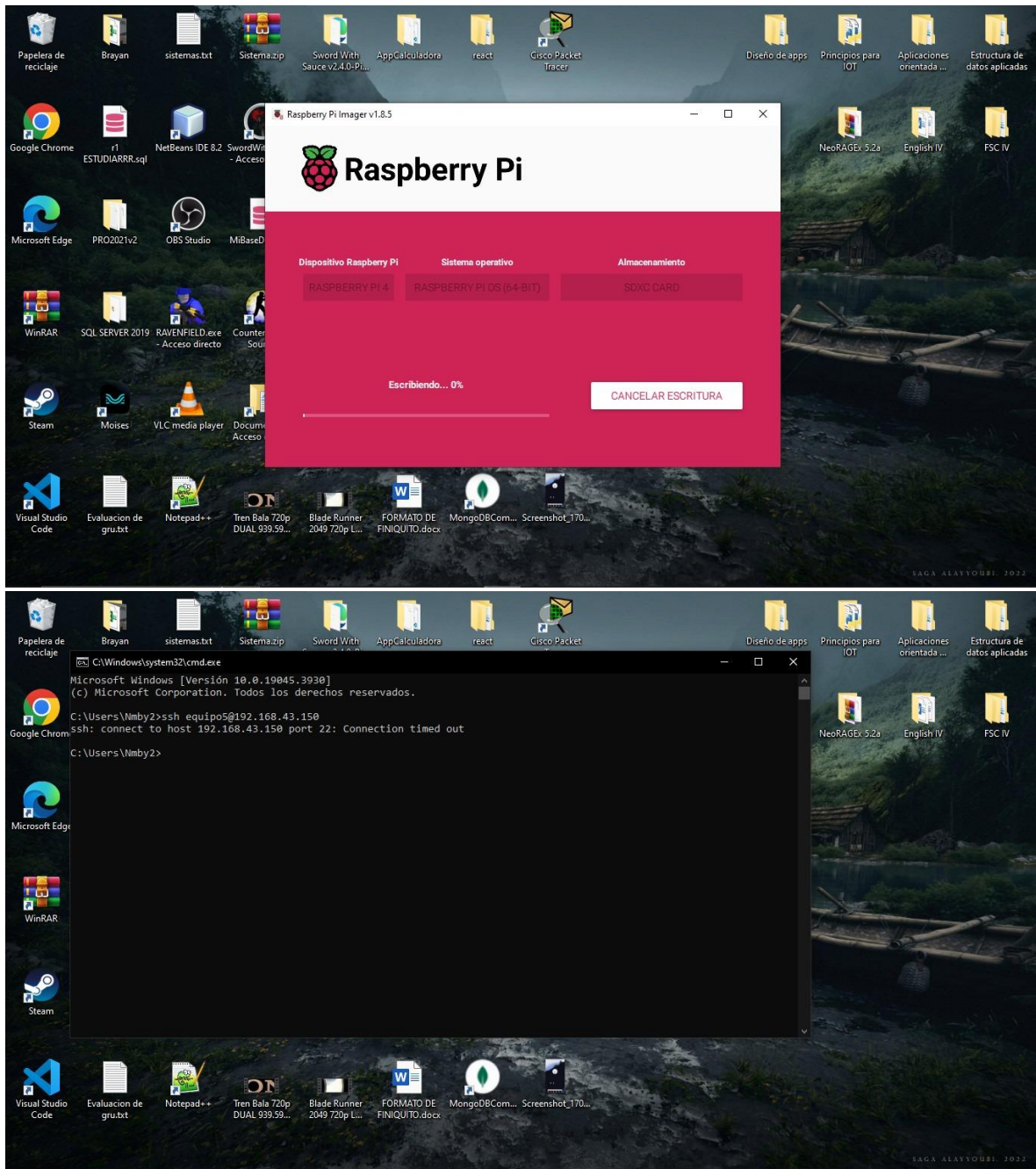
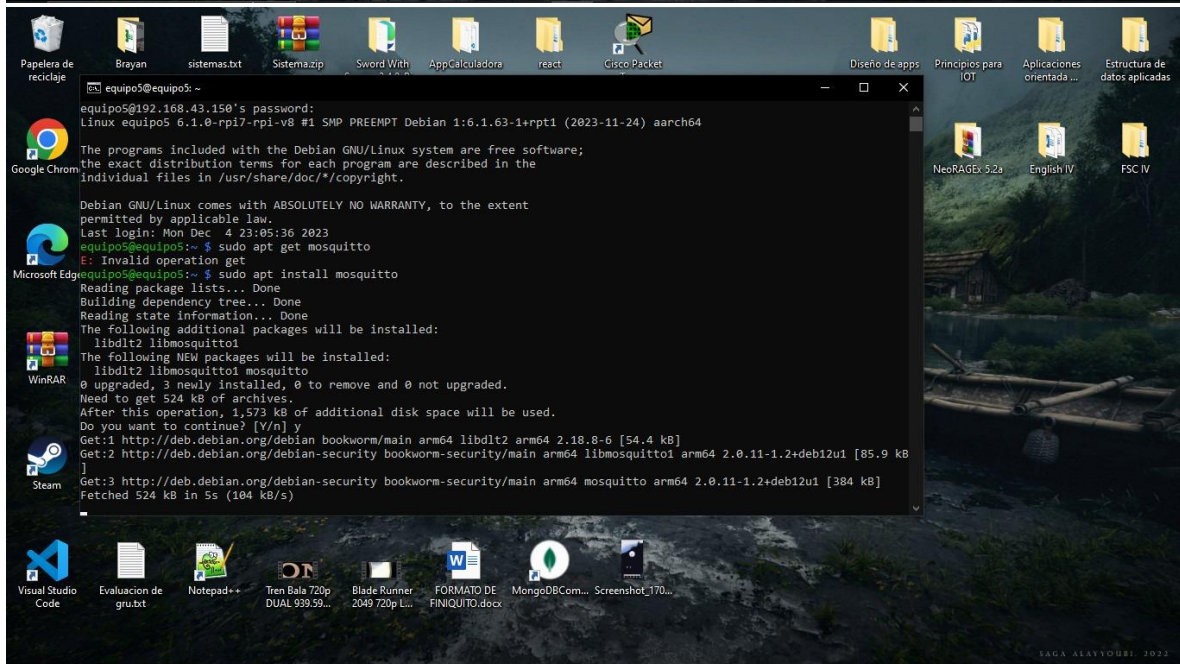
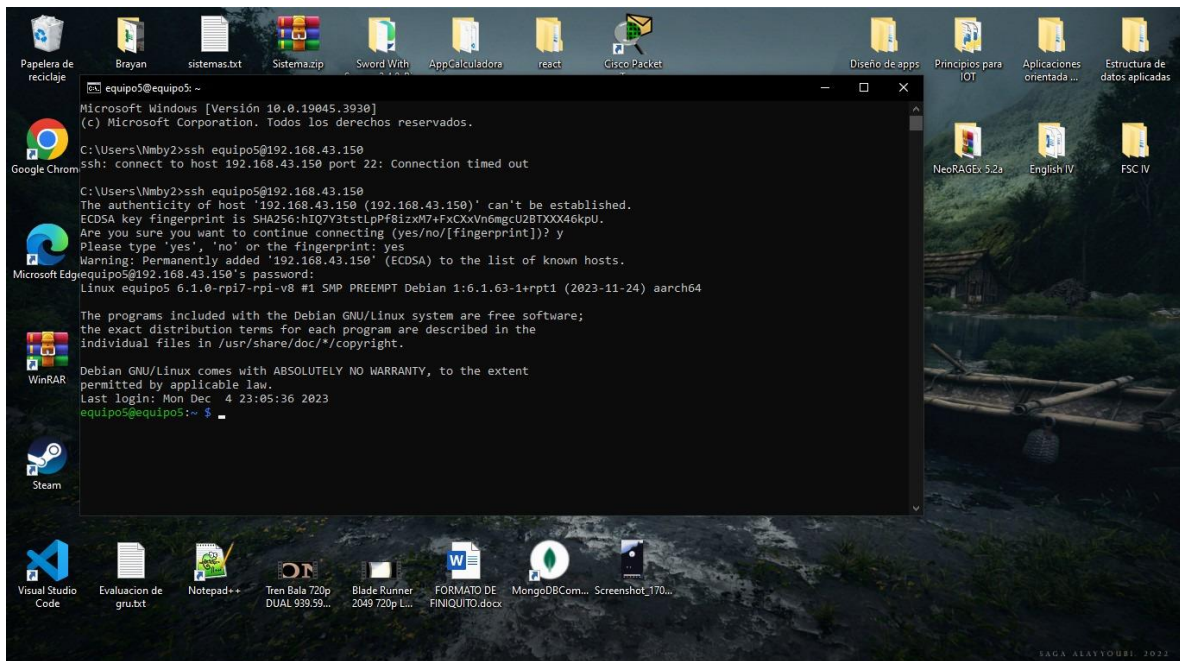
