

## SPRINT-3

### Node Red Connection to IBM Cloudant

Date	14 November 2022
Team ID	PNT2022TMID44647
Project Name	Smart Waste Management System for Metropolitan Cities

The screenshot displays the Node-RED web interface in a browser. The top navigation bar includes tabs for 'IBM App Develop...', 'Node-RED : 169...', 'Service Details', 'IBM Watson IoT', and 'sketch.ino - Wok'. The address bar shows the URL '169.51.195.182:30822/red/#flow/7fb31b74b7dcb66'. The main workspace, titled 'Flow 1', contains a flow with three nodes: a 'Hello Node-RED!' node, an 'IBM IoT' node (labeled 'connected'), and a 'msg.payload' node. The left sidebar shows a 'filter nodes' search bar and categories for 'input', 'output', and 'sequence' nodes. The right sidebar features a 'debug' tab with a log of messages, including a timestamp '11/17/2022, 11:19:45 PM' and a JSON object: 

```
{ "randomNumber": 95, "temp": 40, "hum": 94 }
```

. The bottom of the image shows a Windows taskbar with the search bar and various application icons.

IBM App Develop... x IBM App Develop... x Node-RED : 169... x Node-RED : 169... x Service Details - x IBM Watson IoT... x sketch.ino - Wok... x

rh494z.internetofthings.ibmcloud.com/dashboard/devices/browse

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IBM Watson IoT Platform 732319106002@smartinternz.com ID: rh494z

Browse Action Device Types Interfaces

12345 Disconnected CHANDRU Device 15 Nov 2022 05:11

Identity Device Information Recent Events State Logs

The recent events listed show the live stream of data that is coming and going from this device.

Event	Value	Format	Last Received
event_1	{"randomNumber":32,"temp":70,"hum":92}	json	a few seconds ago

Items per page 50 1-1 of 1 item

1 Simulation running

Type here to search

ENG 23:18 17-11-2022

IBM

Inbox (371) - yuvawh4@gmail.co

W sketch.ino - Wokwi Arduino and

+

wokwi.com/projects/348397181178217042

WOKWI

SAVE

SHARE

sketch.ino

Docs

sketch.ino

diagram.json

libraries.txt

Library Manager

```
1 #include <WiFi.h>
2 #include <PubSubClient.h>
3 WiFiClient wificlient;
4 String data3;
5 #define ORG "rh494z"
6 #define DEVICE_TYPE "CHANDRU"
7 #define DEVICE_ID "12345"
8 #define TOKEN "1234567890"
9 #define speed 0.034
10 #define led 14
11 char server[] = ORG ".messaging.internetofthings.ibmcloud.com";
12 char publishTopic[] = "iot-2/evt/CHANDRU/fmt/json";
13 char topic[] = "iot-2/cmd/home/fmt/String";
14 char authMethod[] = "use-token-auth";
15 char token[] = TOKEN;
16 char clientId[] = "d:" ORG ":" DEVICE_TYPE ":" DEVICE_ID;
17 PubSubClient client(server, 1883, wificlient);
18 void publishData();
19
20
21 const int trigpin = 5;
22 const int echopin = 18;
23 String command;
24 String data = "";
25
26 long duration;
27 float dist;
```

Simulation

00:13.497 55%

Editing Ultrasonic Distance Sensor

Distance: 94cm

Publish OK

Sending payload: {"Normal Distance":93.98}

Publish OK

Sending payload: {"Normal Distance":93.96}

Publish OK

Type here to search

ENG IN 2:50 AM 11/17/2022

Thank you for installing our exte xService Details - IBM Cloud xIBM Watson IoT Platform xSecurity alert - chandrudon08@ rh494z.internetofthings.ibmcloud.com/dashboard/devices/browse

IBM Watson IoT Platform732319106002@smartinternz.comID: rh494z

BrowseActionDevice TypesInterfacesAdd Device +

IdentityDevice InformationRecent EventsStateLogs

The recent events listed show the live stream of data that is coming and going from this device.

Event	Value	Format	Last Received
CHANDRU	{"Normal Distance":93.96}	json	a few seconds ago
CHANDRU	{"Normal Distance":93.96}	json	a few seconds ago
CHANDRU	{"Normal Distance":93.96}	json	a few seconds ago
CHANDRU	{"Normal Distance":93.96}	json	a few seconds ago
CHANDRU	{"Normal Distance":93.98}	json	a few seconds ago

0 Simulations running

Type here to search

