

Use Dashboard Nodes for Creating UI (Web Apps)

Team ID	PNT2022TMID29275
Project Name	Smart waste management system for metropolitan cities

Step 1: Open Node red and pick and place blocks according to python script flow

Step2: Make sure necessary blocks are installed in Node Red

Step 3: After creating the flow click on deploy

Step 4: Output is displayed in Node-red Debug window

Step 5: Also, web UI can also be seen by the URL followed by/ui

Screenshots: NODE – RED FLOW

The screenshot displays the Node-RED web interface with four parallel flows. Each flow consists of the following nodes in sequence:

- Flow 1:** `IBM IoT` (connected) → `function 1` → `msg.payload` → `http`
- Flow 2:** `IBM IoT` (connected) → `function 2` → `msg.payload` → `http`
- Flow 3:** `IBM IoT` (connected) → `function 3` → `msg.payload` → `http`
- Flow 4:** `IBM IoT` (connected) → `function 4` → `msg.payload` → `http`

The right sidebar shows the debug console with logs for each flow. The logs indicate that the `msg.payload` is a string (e.g., `string[36]`) and that the `http` node is sending a response (e.g., `200 OK`).

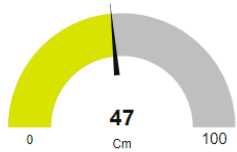
```
msg.payload : string[36]
"alert :No need to collect right now"
11/12/2022, 11:19:35 AM node: msg.payload
lat: 20type: BIN4Id: BIN4Id: evl: 50T: Sensor: fml: son :
msg.payload : undefined
undefined
11/12/2022, 11:19:36 AM node: msg.payload
lat: 20type: BIN4Id: BIN4Id: evl: 50T: Sensor: fml: son :
msg.payload : Object
{ dist: 48, load: 7 }
11/12/2022, 11:19:37 AM node: msg.payload
lat: 20type: BIN4Id: BIN4Id: evl: 50T: Sensor: fml: son :
msg.payload : number
48
11/12/2022, 11:19:44 AM node: msg.payload
lat: 20type: BIN4Id: BIN4Id: evl: 50T: Sensor: fml: son :
msg.payload : string[36]
"alert :No need to collect right now"
11/12/2022, 11:19:45 AM node: msg.payload
lat: 20type: BIN4Id: BIN4Id: evl: 50T: Sensor: fml: son :
msg.payload : undefined
undefined
11/12/2022, 11:19:46 AM node: msg.payload
lat: 20type: BIN4Id: BIN4Id: evl: 50T: Sensor: fml: son :
msg.payload : Object
{ dist: 18, load: 9 }
11/12/2022, 11:19:47 AM node: msg.payload
lat: 20type: BIN4Id: BIN4Id: evl: 50T: Sensor: fml: son :
msg.payload : number
18
11/12/2022, 11:19:54 AM node: msg.payload
lat: 20type: BIN4Id: BIN4Id: evl: 50T: Sensor: fml: son :
msg.payload : string[36]
"alert :No need to collect right now"
11/12/2022, 11:19:55 AM node: msg.payload
lat: 20type: BIN4Id: BIN4Id: evl: 50T: Sensor: fml: son :
msg.payload : undefined
undefined
11/12/2022, 11:19:56 AM node: msg.payload
lat: 20type: BIN4Id: BIN4Id: evl: 50T: Sensor: fml: son :
msg.payload : Object
{ dist: 38, load: 13 }
11/12/2022, 11:19:57 AM node: msg.payload
lat: 20type: BIN4Id: BIN4Id: evl: 50T: Sensor: fml: son :
msg.payload : number
38
```

NODE – RED UI

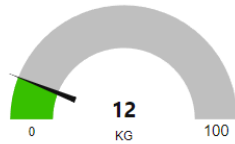
≡ control

control

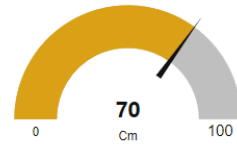
Distance 1



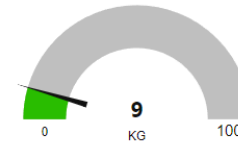
LOAD CELL 1



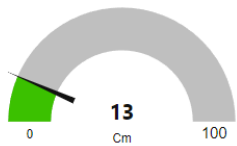
Distance 2



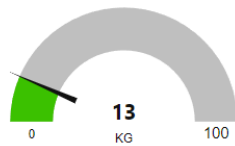
LOAD CELL 2



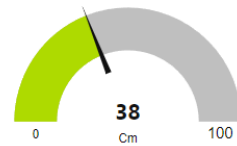
Distance 3



LOAD CELL 3



Distance 4



LOAD CELL 4

