Module App
Back end

Module Twin

Tags — Read, write change notifications

Properties

Read, receive change notifications — **Desired** — Read, write change notifications

Read, write — **Reported** — Read change notifications

Module Identity Twin
NodeREDonIoTEdge

💾 Save

ℹ The module twin for 'NodeREDonIoTEdge' is shown below. You can add tags and desired properties to your module t

```
58              "timeStamp": {
59                  "$lastUpdated": "2023-06-17T22:05:51.7757525Z"
60              }
61          },
62          "$version": 2586,
63          "ambient": {
64              "humidity": 25,
65              "temperature": 20.712653538650063
66          },
67          "detect": 1,
68          "humidity": 25,
69          "light": 9,
70          "machine": {
71              "pressure": 10.039168173527258,
72              "temperature": 100.34380952318372
73          },
74          "moduleStatus": "[object Object]",
75          "room": 0,
76          "temperature": 20.88388654448998,
77          "timeCreated": "2023-06-21T17:02:45.4046092Z",
78          "timeStamp": "2023-06-17T22:05:50.1307755Z"
79      }
80  },
81  "status": "enabled",
82  "statusUpdateTime": "0001-01-01T00:00:00.0000000Z",
83  "lastActivityTime": "2023-06-21T16:56:34.1436957Z",
84  "connectionState": "Connected",
85  "cloudToDeviceMessageCount": 0,
86  "authenticationType": "sas"
87 }
```

```
     1 reference
18   public class Machine
19   {
         0 references
20       public double? temperature {get; set;}
         0 references
21       public double? pressure {get; set;}
22   }
     1 reference
23   public class Ambient
24   {
```