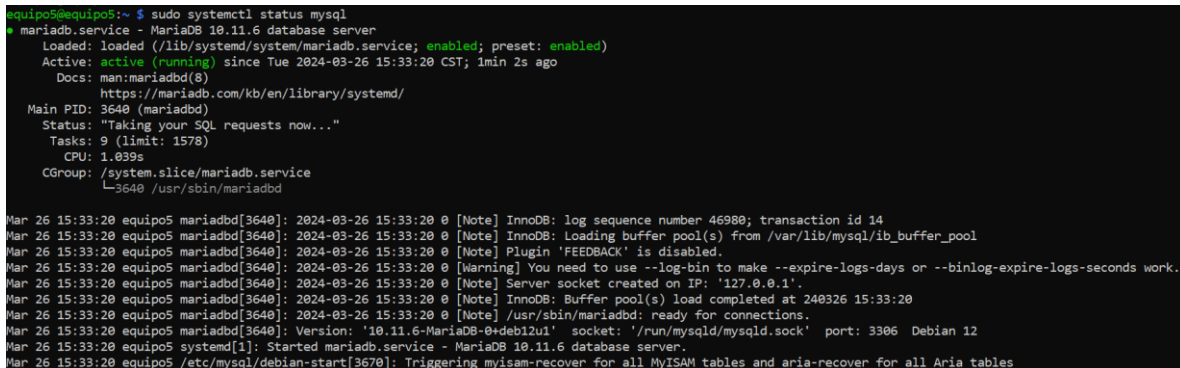
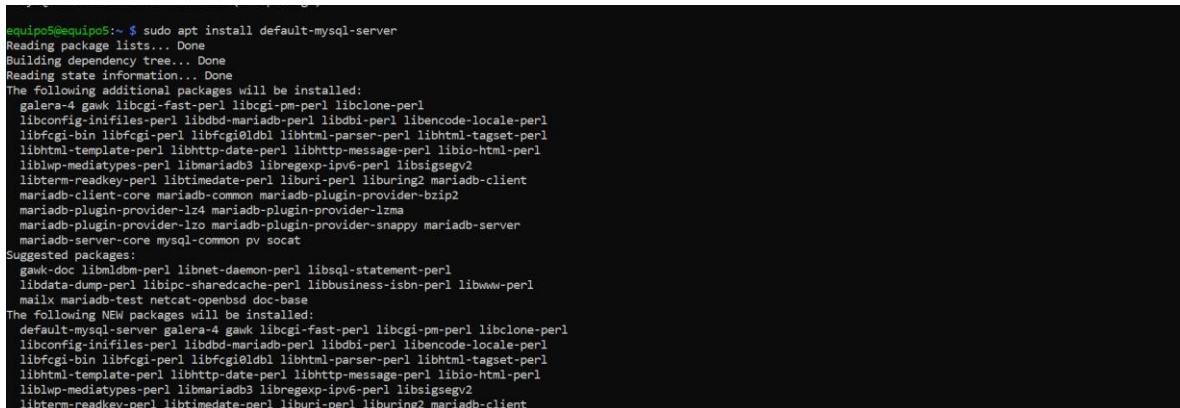
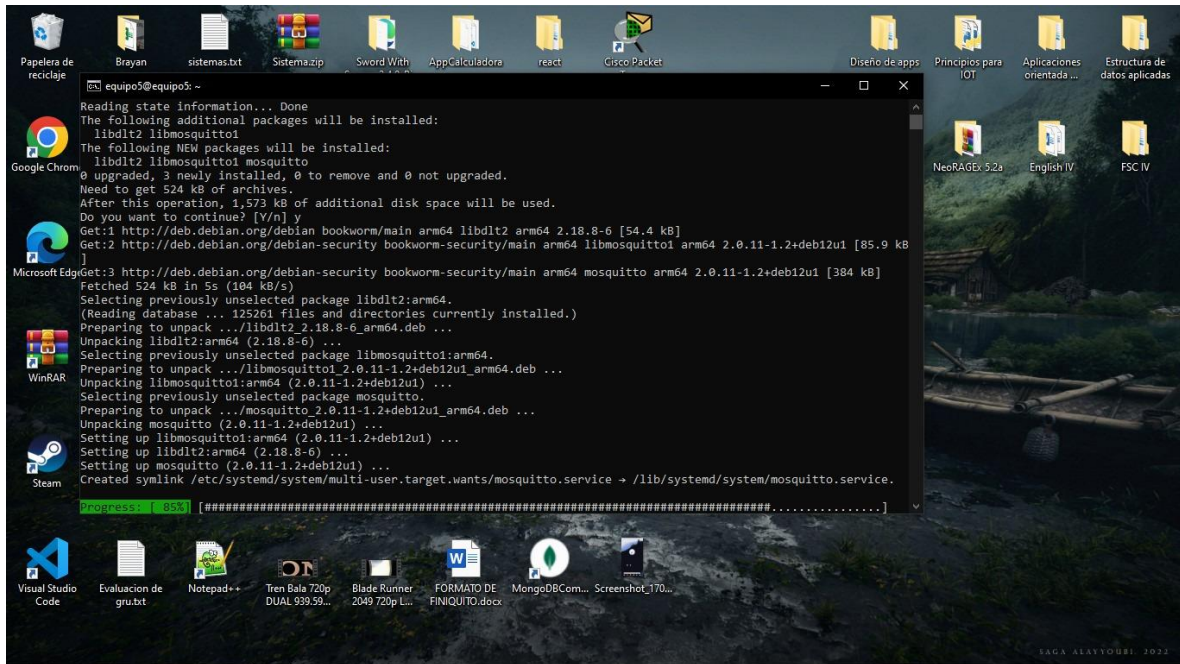


