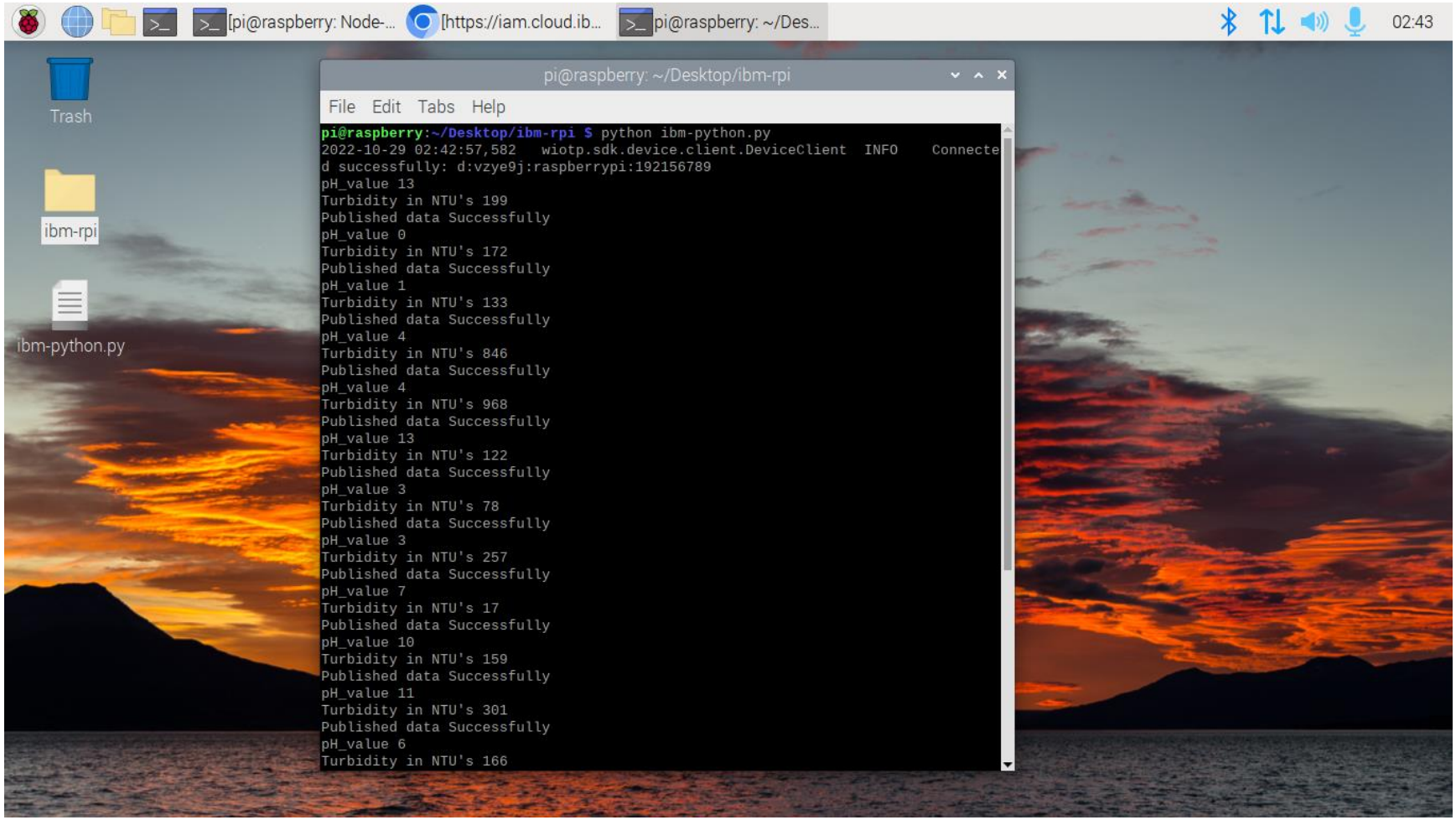
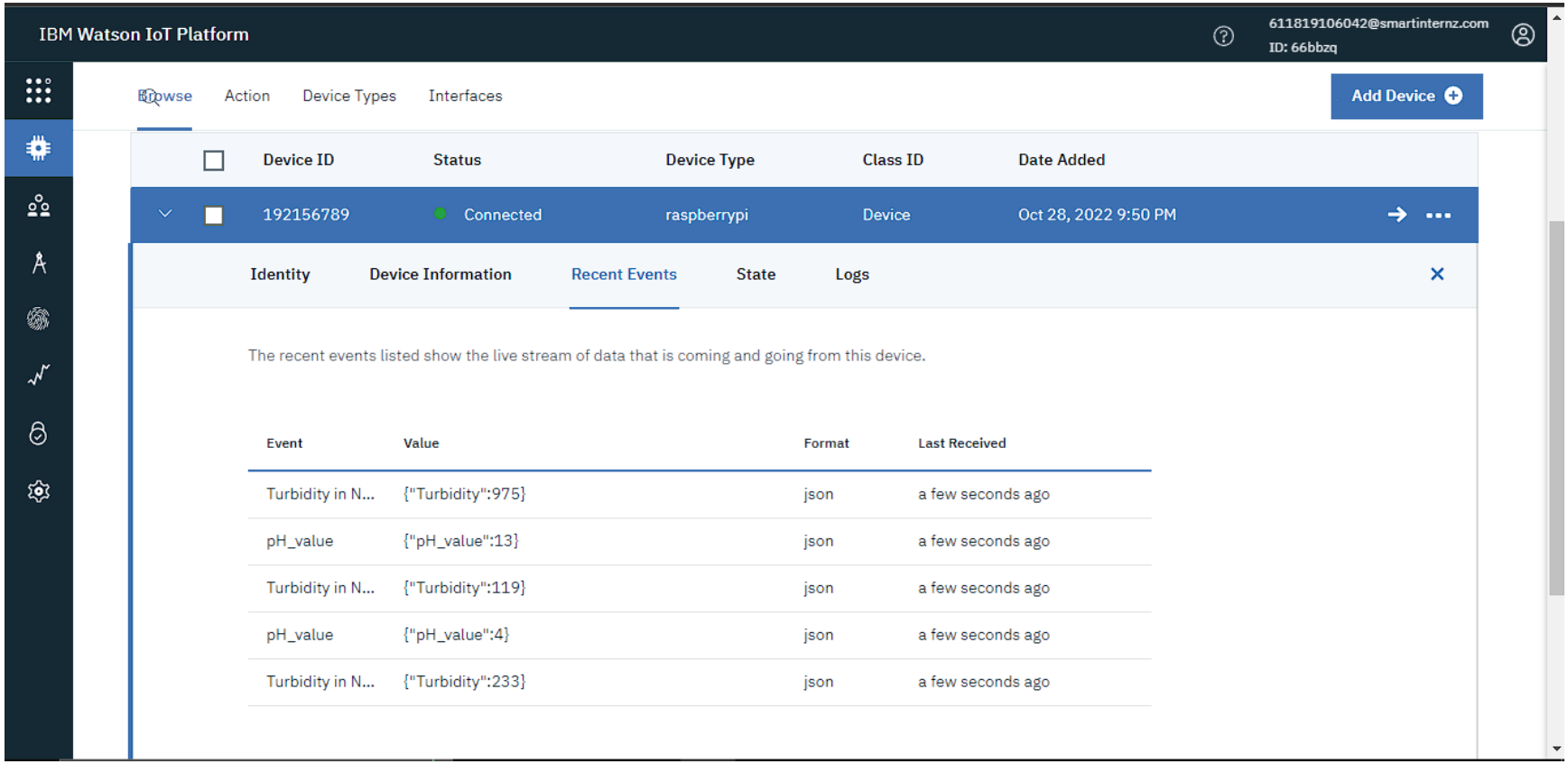
Develop A Web Application Using Node-Red Services