问题 4 输出 调试控制台 终端 JUPYTER 串行监视器 AZURE

```
   "light": 9,
   "detect": 1,
   "room": 0,
   "ledStatus": true,
   "temperature": 21.499626802731516,
   "humidity": 25
}
[IoTHubMonitor] [6:34:50 PM] Message received from [Pi/EdgeContorlModule]:
{
   "timeCreated": "2023-06-21T16:34:46.3542405Z",
   "pic_diff": 47.109272,
   "light": 10,
   "detect": 1,
   "room": 1,
   "ledStatus": false,
   "temperature": 21.499626802731516,
   "humidity": 25
}
[IoTHubMonitor] [6:34:52 PM] Message received from [Pi/EdgeContorlModule]:
{
   "timeCreated": "2023-06-21T16:34:51.3747963Z",
   "pic_diff": 35.499813,
   "light": 10,
   "detect": 1,
   "room": 0,
   "ledStatus": false,
   "temperature": 21.44856636095934,
   "humidity": 25
}
```
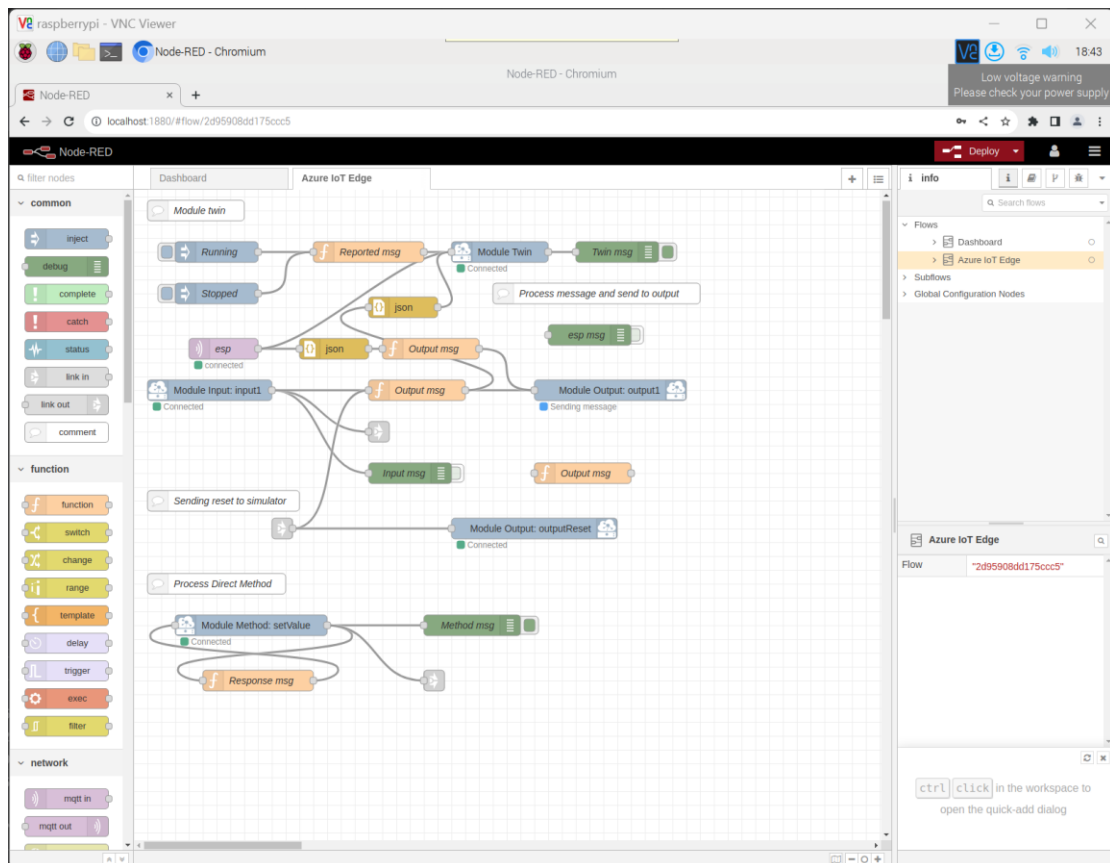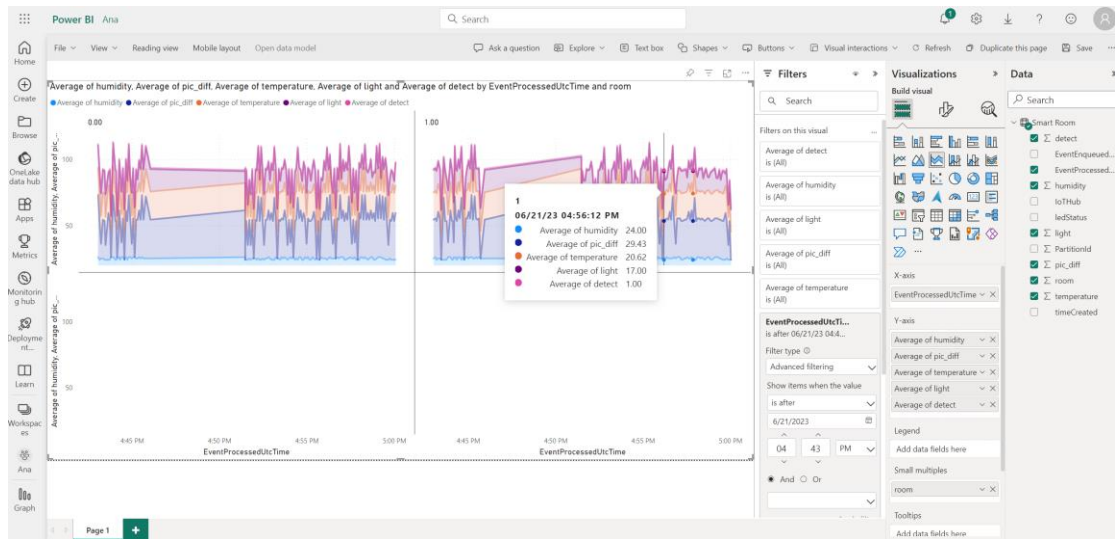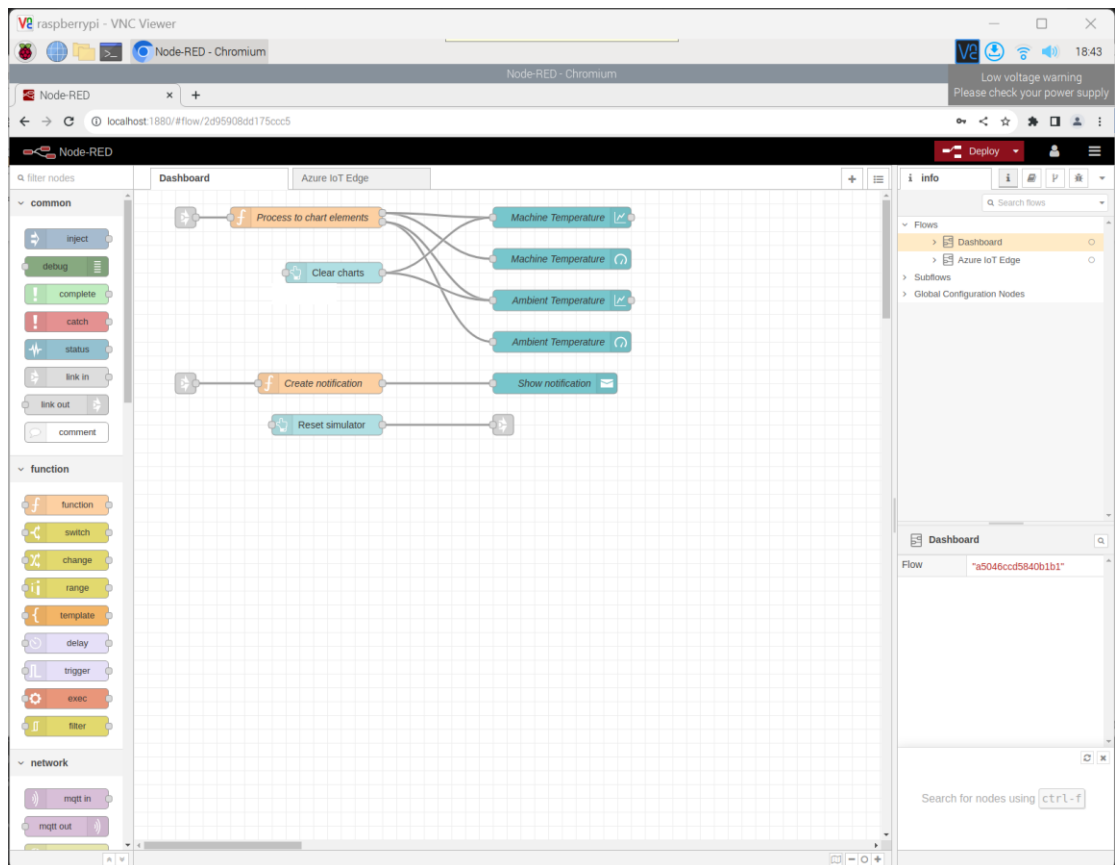
Node-RED - Chromium