## Clase 11







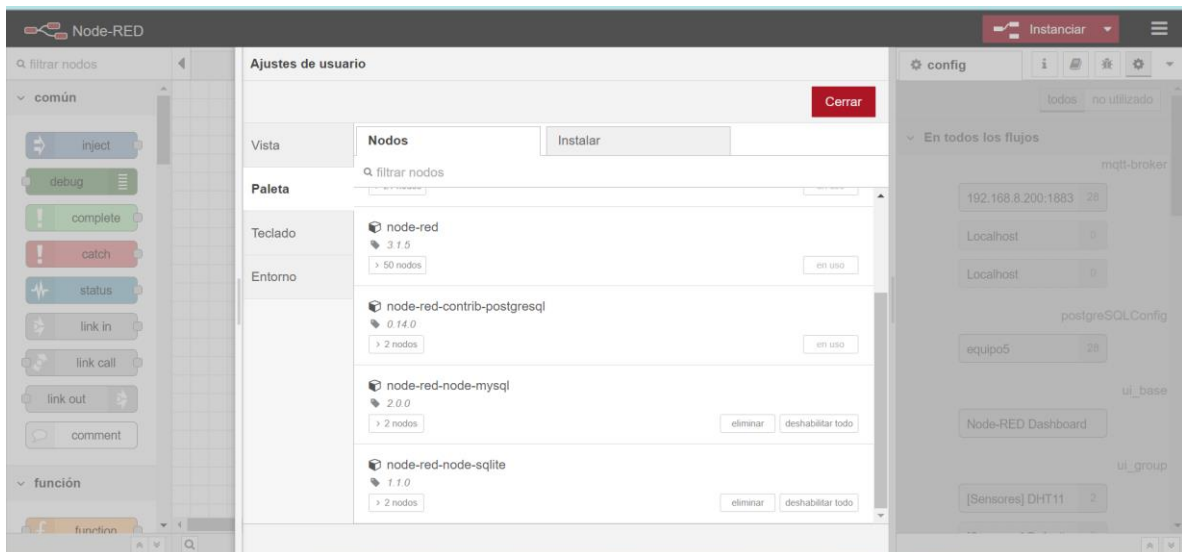
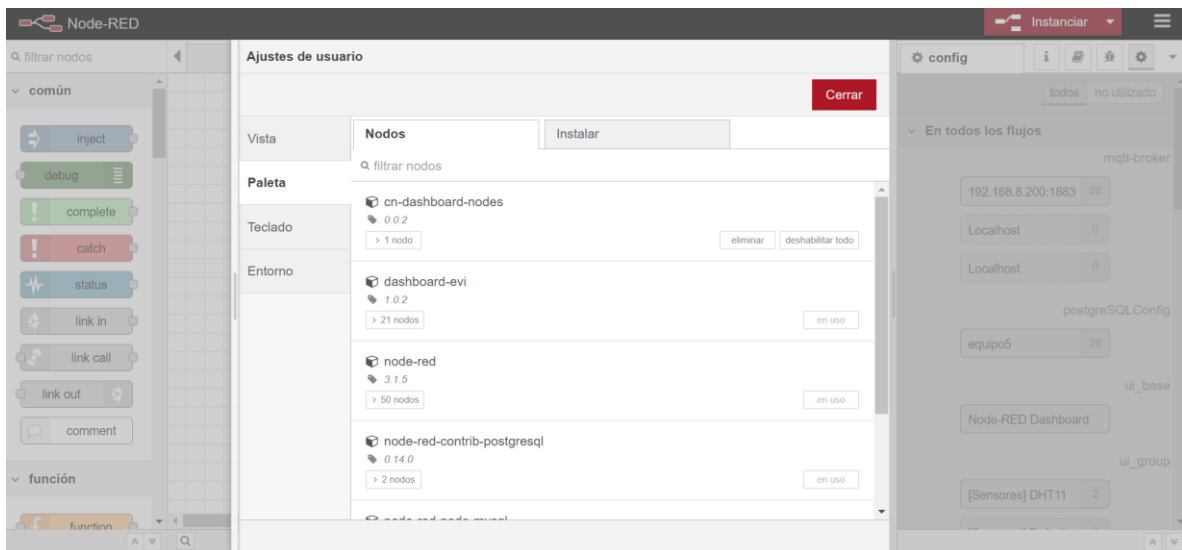


```
equipo5@equipo5:~$ sudo mysql -u root -p -h localhost
Enter password:
Welcome to the MariaDB monitor.  Commands end with ; or \g.
Your MariaDB connection id is 35
Server version: 10.11.6-MariaDB-0+deb12u1 Debian 12

Copyright (c) 2000, 2018, Oracle, MariaDB Corporation Ab and others.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

MariaDB [(none)]> _
```



