

### Use Dashboard Nodes for Creating UI (Web Apps)

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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**

Node-RED interface showing a flow with four parallel processing paths (Flow 1, Flow 1, Flow 1, Flow 4) connected to an IBM IoT node.

The flow consists of the following nodes and connections:

- Flow 1 (Top):** IBM IoT node (connected) → Distance 1 → msg.payload → Distance 1 (output) and LOAD cell 1 → LOAD CELL 1 (output).
- Flow 1 (Middle):** [get]/sensor → function 1 → http.
- Flow 1 (Bottom):** IBM IoT node (connected) → Distance 2 → msg.payload → Distance 2 (output) and LOAD cell 2 → LOAD CELL 2 (output).
- Flow 1 (Bottom):** [get]/sensor → function 2 → http.
- Flow 4 (Top):** IBM IoT node (connected) → Distance 3 → msg.payload → Distance 3 (output) and LOAD cell 3 → LOAD CELL 3 (output).
- Flow 4 (Bottom):** [get]/sensor → function 3 → http.
- Flow 4 (Bottom):** IBM IoT node (connected) → Distance 4 → msg.payload → Distance 4 (output) and LOAD cell 4 → LOAD CELL 4 (output).
- Flow 4 (Bottom):** [get]/sensor → function 4 → http.

The debug console shows the following log entries:

```
msg.payload : string[36]
"alert :No need to collect right now"

11/12/2022, 11:19:35 AM node: msg.payload
cat 2type/BIN4/d/BIN4/DievtoTSensor/fm/json :
msg.payload : undefined
undefined

11/12/2022, 11:19:36 AM node: msg.payload
cat 2type/BIN4/d/BIN4/DievtoTSensor/fm/json :
msg.payload : Object
* { dist: 48, load: 7 }

11/12/2022, 11:19:37 AM node: msg.payload
cat 2type/BIN4/d/BIN4/DievtoTSensor/fm/json :
msg.payload : number
48

11/12/2022, 11:19:44 AM node: msg.payload
cat 2type/BIN4/d/BIN4/DievtoTSensor/fm/json :
msg.payload : string[36]
"alert :No need to collect right now"

11/12/2022, 11:19:45 AM node: msg.payload
cat 2type/BIN4/d/BIN4/DievtoTSensor/fm/json :
msg.payload : undefined
undefined

11/12/2022, 11:19:46 AM node: msg.payload
cat 2type/BIN4/d/BIN4/DievtoTSensor/fm/json :
msg.payload : Object
* { dist: 18, load: 9 }

11/12/2022, 11:19:47 AM node: msg.payload
cat 2type/BIN4/d/BIN4/DievtoTSensor/fm/json :
msg.payload : number
18

11/12/2022, 11:19:54 AM node: msg.payload
cat 2type/BIN4/d/BIN4/DievtoTSensor/fm/json :
msg.payload : string[36]
"alert :No need to collect right now"

11/12/2022, 11:19:55 AM node: msg.payload
cat 2type/BIN4/d/BIN4/DievtoTSensor/fm/json :
msg.payload : undefined
undefined

11/12/2022, 11:19:56 AM node: msg.payload
cat 2type/BIN4/d/BIN4/DievtoTSensor/fm/json :
msg.payload : Object
* { dist: 38, load: 13 }

11/12/2022, 11:19:57 AM node: msg.payload
cat 2type/BIN4/d/BIN4/DievtoTSensor/fm/json :
msg.payload : number
38
```

## NODE – RED UI

≡ control

control

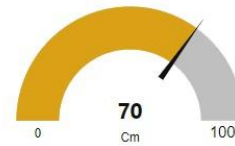
Distance 1



LOAD CELL 1



Distance 2



LOAD CELL 2



Distance 3



LOAD CELL 3



Distance 4



LOAD CELL 4

