 'api_pressure': 1013, 'api_humidity': 94, 'api_weather_description': 'mist'}
Published data Successfully: %s {'temperature': 27, 'humidity': 57, 'soilmoisture': 21, 'status': 'motor off', 'api_tem
perature': 298.14, 'api_pressure': 1013, 'api_humidity': 94, 'api_weather_description': 'mist'}
Published data Successfully: %s {'temperature': 107, 'humidity': 57, 'soilmoisture': 44, 'status': 'motor off', 'api_tem
perature': 298.14, 'api_pressure': 1013, 'api_humidity': 94, 'api_weather_description': 'mist'}
Published data Successfully: %s {'temperature': -15, 'humidity': 67, 'soilmoisture': 41, 'status': 'motor off', 'api_tem
perature': 298.14, 'api_pressure': 1013, 'api_humidity': 94, 'api_weather_description': 'mist'}
```

## Web UI Output



## IBM Watson IoT Platform Device Connect & Live Data

The screenshot displays the IBM Watson IoT Platform interface. At the top, the header reads "IBM Watson IoT Platform". On the right, there is a user profile icon and the text "211719106081@smartintzm.com" and "ID: 171ere". Below the header, there is a navigation bar with tabs: "Browse", "Action", "Device Types", and "Interfaces". The "Browse" tab is active, and a search bar is visible. Below the navigation bar, there is a table listing devices. The first device is selected, showing its "Device ID" as "12345" and "Status" as "Connected". Below the device list, there is a section titled "Identity Device Information" with a sub-header "The recent events listed show the live stream". Below this, there is a table with two columns: "Event" and "Value". The table contains five rows, all with the event "status" and values representing temperature and humidity data. A modal window titled "Event Payload" is open in the foreground, displaying the JSON payload for the selected event. The payload is a JSON object with the following fields: "temperature": 118, "humidity": 84, "soilmoisture": 16, "status": "motor off", "api\_temperature": 285.14, "api\_pressure": 1013, "api\_humidity": 84, and "api\_weather\_description": "mist". The modal window also shows the "Event Name" as "status" and the "Time Received" as "Nov 13, 2022 10:30 AM".

IBM Watson IoT Platform

211719106081@smartintzm.com  
ID: 171ere

Browse Action Device Types Interfaces

Q

Device ID Status

12345 Connected

Identity Device Information

The recent events listed show the live stream

Event	Value
status	("temperature":82,"humidity":100,"soilmoisture":100,"api_temperature":285.14,"api_pressure":1013,"api_humidity":84,"api_weather_description": "mist")
status	("temperature":74,"humidity":100,"soilmoisture":100,"api_temperature":285.14,"api_pressure":1013,"api_humidity":84,"api_weather_description": "mist")
status	("temperature":77,"humidity":100,"soilmoisture":100,"api_temperature":285.14,"api_pressure":1013,"api_humidity":84,"api_weather_description": "mist")
status	("temperature":72,"humidity":100,"soilmoisture":100,"api_temperature":285.14,"api_pressure":1013,"api_humidity":84,"api_weather_description": "mist")
status	("temperature":102,"humidity":100,"soilmoisture":100,"api_temperature":285.14,"api_pressure":1013,"api_humidity":84,"api_weather_description": "mist")

Event Payload

Event Name status

Time Received Nov 13, 2022 10:30 AM

```

1 {
2   "temperature": 118,
3   "humidity": 84,
4   "soilmoisture": 16,
5   "status": "motor off",
6   "api_temperature": 285.14,
7   "api_pressure": 1013,
8   "api_humidity": 84,
9   "api_weather_description": "mist"
10 }
```

Added By

211719106081@smartintzm.com

Add Device