## CREAR BASE DE DATO Y TABLA

```
equipo5@equipo5:~$ sudo mysql -u u_equipo5 -p
Enter password:
Welcome to the MariaDB monitor.  Commands end with ; or \g.
Your MariaDB connection id is 107
Server version: 10.11.6-MariaDB-0+deb12u1 Debian 12

Copyright (c) 2000, 2018, Oracle, MariaDB Corporation Ab and others.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

MariaDB [(none)]> CREATE DATABASE IF NOT EXISTS equipo5;
Query OK, 0 rows affected, 1 warning (0.001 sec)

MariaDB [(none)]> use equipo5;
Reading table information for completion of table and column names
You can turn off this feature to get a quicker startup with -A

Database changed
MariaDB [equipo5]> CREATE TABLE IF NOT EXISTS sensor_states (
  -> CURRENT_TIMESTAMP -> id INT AUTO_INCREMENT PRIMARY KEY,
  -> sensor_name VARCHAR(255) NOT NULL,
  -> state VARCHAR(255) NOT NULL,
  -> timestamp TIMESTAMP DEFAULT CURRENT_TIMESTAMP
  -> );
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MariaDB server version for the right syntax to use near '-> id INT A
UTO_INCREMENT PRIMARY KEY'
  -> sensor_name VARCHAR(255)...' at line 2
MariaDB [equipo5]> CREATE DATABASE IF NOT EXISTS nombre_basededatos;
E nonbQuery OK, 1 row affected (0.001 sec)

MariaDB [equipo5]> USE nombre_basededatos;
E IF NOT EXISTS sensor_states (
  id INT AUTO_INCREMENT PRIMARY KEY,
  sensor_name VARCHAR(255) NOT NULL,
  state VARCHAR(255) NOT NULL,
  timestamp TIMESTAMP DEFAULT CURRENT_TIMDatabase changed
MariaDB [nombre_basededatos]>
MariaDB [nombre_basededatos]> CREATE TABLE IF NOT EXISTS sensor_states (
  -> id INT AUTO_INCREMENT PRIMARY KEY,
  -> sensor_name VARCHAR(255) NOT NULL,
  -> state VARCHAR(255) NOT NULL,
```

```
MariaDB [equipo5]> USE nombre_basededatos;
E IF NOT EXISTS sensor_states (
  id INT AUTO_INCREMENT PRIMARY KEY,
  sensor_name VARCHAR(255) NOT NULL,
  state VARCHAR(255) NOT NULL,
  timestamp TIMESTAMP DEFAULT CURRENT_TIMDatabase changed
MariaDB [nombre_basededatos]>
MariaDB [nombre_basededatos]> CREATE TABLE IF NOT EXISTS sensor_states (
  -> id INT AUTO_INCREMENT PRIMARY KEY,
  -> sensor_name VARCHAR(255) NOT NULL,
  -> state VARCHAR(255) NOT NULL,
  -> timestamp TIMESTAMP DEFAULT CURRENT_TIMESTAMP
  -> );
Query OK, 0 rows affected (0.012 sec)

MariaDB [nombre_basededatos]> _
```