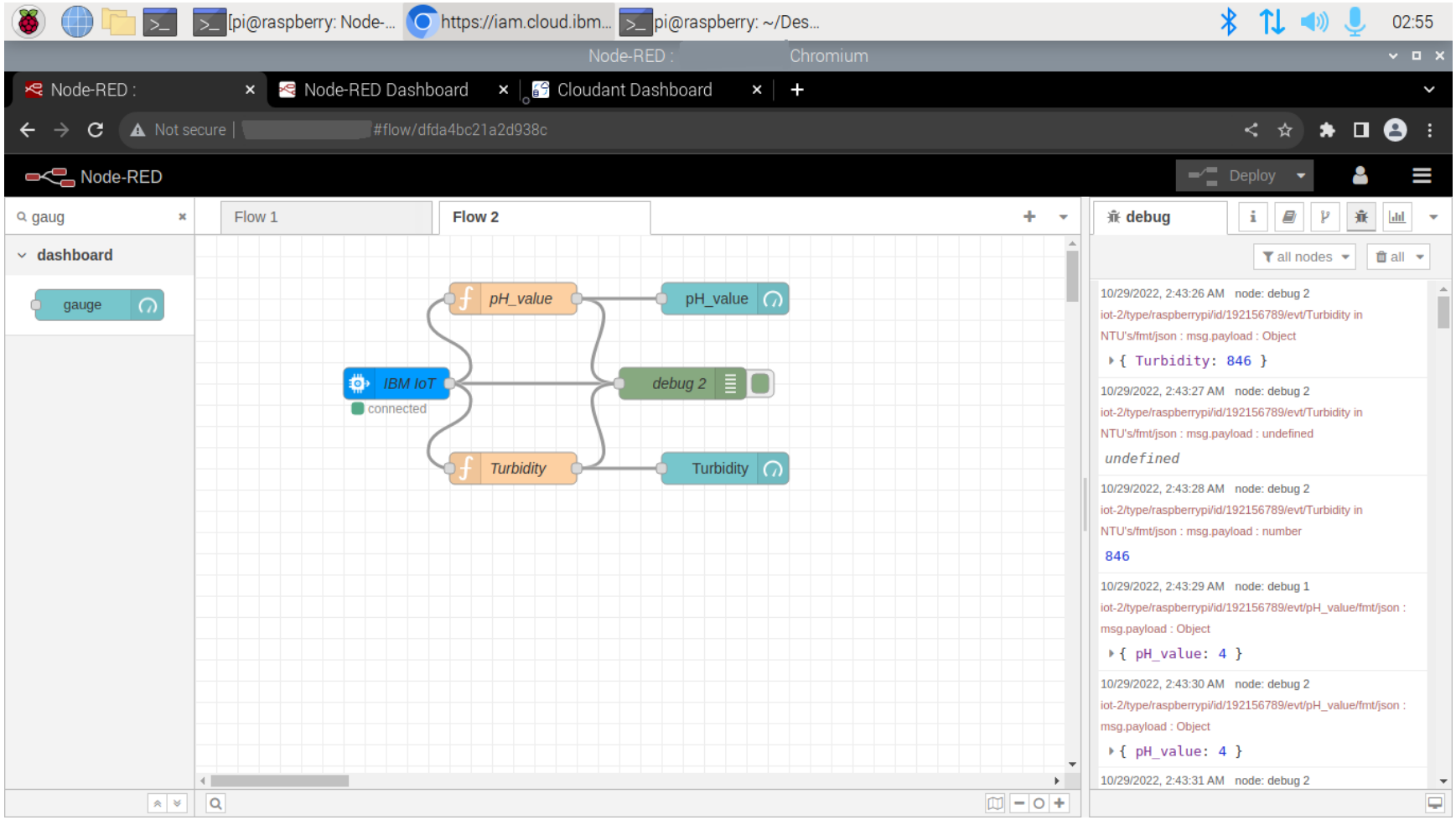
Use Dashboard Nodes For Creating UI(Web App

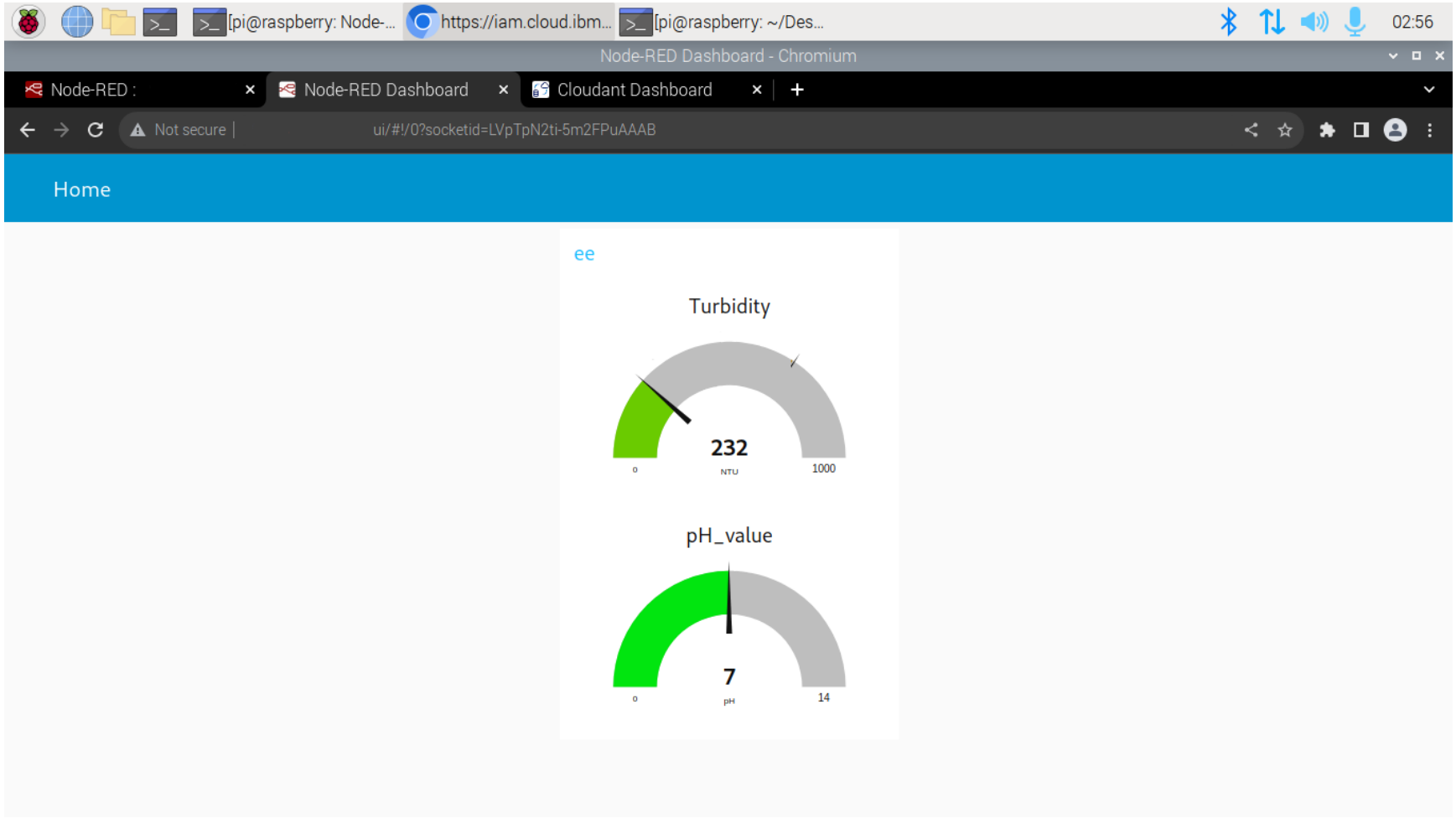
DATE	**15 Nov. 22**
TEAM ID	**PNT2022TMID40953**
PROJECT NAME	**REAL TIME RIVER WATER QUALITY MONITORING AND CONTROL SYSTEM**
MAXIMM MARK	**4 MARKS**
DATE	**15 Nov. 22**


[pi@raspberry: Node-...
[https://iam.cloud.ib...
pi@raspberry: ~/Des...
