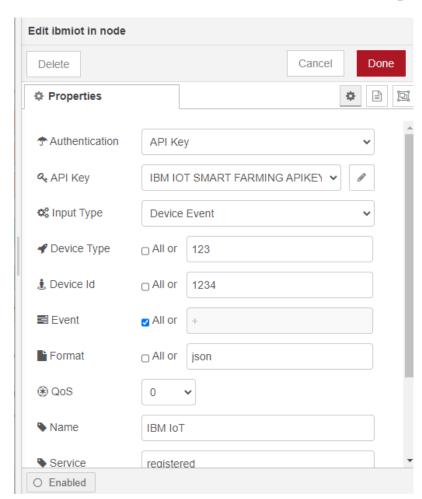
# **SPRINT DELIVERY-3**

DATE	17 November 2022
TEAM ID	PNT2022TMID52158
PROJECT NAME	Smart Farmer - IoT Enabled Smart Farming Application

# **Establishing Node-Red connection:**

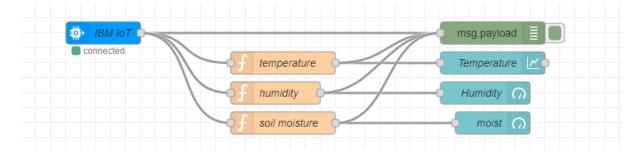
## **Let Configuration of Node-Red to collect IBM cloud data:**

Ibmiot in collect the data's in the device display.



IBM in node

# **4**Get separate data using nodes:



Nodes connected in following manner to get each reading separately

# **4** Java script Code in Temperature, Humidity and soil moisture:

#### **\*** Temperature:

```
msg.payload=msg.payload.temp
global.set("t",msg.payload)
return msg;
```

#### **\*** Humidity:

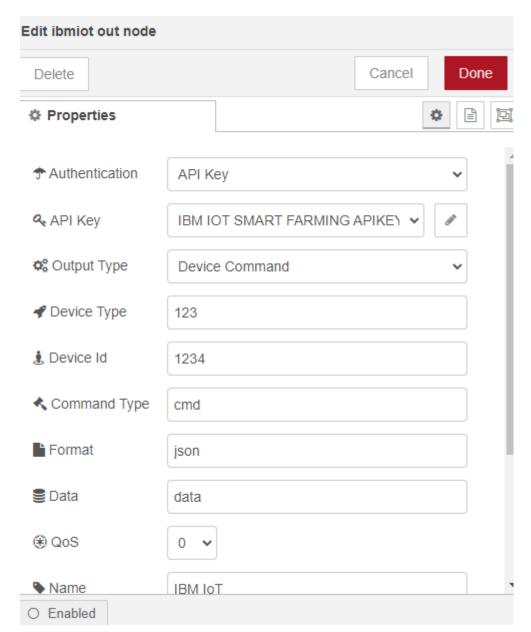
```
msg.payload=msg.payload.Humid
global.set("h",msg.payload)
return msg;
```

#### **❖** Soil moisture:

```
msg.payload=msg.payload.moist
global.set("m",msg.payload)
return msg;
```

#### **♣** Node-red to send command in ibm cloud

Ibmiot out node is used to send from Node-red to IBM watson device



Ibmiot out node

#### **Motor on and off Commands:**

#### > Motor on:

{"command":"motoron"}

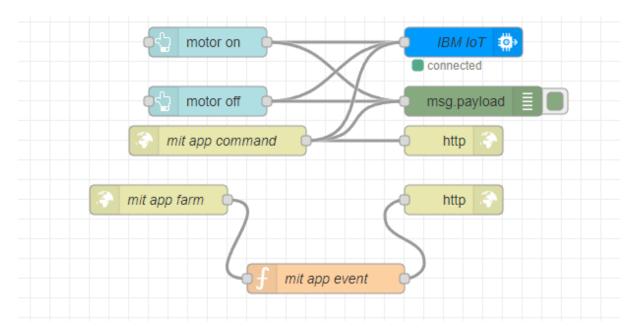
#### > Motor off:

{"command":"motoroff"}

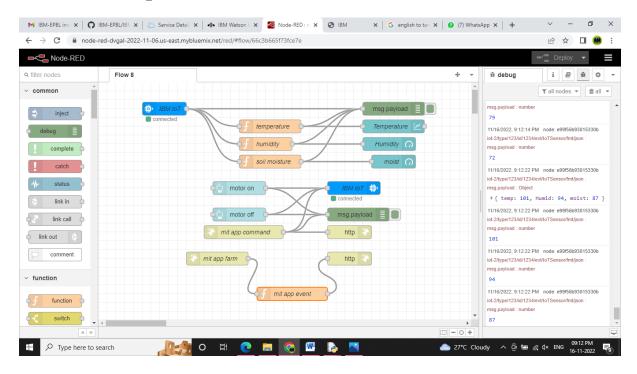
• Next connect the http request, response node to connect the website.

#### • Java script code

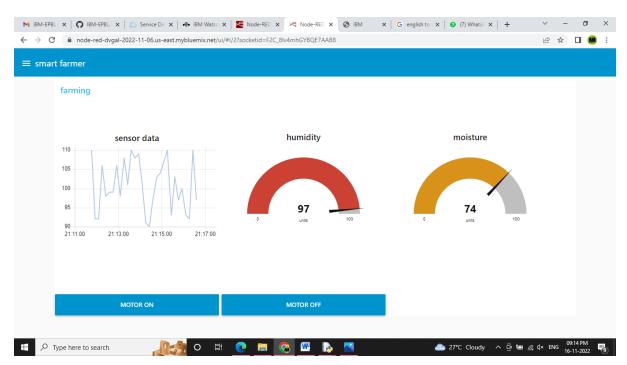
 $\label{eq:msgpayload} $$ msg.payload={"temp":global.get("t"),"humid":global.get("h"),"moist":global.get("m")} $$ return msg;$ 



## **4** The complete Node-red connections:

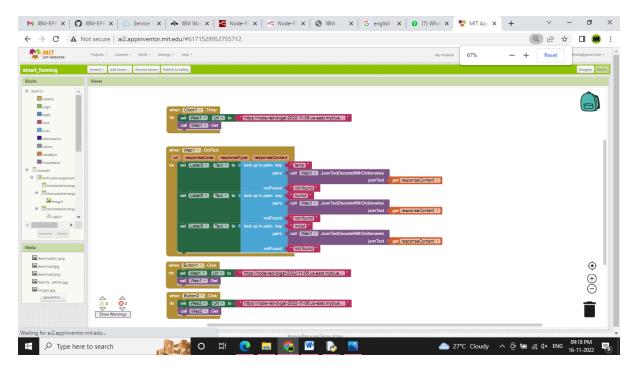


#### The Temperature, Humidity, soil moisture Dashboards:



# Connecting application with Node-Red and further application development:

**Connecting Node-red with MIT app inventor:** 



# **JIRA Software Sprint Planning:**