## Login

Dashboard

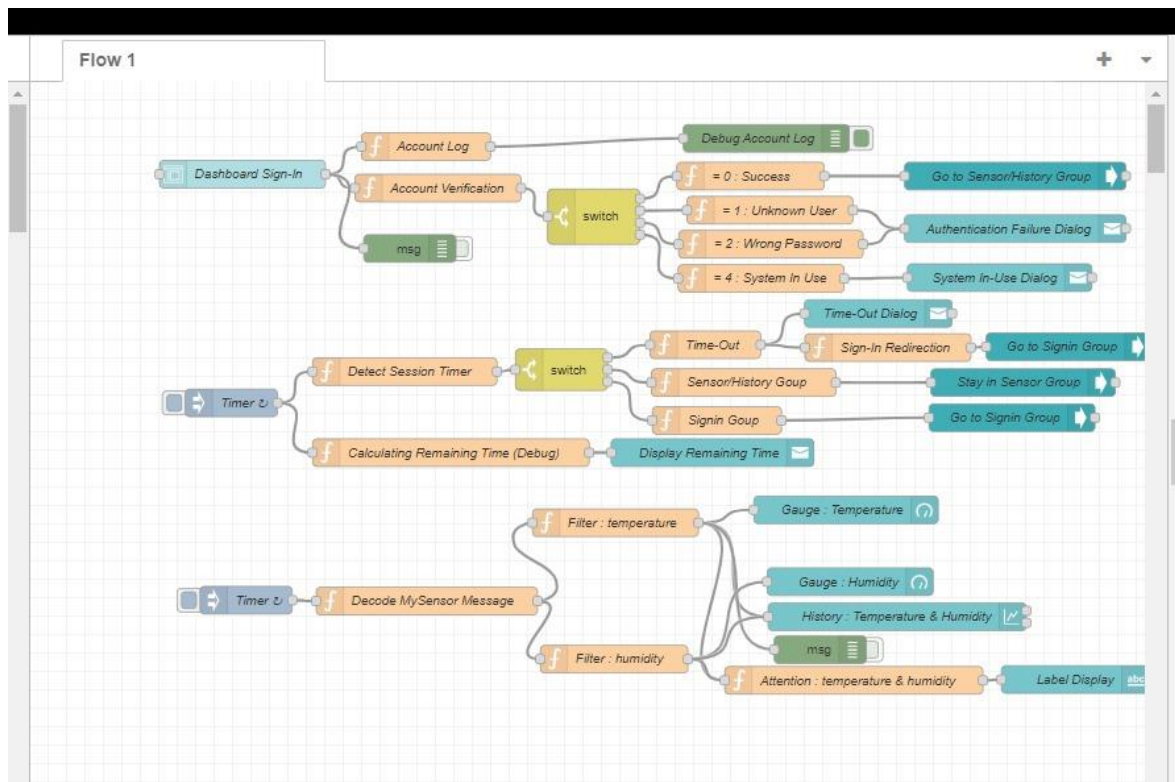
Signin

username \*

password \*

SUBMIT

CANCEL



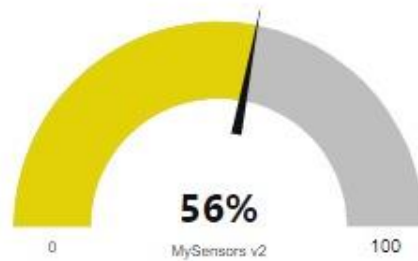
## SensorData

**Temperature : 33°C - Humidity : 51%**

Temperature DHT22



Humidity DHT22



```
[  
  {  
    "id": "88f0bba260c26401",  
    "type": "tab",  
    "label": "Flow 1",  
    "disabled": false,  
    "info": ""  
  },  
  {  
    "id": "bc7cbad6568ee864",  
    "type": "ui_form",
```

```
"z": "88f0bba260c26401",
"name": "Dashboard Sign-In",
"label": "",
"group": "b82da486.9fc8d8",
"order": 0,
"width": 0,
"height": 0,
"options": [
  {
    "label": "username",
    "value": "username",
    "type": "text",
    "required": true
  },
  {
    "label": "password",
    "value": "password",
    "type": "password",
    "required": true
  }
],
"formValue": {
  "username": "",
  "password": ""
},
"payload": "",
"submit": "submit",
"cancel": "cancel",
"topic": "",
```



```
"x": 230,
"y": 100,
"wires": [
  [
    "39051cc8e20f0a0e",
    "712ea51390dd0b42",
    "35fd025ad57eb273"
  ]
]
},
{
  "id": "e3fc7436b97f6716",
  "type": "debug",
  "z": "88f0bba260c26401",
  "name": "Debug Account Log ",
  "active": true,
  "tosidebar": true,
  "console": false,
  "tostatus": false,
  "complete": "true",
  "targetType": "full",
  "statusVal": "",
  "statusType": "auto",
  "x": 798.0000915527344,
  "y": 61.00000762939453,
  "wires": []
},
{
  "id": "39051cc8e20f0a0e",
```

```

    "type": "function",
    "z": "88f0bba260c26401",
    "name": "Account Log",
    "func": "var accountlog = flow.get(\"accountlog\") || []; \n\naccountlog.push({ accessAt :
new Date(), username : msg.payload.username})\n\nflow.set(\"accountlog\",
accountlog);\n\nmsg.payload = accountlog;\nreturn msg;",
    "outputs": 1,
    "timeout": "",
    "noerr": 0,
    "initialize": "",
    "finalize": "",
    "libs": [],
    "x": 429.00000762939453,
    "y": 69.99999618530273,
    "wires": [
        [
            "e3fc7436b97f6716"
        ]
    ]
},
{
    "id": "712ea51390dd0b42",
    "type": "function",
    "z": "88f0bba260c26401",
    "name": "Account Verification",
    "func": "var accounts = flow.get(\"accounts\") || [ { username : \"brayan\", password :
\"123\"},{ username : \"Kevin\", password : \"123\"}]; \n\nvar username = msg.payload.username
;\nvar password = msg.payload.password ; \n\nmsg.payload = 1;\n\naccounts.forEach(function (
account ){ \n    if ( account.username == username ) { \n        msg.payload = 2; \n        if (
account.password == password ) { \n            msg.payload = 0; \n        } \n    } \n}); \n\nif ( msg.payload
== 0 ) { \n    var currentsocketid = flow.get(\"clientid\") || undefined; \n    if ( currentsocketid !=="

```

```
undefined && currentsocketid !== msg.socketid ) msg.payload = 3;\n}\n// keep the original  
socketid from msg.socketid;\nreturn msg;
```

```
  "outputs": 1,  
  "timeout": "",  
  "noerr": 0,  
  "initialize": "",  
  "finalize": "",  
  "libs": [],  
  "x": 442.0000457763672,  
  "y": 115.0000057220459,  
  "wires": [  
    [  
      "7de9b46ccf9e7358"  
    ]  
  ]  
},  
{  
  "id": "7de9b46ccf9e7358",  
  "type": "switch",  
  "z": "88f0bba260c26401",  
  "name": "",  
  "property": "payload",  
  "propertyType": "msg",  
  "rules": [  
    {  
      "t": "eq",  
      "v": "0",  
      "vt": "str"  
    }  
  ],  
}
```

```
{
  "t": "eq",
  "v": "1",
  "vt": "str"
},
{
  "t": "eq",
  "v": "2",
  "vt": "str"
},
{
  "t": "eq",
  "v": "3",
  "vt": "str"
}
],
"checkall": "true",
"repair": false,
"outputs": 4,
"x": 611.0000419616699,
"y": 145.9999885559082,
"wires": [
  [
    "b604d2662bcdae65"
  ],
  [
    "5ca67ed069367d1c"
  ],
  [
```

```

        "39ea1cade7e49dcc"
    ],
    [
        "9d8b7b8f677e062f"
    ]
]
},
{
    "id": "b604d2662bcdae65",
    "type": "function",
    "z": "88f0bba260c26401",
    "name": "= 0 : Success",
    "func": "/* activate session timer /\nvar sessionTimer = flow.get(\"sessionTimer\") || 0; \nvar currTime = Date.now();\nflow.set(\"sessionTimer\", currTime);\nflow.set(\"clientid\", msg.socketid);\n/ ui-control payload */\nmsg.payload = { group: {\n  show : [\"Dashboard_SensorData\", \"Another_History\"],\n  hide : [\"Dashboard_Signin\"]\n}\n};\n\nreturn msg;",
    "outputs": 1,
    "noerr": 0,
    "x": 780.999885559082,
    "y": 101.99999809265137,
    "wires": [
        [
            "7b4fb650e23b4a2c"
        ]
    ]
},
{
    "id": "5ca67ed069367d1c",
    "type": "function",