02:43
Trash
ibm-rpi
ibm-python.py
pi@raspberry: ~/Desktop/ibm-rpi
File Edit Tabs Help
pi@raspberry:~/Desktop/ibm-rpi $ python ibm-python.py
2022-10-29 02:42:57,582 wiotp.sdk.device.client.DeviceClient INFO Connected successfully: d:vzye9j:raspberrypi:192156789
pH_value 13
Turbidity in NTU's 199
Published data Successfully
pH_value 0
Turbidity in NTU's 172
Published data Successfully
pH_value 1
Turbidity in NTU's 133
Published data Successfully
pH_value 4
Turbidity in NTU's 846
Published data Successfully
pH_value 4
Turbidity in NTU's 968
Published data Successfully
pH_value 13
Turbidity in NTU's 122
Published data Successfully
pH_value 3
Turbidity in NTU's 78
Published data Successfully
pH_value 3
Turbidity in NTU's 257
Published data Successfully
pH_value 7
Turbidity in NTU's 17
Published data Successfully
pH_value 10
Turbidity in NTU's 159
Published data Successfully
pH_value 11
Turbidity in NTU's 301
Published data Successfully
pH_value 6
Turbidity in NTU's 166


IBM Watson IoT Platform
611819106042@smartinternz.com
ID: 66bbzq
Browse
Action
Device Types
Interfaces
Add Device
Device ID
Status
Device Type
Class ID
Date Added
192156789
Connected
raspberrypi
Device
Oct 28, 2022 9:50 PM
Identity
Device Information
Recent Events
State
Logs
The recent events listed show the live stream of data that is coming and going from this device.
Event
Value
Format
Last Received
Turbidity in N...
{"Turbidity":975}
json
a few seconds ago
pH_value
{"pH_value":13}
json
a few seconds ago
Turbidity in N...
{"Turbidity":119}
json
a few seconds ago
pH_value
{"pH_value":4}
json
a few seconds ago
Turbidity in N...
{"Turbidity":233}
json
a few seconds ago

IBM Watson IoT Platform
611819106042@smartinternz.com
ID: 66bbzq
USAGE OVERVIEW-1
Add New Card
Settings
9/1
9/7
9/13
9/19
9/25
10/1
10/7
10/13
10/19
10/25
Turbidity chart
1000
800
600
400
200
0
22:04
22:06
5 minutes
now
Turbidity
pH_value chart
15
10
5
0
22:04
22:06
5 minutes
now
pH_value


[pi@raspberry: Node-...
https://iam.cloud.ibm...
pi@raspberry: ~/Des...
02:55
Node-RED : Chromium
Node-RED :
Node-RED Dashboard
Cloudant Dashboard
Not secure
#flow/dfda4bc21a2d938c
Node-RED
Deploy
gaug
dashboard
gauge
Flow 1
Flow 2
pH_value
pH_value
IBM IoT
connected
debug 2
Turbidity
Turbidity
debug
all nodes
all
10/29/2022, 2:43:26 AM node: debug 2
iot-2/type/raspberrypi/id/192156789/evt/Turbidity in
NTU's/fmt/json : msg.payload : Object
{ Turbidity: 846 }
10/29/2022, 2:43:27 AM node: debug 2
iot-2/type/raspberrypi/id/192156789/evt/Turbidity in
NTU's/fmt/json : msg.payload : undefined
undefined
10/29/2022, 2:43:28 AM node: debug 2
iot-2/type/raspberrypi/id/192156789/evt/Turbidity in
NTU's/fmt/json : msg.payload : number
846
10/29/2022, 2:43:29 AM node: debug 1
iot-2/type/raspberrypi/id/192156789/evt/pH_value/fmt/json :
msg.payload : Object
{ pH_value: 4 }
10/29/2022, 2:43:30 AM node: debug 2
iot-2/type/raspberrypi/id/192156789/evt/pH_value/fmt/json :
msg.payload : Object
{ pH_value: 4 }
10/29/2022, 2:43:31 AM node: debug 2


[pi@raspberry: Node-...
https://iam.cloud.ibm...
[pi@raspberry: ~/Des...
02:56
Node-RED Dashboard - Chromium
Node-RED :
Node-RED Dashboard
Cloudant Dashboard
Not secure
ui/#!/0?socketid=LVpTpN2ti-5m2FPuAAAB
Home
ee
Turbidity
232
0
NTU
1000
pH_value
7
0
pH
14