Low voltage warning
Please check your power supply

18:43

Node-RED

localhost:1880/#flow/2d95908dd175ccc5

Deploy

filter nodes

Dashboard | Azure IoT Edge

common
- inject
- debug
- complete
- catch
- status
- link in
- link out
- comment

function
- function
- switch
- change
- range
- template
- delay
- trigger
- exec
- filter

network
- mqtt in
- mqtt out

Process to chart elements

Clear charts

Create notification

Reset simulator

Machine Temperature
Machine Temperature
Ambient Temperature
Ambient Temperature
Show notification

info

Search flows

Flows
- Dashboard
- Azure IoT Edge

Subflows
Global Configuration Nodes

Dashboard

Flow "a5046ccd5840b1b1"

Search for nodes using ctrl-f

Power BI Ana

Search

Home | Create | Browse | OneLake data hub | Apps | Metrics | Monitoring hub | Deployment... | Learn | Workspaces | Ana | Graph

File | View | Reading view | Mobile layout | Open data model | Ask a question | Explore | Text box | Shapes | Buttons | Visual interactions | Refresh | Duplicate this page | Save

Average of humidity, Average of pic_diff, Average of temperature, Average of light and Average of detect by EventProcessedUtcTime and room

● Average of humidity ● Average of pic_diff ● Average of temperature ● Average of light ● Average of detect

0.00   1.00

1
06/21/23 04:56:12 PM
Average of humidity   24.00
Average of pic_diff   29.43
Average of temperature 20.62
Average of light   17.00
Average of detect   1.00

4:45 PM   4:50 PM   4:55 PM   5:00 PM
EventProcessedUtcTime

4:45 PM   4:50 PM   4:55 PM   5:00 PM
EventProcessedUtcTime

Filters

Search

Filters on this visual

Average of detect
is (All)

Average of humidity
is (All)

Average of light
is (All)

Average of pic_diff
is (All)

Average of temperature
is (All)

EventProcessedUtcTi...
is after 06/21/23 04:4...

Filter type
Advanced filtering

Show items when the value
is after
6/21/2023
04 43 PM

● And ○ Or

Visualizations

Build visual

X-axis
EventProcessedUtcTime

Y-axis
Average of humidity
Average of pic_diff
Average of temperature
Average of light
Average of detect

Legend
Add data fields here

Small multiples
room

Tooltips
Add data fields here

Data

Search

Smart Room
- detect
- EventEnqueued...
- EventProcessed...
- humidity
- IoTHub
- ledStatus
- light
- PartitionId
- pic_diff
- room
- temperature
- timeCreated