```



```
"z": "88f0bba260c26401",
"name": "= 1 : Unknown User",
"func": "msg.payload = \"Username Doesn't exist!!!\"\\nreturn msg;",
"outputs": 1,
"noerr": 0,
"x": 801.9998931884766,
"y": 139,
"wires": [
  [
    "614fbb0fd2618c06"
  ]
]
},
{
  "id": "39ea1cade7e49dcc",
  "type": "function",
  "z": "88f0bba260c26401",
  "name": "= 2 : Wrong Password",
  "func": "msg.payload = \"Invalid Password\";\\nreturn msg;",
  "outputs": 1,
  "noerr": 0,
  "x": 802.9999618530273,
  "y": 176.0000123977661,
  "wires": [
    [
      "614fbb0fd2618c06"
    ]
  ]
},
```

```
{
  "id": "7b4fb650e23b4a2c",
  "type": "ui_ui_control",
  "z": "88f0bba260c26401",
  "name": "Go to Sensor/History Group",
  "x": 1068.0000686645508,
  "y": 101.9999942779541,
  "wires": [
    []
  ]
},
{
  "id": "614fbb0fd2618c06",
  "type": "ui_toast",
  "z": "88f0bba260c26401",
  "position": "dialog",
  "displayTime": "3",
  "highlight": "",
  "outputs": 1,
  "ok": "OK",
  "cancel": "",
  "topic": "Authentication Failed",
  "name": "Authentication Failure Dialog",
  "x": 1067.9999732971191,
  "y": 159,
  "wires": [
    []
  ]
},
```

```
{
  "id": "cfa578621cb3a16c",
  "type": "inject",
  "z": "88f0bba260c26401",
  "name": "Timer",
  "repeat": "2",
  "crontab": "",
  "once": false,
  "onceDelay": 0.1,
  "topic": "",
  "payload": "",
  "payloadType": "date",
  "x": 233.99996948242188,
  "y": 561.9999046325684,
  "wires": [
    [
      "b8f9f5668c9ec243"
    ]
  ]
},
{
  "id": "ec845bae0880886f",
  "type": "ui_text",
  "z": "88f0bba260c26401",
  "group": "c35e46a8.b04ce8",
  "order": 0,
  "width": 0,
  "height": 0,
  "name": "Label Display",
```

```

    "label": "",
    "format": "{{msg.payload}}",
    "layout": "row-spread",
    "x": 1132.9999618530273,
    "y": 648.0000228881836,
    "wires": []
  },
  {
    "id": "b8f9f5668c9ec243",
    "type": "function",
    "z": "88f0bba260c26401",
    "name": "Decode MySensor Message",
    "func": "\nvar mySensorsMessage = {}\nvar newPayload = {};\nvar timestamp = new\nDate();\n\nnewPayload.nodeId = 3;\nnewPayload.type = Math.floor( Math.random() *\nMath.floor(2)); // 0 or 1\nif ( newPayload.type === 0 /* temperature */ ) newPayload.value =\nMath.floor( Math.random() * Math.floor(30)) + 10; // 10 - 39\nelse newPayload.value =\nMath.floor( Math.random() * Math.floor(40)) + 40; // 40 - 79\n\nmsg.payload = newPayload;\n\nreturn msg;",
    "outputs": 1,
    "noerr": 0,
    "x": 429.9999771118164,
    "y": 562.9999122619629,
    "wires": [
      [
        "354c140276844c6f",
        "a233cde30a44bfab"
      ]
    ]
  },
  {
    "id": "354c140276844c6f",

```

```
"type": "function",
"z": "88f0bba260c26401",
"name": "Filter : temperature",
"func": "if (msg.payload.nodeId == 3 && msg.payload.type === 0) {\n  var msg;\n  msg.payload = msg.payload.value;\n  msg.topic = \"Temperature\"\n  return msg;\n} ",
"outputs": 1,
"noerr": 0,
"x": 634.5000534057617,
"y": 478.00002002716064,
"wires": [
  [
    "317aafd4ab7ded37",
    "6a5f48b78fef54a",
    "687a17efabf7fbe9",
    "e00ccc4466f779d9"
  ]
]
},
{
  "id": "317aafd4ab7ded37",
  "type": "ui_gauge",
  "z": "88f0bba260c26401",
  "name": "Gauge : Temperature",
  "group": "c35e46a8.b04ce8",
  "order": 0,
  "width": 0,
  "height": 0,
  "gtype": "gage",
  "title": "Temperature DHT22",
```



```
"label": "MySensors v2",
"format": "{{value}}°C",
"min": 0,
"max": "50",
"colors": [
    "#66ccff",
    "#ff8000",
    "#ca3838"
],
"seg1": "",
"seg2": "",
"x": 884.5000076293945,
"y": 463.9999828338623,
"wires": []
},
{
    "id": "a233cde30a44bfab",
    "type": "function",
    "z": "88f0bba260c26401",
    "name": "Filter : humidity",
    "func": "if (msg.payload.nodeId == 3 && msg.payload.type === 1) {\n  var msg;\n  msg.payload = msg.payload.value;\n  msg.topic = \"Humidity\"\n  return msg;\n} ",
    "outputs": 1,
    "noerr": 0,
    "x": 633.0000762939453,
    "y": 625.9999542236328,
    "wires": [
        [
            "755da6f1bc167cac",
```

```
        "6a5f48b78fed54a",
        "687a17efabf7fbe9"
    ]
]
},
{
    "id": "755da6f1bc167cac",
    "type": "ui_gauge",
    "z": "88f0bba260c26401",
    "name": "Gauge : Humidity",
    "group": "c35e46a8.b04ce8",
    "order": 0,
    "width": "0",
    "height": "0",
    "gtype": "gage",
    "title": "Humidity DHT22",
    "label": "MySensors v2",
    "format": "{{value}}%",
    "min": 0,
    "max": "100",
    "colors": [
        "#1a25ab",
        "#e6e600",
        "#ca3838"
    ],
    "seg1": "",
    "seg2": "",
    "x": 889.0000419616699,
    "y": 541.9999237060547,
```

```

    "wires": []
  },
  {
    "id": "6a5f48b78fed54a",
    "type": "function",
    "z": "88f0bba260c26401",
    "name": "Attention : temperature & humidity",
    "func": "context.data = context.data || new Object();\n\nswitch (msg.topic) {\n  case\n    \"Temperature\":\n      context.data.temperature = msg.payload;\n      msg = null;\n      break;\n  case \"Humidity\":\n      context.data.humidity = msg.payload;\n      msg = null;\n      break;\n  default:\n      msg = null;\n      \tbreak;\n}\n\nif(context.data.temperature !== null &&\ncontext.data.humidity !== null && context.data.temperature !== undefined &&\ncontext.data.humidity !== undefined) {\n\tmsgOut = \"\"; //new Object();\n  msgOut =\n    \"Temperature : \"\n    msgOut += context.data.temperature.toString();\n    msgOut += \"°C -\n    Humidity : \";\n    msgOut += context.data.humidity.toString();\n    msgOut += \"%\";\n    context.data=null;\n    var msg = {};\n    msg.payload = msgOut;\n\treturn msg;\n}\n//else return\nmsg;";
    "outputs": 1,
    "noerr": 0,
    "x": 892.9999618530273,
    "y": 648.9999828338623,
    "wires": [
      [
        "ec845bae0880886f"
      ]
    ]
  },
  {
    "id": "687a17efabf7fbe9",
    "type": "ui_chart",
    "z": "88f0bba260c26401",
    "name": "History : Temperature & Humidity",

