

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 device. The flow includes nodes for inject, debug, complete, catch, status, link in, link call, link out, and comment. The function nodes are labeled Distance 1, Distance 2, Distance 3, Distance 4, LOAD cell 1, LOAD cell 2, LOAD cell 3, and LOAD cell 4. The network nodes include mqtt in, mqtt out, http in, http response, http request, and websocket in.

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
ex: 2type:BIN4id:BIN4DevId:IoTSensor/mj/son:
msg.payload : undefined
undefined
11/12/2022, 11:19:36 AM node: msg.payload
ex: 2type:BIN4id:BIN4DevId:IoTSensor/mj/son:
msg.payload : Object
{ dist: 48, load: 7 }
11/12/2022, 11:19:37 AM node: msg.payload
ex: 2type:BIN4id:BIN4DevId:IoTSensor/mj/son:
msg.payload : number
48
11/12/2022, 11:19:44 AM node: msg.payload
ex: 2type:BIN4id:BIN4DevId:IoTSensor/mj/son:
msg.payload : string[36]
>alert :No need to collect right now
11/12/2022, 11:19:45 AM node: msg.payload
ex: 2type:BIN4id:BIN4DevId:IoTSensor/mj/son:
msg.payload : undefined
undefined
11/12/2022, 11:19:46 AM node: msg.payload
ex: 2type:BIN4id:BIN4DevId:IoTSensor/mj/son:
msg.payload : Object
{ dist: 18, load: 9 }
11/12/2022, 11:19:47 AM node: msg.payload
ex: 2type:BIN4id:BIN4DevId:IoTSensor/mj/son:
msg.payload : number
18
11/12/2022, 11:19:54 AM node: msg.payload
ex: 2type:BIN4id:BIN4DevId:IoTSensor/mj/son:
msg.payload : string[36]
>alert :No need to collect right now
11/12/2022, 11:19:55 AM node: msg.payload
ex: 2type:BIN4id:BIN4DevId:IoTSensor/mj/son:
msg.payload : undefined
undefined
11/12/2022, 11:19:56 AM node: msg.payload
ex: 2type:BIN4id:BIN4DevId:IoTSensor/mj/son:
msg.payload : Object
{ dist: 38, load: 13 }
11/12/2022, 11:19:57 AM node: msg.payload
ex: 2type:BIN4id:BIN4DevId:IoTSensor/mj/son:
msg.payload : number
38
```

NODE – RED UI

≡ control

control

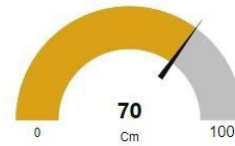
Distance 1



LOAD CELL 1



Distance 2



LOAD CELL 2



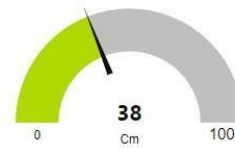
Distance 3



LOAD CELL 3



Distance 4



LOAD CELL 4



