

CREATE AN HTTP REQUESTS TO COMMUNICATE WITH MOBILE APP

Node-RED interface showing a flow for data collection and debugging.

Flow 1:

- Input:** IBM IoT (connected) node.
- Processing:** Four function nodes (f) labeled *turbidity*, *temperature*, *alert*, and *pH*.
- Output:** Four corresponding visualization nodes (turbidity, temperature, pH) and a *debug 1* node.
- External Interaction:** A sequence of nodes: *[get] /sensor* → *get response* → *http*.

Debug Console:

```
msg.payload : number
4

11/19/2022, 10:37:08 PM node: debug 1
iot-2/type/abcd/12/evt/water monitoring/fmt/json :
msg.payload : undefined
undefined

11/19/2022, 10:37:09 PM node: debug 1
iot-2/type/abcd/12/evt/water monitoring/fmt/json :
msg.payload : Object
{ pH: 13, turbid: 399, temp: 18 }

11/19/2022, 10:37:09 PM node: debug 1
iot-2/type/abcd/12/evt/water monitoring/fmt/json :
msg.payload : number
399

11/19/2022, 10:37:09 PM node: debug 1
iot-2/type/abcd/12/evt/water monitoring/fmt/json :
msg.payload : number
18

11/19/2022, 10:37:09 PM node: debug 1
iot-2/type/abcd/12/evt/water monitoring/fmt/json :
msg.payload : number
13

11/19/2022, 10:37:09 PM node: debug 1
iot-2/type/abcd/12/evt/water monitoring/fmt/json :
msg.payload : undefined
undefined
```

Node-RED interface showing the configuration of the *get response* function node.

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Edit function node: *get response*

Properties:

- Name:** get response
- Setup:** On Start, On Message, On Stop

Code:

```
1 msg.payload = {"temp":global.get('t'), "ph":global.get('ph'), "turbid":
2 return msg;
```

Dashboard:

- Layout:** Site, Theme
- NodeMCU:** Button, Analytics