```

```
"group": "4de9506d.e7364",  
"order": 1,  
"width": "6",  
"height": "9",  
"label": "Temperature & Humidity",  
"chartType": "line",  
"legend": "true",  
"xformat": "%H:%M",  
"interpolate": "linear",  
"nodata": "No Data Yet",  
"dot": false,  
"ymin": "0",  
"ymax": "80",  
"removeOlder": "12",  
"removeOlderPoints": "",  
"removeOlderUnit": "3600",  
"cutout": "",  
"useOneColor": false,  
"colors": [  
    "#1f77b4",  
    "#aec7e8",  
    "#ff7f0e",  
    "#2ca02c",  
    "#98df8a",  
    "#d62728",  
    "#ff9896",  
    "#9467bd",  
    "#c5b0d5"  
],
```

```
"outputs": 2,  
"x": 940,  
"y": 580,  
"wires": [  
  [],  
  []  
]  
,  
{  
  "id": "e00ccc4466f779d9",  
  "type": "debug",  
  "z": "88f0bba260c26401",  
  "name": "",  
  "active": false,  
  "tosidebar": true,  
  "console": false,  
  "tostatus": false,  
  "complete": "true",  
  "x": 856.5590438842773,  
  "y": 615.6423416137695,  
  "wires": []  
},  
{  
  "id": "35fd025ad57eb273",  
  "type": "debug",  
  "z": "88f0bba260c26401",  
  "name": "",  
  "active": false,  
  "tosidebar": true,
```



```
"console": false,
"toaststatus": false,
"complete": "true",
"targetType": "full",
"statusVal": "",
"statusType": "auto",
"x": 411.5000419616699,
"y": 180.5347557067871,
"wires": []
},
{
  "id": "ad50aac197858fff",
  "type": "ui_toast",
  "z": "88f0bba260c26401",
  "position": "dialog",
  "displayTime": "3",
  "highlight": "",
  "outputs": 1,
  "ok": "OK",
  "cancel": "",
  "topic": "System In Use.",
  "name": "System In-Use Dialog",
  "x": 1051.1111793518066,
  "y": 212.1215353012085,
  "wires": [
    []
  ]
},
{
```

```

    "id": "9d8b7b8f677e062f",
    "type": "function",
    "z": "88f0bba260c26401",
    "name": "= 4 : System In Use",
    "func": "msg.payload = \"System is used by other user.\";\nreturn msg;",
    "outputs": 1,
    "noerr": 0,
    "x": 792.4443283081055,
    "y": 213.12152862548828,
    "wires": [
      [
        "ad50aac197858fff"
      ]
    ]
  },
  {
    "id": "84bbbbc8193fcbb2",
    "type": "function",
    "z": "88f0bba260c26401",
    "name": "Detect Session Timer",
    "func": "var sessionTimer = flow.get(\"sessionTimer\") || 0; \nvar currTime =
Date.now();\nvar SESSION_TIMEOUT = 20000; //20 secs\n\nif ( sessionTimer === 0 /* */ ) {\n
msg.payload = 2;\n} else {\n  if ( currTime - sessionTimer > SESSION_TIMEOUT ) {\n
msg.payload = 0; \n  } else {\n    msg.payload = 1;    \n  }\n}\nreturn msg;",
    "outputs": 1,
    "timeout": "",
    "noerr": 0,
    "initialize": "",
    "finalize": "",
    "libs": [],

```

```
"x": 406.00003814697266,
"y": 314.00000762939453,
"wires": [
  [
    "3e6db22a3b5115b7"
  ]
]
},
{
  "id": "1cbef793c1a5f4d3",
  "type": "inject",
  "z": "88f0bba260c26401",
  "name": "Timer",
  "repeat": "3",
  "crontab": "",
  "once": false,
  "onceDelay": 0.1,
  "topic": "",
  "payload": "",
  "payloadType": "date",
  "x": 218.00000762939453,
  "y": 347.99999237060547,
  "wires": [
    [
      "84bbbbc8193fcbb2",
      "5bd21c2be501f56e"
    ]
  ]
},
```

```
{
  "id": "3e6db22a3b5115b7",
  "type": "switch",
  "z": "88f0bba260c26401",
  "name": "",
  "property": "payload",
  "propertyType": "msg",
  "rules": [
    {
      "t": "eq",
      "v": "0",
      "vt": "str"
    },
    {
      "t": "eq",
      "v": "1",
      "vt": "str"
    },
    {
      "t": "eq",
      "v": "2",
      "vt": "str"
    }
  ],
  "checkall": "true",
  "repair": false,
  "outputs": 3,
  "x": 576.000072479248,
  "y": 312.00000762939453,
```

```

"wires": [
  [
    "4e7de052e721025c"
  ],
  [
    "a1bfaafffc087548"
  ],
  [
    "5a8e16a2399ed6f5"
  ]
]
},
{
  "id": "5bd21c2be501f56e",
  "type": "function",
  "z": "88f0bba260c26401",
  "name": "Calculating Remaining Time (Debug)",
  "func": "var sessionTimer = flow.get(\"sessionTimer\") || 0; \nvar currTime =
Date.now();\nvar remainingSecs = Math.floor((20000 - (currTime - sessionTimer))/1000) + 1;\n
\nif ( sessionTimer == 0 /* Inactive, No user signed in */) {\n  return null;\n} else {\n  \n  if (
remainingSecs <= 7 ) msg.payload = \"Remaining : \" + remainingSecs + \" secs\"; \n  else return
null;\n}\n\nmsg.socketid = flow.get(\"clientid\") || \"B1234\";\nreturn msg;\",
  "outputs": 1,
  "timeout": "",
  "noerr": 0,
  "initialize": "",
  "finalize": "",
  "libs": [],
  "x": 456.0000305175781,
  "y": 402.00002002716064,