Page 1

edgecontorlmodule ...
Repository

⟳ Refresh   🖉 Manage deleted artifacts   🗑 Delete repository

⌄ **Essentials**

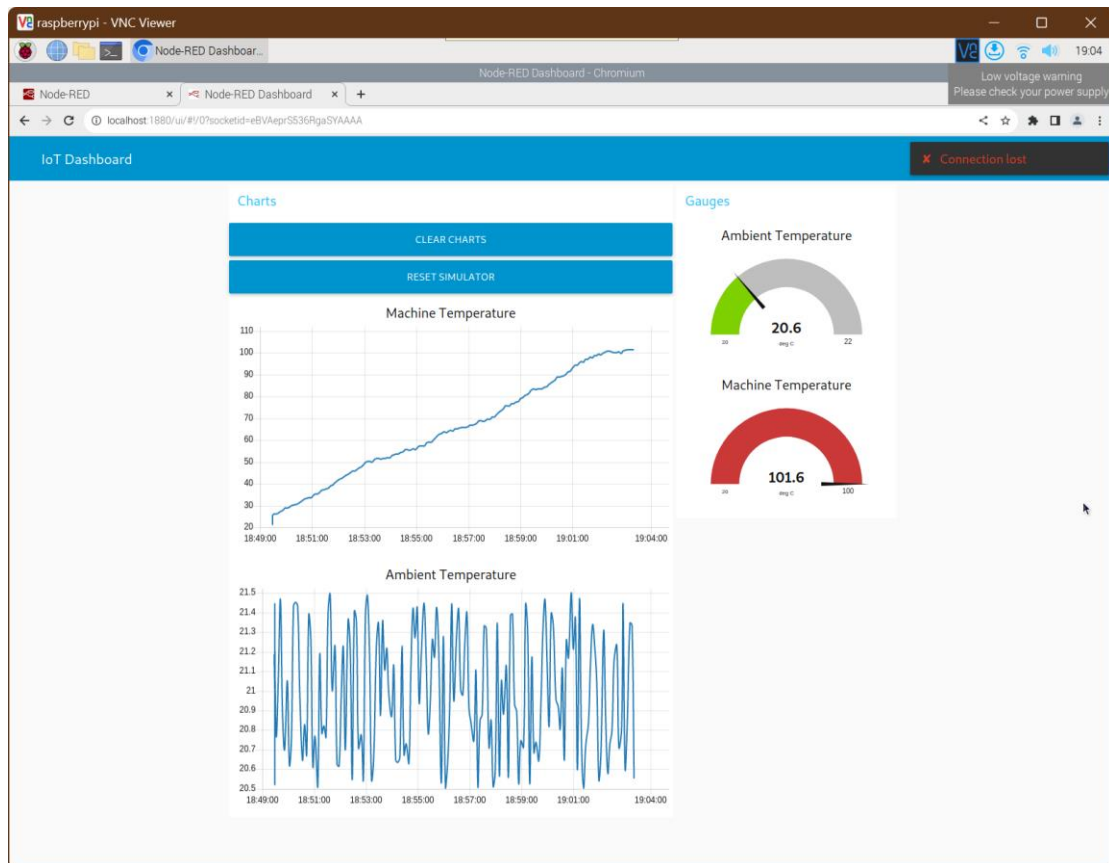|			
Repository	: edgecontorlmodule	Tag count	: 10
Last updated date	: 6/19/2023, 12:34 AM GMT+2	Manifest count	: 12

🔎 Search to filter tags ...

Tags ↑↓	Digest ↑↓	Last modified
0.1.3-arm32v7	sha256:6b2cf4d43225186f494e7131461438d8086a1eabfcc...	6/19/2023, 12:34 AM GMT+2
0.1.1-arm32v7	sha256:0b060551c98c5cab8b43776401e4080f3ab27d568a...	6/19/2023, 12:24 AM GMT+2
0.1.0-arm32v7	sha256:b923977e4c5655dabcfa28788aa6404f912f73f8b1c...	6/19/2023, 12:23 AM GMT+2
0.0.9-arm32v7	sha256:5e3e77c114114a74ca2a951dc51cf3af3fc0c477a252...	6/19/2023, 12:10 AM GMT+2
0.0.8-arm32v7	sha256:d6e57d501c01d19bd98f4cc8edf09794c46ba9e824...	6/18/2023, 11:58 PM GMT+2
0.0.6-arm32v7	sha256:2c98b7c151cc36940c18ba5a037f9ab75281df7fc70...	6/18/2023, 10:23 PM GMT+2
0.0.5-arm32v7	sha256:5cbd1e10ccc65e881552694c600fec2fe1aac25ad8b...	6/18/2023, 10:04 PM GMT+2
0.0.3-arm32v7	sha256:66689456ede3bb043bd0804055cbb33e3323e2fc9e...	6/18/2023, 9:47 PM GMT+2
0.0.2-arm32v7	sha256:ee582f76af83cf721e920935939c9dd5e2b88e7c150...	6/18/2023, 8:19 PM GMT+2
0.0.1-arm32v7	sha256:9f91be7795de9b24e5adbe179097048211379283fa...	6/18/2023, 7:53 PM GMT+2

boboedge | Repositories ☆ ⋯
Container registry