

### 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

The screenshot displays the Node-RED web interface with four parallel flows (Flow 1, Flow 1, Flow 1, Flow 4) running. Each flow consists of the following nodes:

- Flow 1 (top):** IBM IoT node (connected) → Distance 1 function node → msg.payload node → Distance 1 output node.
- Flow 1 (middle):** [get]/sensor node → function 1 node → http node.
- Flow 1 (bottom):** IBM IoT node (connected) → Distance 2 function node → msg.payload node → Distance 2 output node.
- Flow 4 (bottom):** [get]/sensor node → function 2 node → http node.

The debug console on the right shows the output of these flows, including distance and load data. The console output is as follows:

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

11/12/2022, 11:19:35 AM node: msg.payload
iot-2type/BIN4Id/BIN4DlevelIoTSensorfmt/json :
msg.payload : undefined
undefined

11/12/2022, 11:19:36 AM node: msg.payload
iot-2type/BIN4Id/BIN4DlevelIoTSensorfmt/json :
msg.payload : Object
{ dist: 48, load: 7 }

11/12/2022, 11:19:37 AM node: msg.payload
iot-2type/BIN4Id/BIN4DlevelIoTSensorfmt/json :
msg.payload : number
48

11/12/2022, 11:19:44 AM node: msg.payload
iot-2type/BIN4Id/BIN4DlevelIoTSensorfmt/json :
msg.payload : string[36]
"alert :No need to collect right now"

11/12/2022, 11:19:45 AM node: msg.payload
iot-2type/BIN4Id/BIN4DlevelIoTSensorfmt/json :
msg.payload : undefined
undefined

11/12/2022, 11:19:46 AM node: msg.payload
iot-2type/BIN4Id/BIN4DlevelIoTSensorfmt/json :
msg.payload : Object
{ dist: 18, load: 9 }

11/12/2022, 11:19:47 AM node: msg.payload
iot-2type/BIN4Id/BIN4DlevelIoTSensorfmt/json :
msg.payload : number
18

11/12/2022, 11:19:54 AM node: msg.payload
iot-2type/BIN4Id/BIN4DlevelIoTSensorfmt/json :
msg.payload : string[36]
"alert :No need to collect right now"

11/12/2022, 11:19:55 AM node: msg.payload
iot-2type/BIN4Id/BIN4DlevelIoTSensorfmt/json :
msg.payload : undefined
undefined

11/12/2022, 11:19:56 AM node: msg.payload
iot-2type/BIN4Id/BIN4DlevelIoTSensorfmt/json :
msg.payload : Object
{ dist: 38, load: 13 }

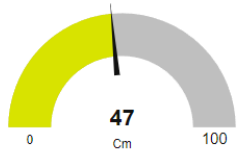
11/12/2022, 11:19:57 AM node: msg.payload
iot-2type/BIN4Id/BIN4DlevelIoTSensorfmt/json :
msg.payload : number
38
```

## NODE – RED UI

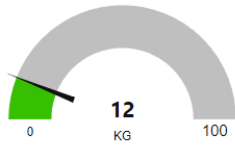
≡ control

control

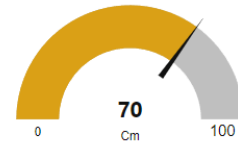
Distance 1



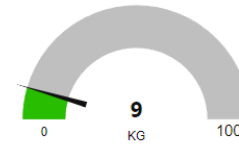
LOAD CELL 1



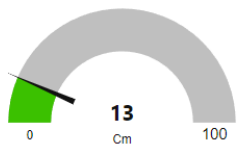
Distance 2



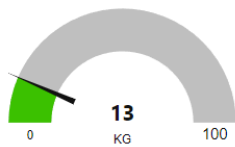
LOAD CELL 2



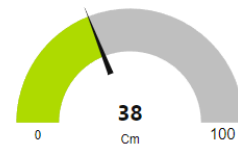
Distance 3



LOAD CELL 3



Distance 4



LOAD CELL 4