```



```

"wires": [
  [
    "7366aa25af68881c"
  ]
]
},
{
  "id": "4e7de052e721025c",
  "type": "function",
  "z": "88f0bba260c26401",
  "name": "Time-Out",
  "func": "/* activate session timer */\nvar sessionTimer = flow.get(\"sessionTimer\") || 0;\n\nflow.set(\"sessionTimer\", 0);\n\nmsg.socketid = flow.get(\"clientid\") ||\nundefined;\nmsg.payload = \"Session Expired! Please singin again!\";\n\nreturn msg;",
  "outputs": 1,
  "noerr": 0,
  "x": 731.9999847412109,
  "y": 285.0000114440918,
  "wires": [
    [
      "603c2ffdad9eaf2b",
      "70396d82b2174cbf"
    ]
  ]
},
{
  "id": "a1bfaafffc087548",
  "type": "function",
  "z": "88f0bba260c26401",
  "name": "Sensor/History Goup",

```

```
"func": "var msg = {};\nmsg.socketid = flow.get(\"clientid\") || undefined;\nmsg.payload = {\n  group: {\n    show : [\"Dashboard_SensorData\", \"Dashboard_History\"],\n    hide :\n    [\"Dashboard_Signin\"]\n  }\n};\nreturn msg;\",
```

```
  \"outputs\": 1,
```

```
  \"noerr\": 0,
```

```
  \"x\": 773.5000305175781,
```

```
  \"y\": 326.00000381469727,
```

```
  \"wires\": [
```

```
    [
```

```
      \"55db954467dc40b6\"
```

```
    ]
```

```
  ]
```

```
},
```

```
{
```

```
  \"id\": \"5a8e16a2399ed6f5\",
```

```
  \"type\": \"function\",
```

```
  \"z\": \"88f0bba260c26401\",
```

```
  \"name\": \"Signin Goup\",
```

```
  \"func\": \"var msg = {};\nmsg.payload = { group: {\n    hide : [\"Dashboard_SensorData\",\n    \"Dashboard_History\"],\n    show : [\"Dashboard_Signin\"]\n  }\n};\nreturn msg;\",
```

```
  \"outputs\": 1,
```

```
  \"noerr\": 0,
```

```
  \"x\": 744.5000915527344,
```

```
  \"y\": 367.0000419616699,
```

```
  \"wires\": [
```

```
    [
```

```
      \"707f237da178f2be\"
```

```
    ]
```

```
  ]
```

```
},
```

```
{
  "id": "7366aa25af68881c",
  "type": "ui_toast",
  "z": "88f0bba260c26401",
  "position": "bottom right",
  "displayTime": "1",
  "highlight": "",
  "outputs": 0,
  "ok": "OK",
  "cancel": "",
  "topic": "Timer",
  "name": "Display Remaining Time",
  "x": 739.7222023010254,
  "y": 401.99999237060547,
  "wires": []
},
{
  "id": "603c2ffdad9eaf2b",
  "type": "ui_toast",
  "z": "88f0bba260c26401",
  "position": "dialog",
  "displayTime": "3",
  "highlight": "",
  "sendall": true,
  "outputs": 1,
  "ok": "OK",
  "cancel": "",
  "raw": false,
  "className": "",
```

```
"topic": "Session Timeout",
"name": "Time-Out Dialog",
"x": 919.500114440918,
"y": 251.0000114440918,
"wires": [
  []
],
{
  "id": "70396d82b2174cbf",
  "type": "function",
  "z": "88f0bba260c26401",
  "name": "Sign-In Redirection",
  "func": "var msg = {};\n\nmsg.socketid = flow.get(\"clientid\") || undefined;\nmsg.payload = {\n  group: {\n    hide: [\"Dashboard_SensorData\", \"Dashboard_History\"],\n    show: [\"Dashboard_Signin\"]\n  }\n};\n\nflow.set(\"clientid\", undefined);\nreturn msg;",
  "outputs": 1,
  "noerr": 0,
  "x": 930.0000228881836,
  "y": 288.00000762939453,
  "wires": [
    [
      "32095b3be68ddb26"
    ]
  ]
},
{
  "id": "55db954467dc40b6",
  "type": "ui_ui_control",
  "z": "88f0bba260c26401",
```

```
"name": "Stay in Sensor Group",
"x": 1076.500099182129,
"y": 326.0000057220459,
"wires": [
  []
]
},
{
  "id": "707f237da178f2be",
  "type": "ui_ui_control",
  "z": "88f0bba260c26401",
  "name": "Go to Signin Group",
  "x": 1064.5002479553223,
  "y": 364.0000419616699,
  "wires": [
    []
  ]
},
{
  "id": "32095b3be68ddb26",
  "type": "ui_ui_control",
  "z": "88f0bba260c26401",
  "name": "Go to Signin Group",
  "x": 1126.5000324249268,
  "y": 286.99999618530273,
  "wires": [
    []
  ]
},
},
```

```
{
  "id": "b82da486.9fc8d8",
  "type": "ui_group",
  "name": "Signin",
  "tab": "d65502b1.ee517",
  "order": 1,
  "disp": true,
  "width": "6",
  "collapse": false,
  "className": ""
},
{
  "id": "c35e46a8.b04ce8",
  "type": "ui_group",
  "name": "SensorData",
  "tab": "d65502b1.ee517",
  "order": 2,
  "disp": true,
  "width": "6",
  "collapse": false
},
{
  "id": "4de9506d.e7364",
  "type": "ui_group",
  "name": "History",
  "tab": "d65502b1.ee517",
  "order": 3,
  "disp": true,
  "width": "6",
```

```
    "collapse": false
  },
  {
    "id": "d65502b1.ee517",
    "type": "ui_tab",
    "name": "Dashboard",
    "icon": "dashboard",
    "order": 1
  }
]
```