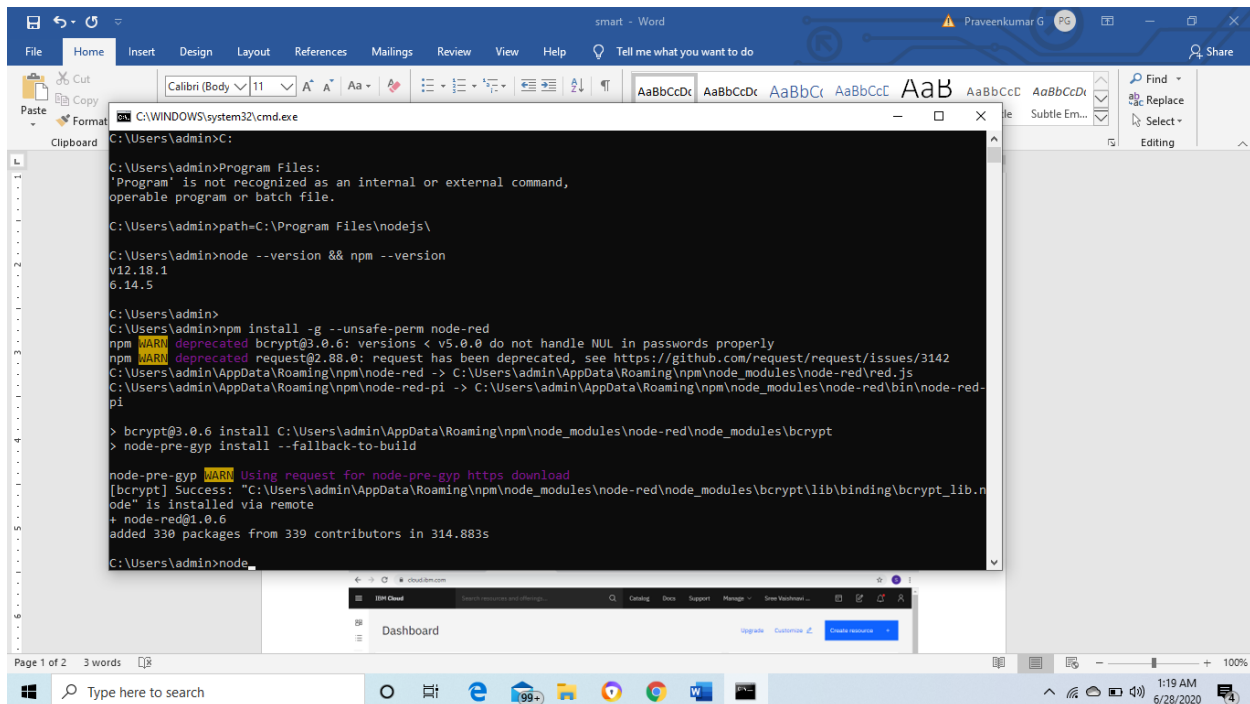
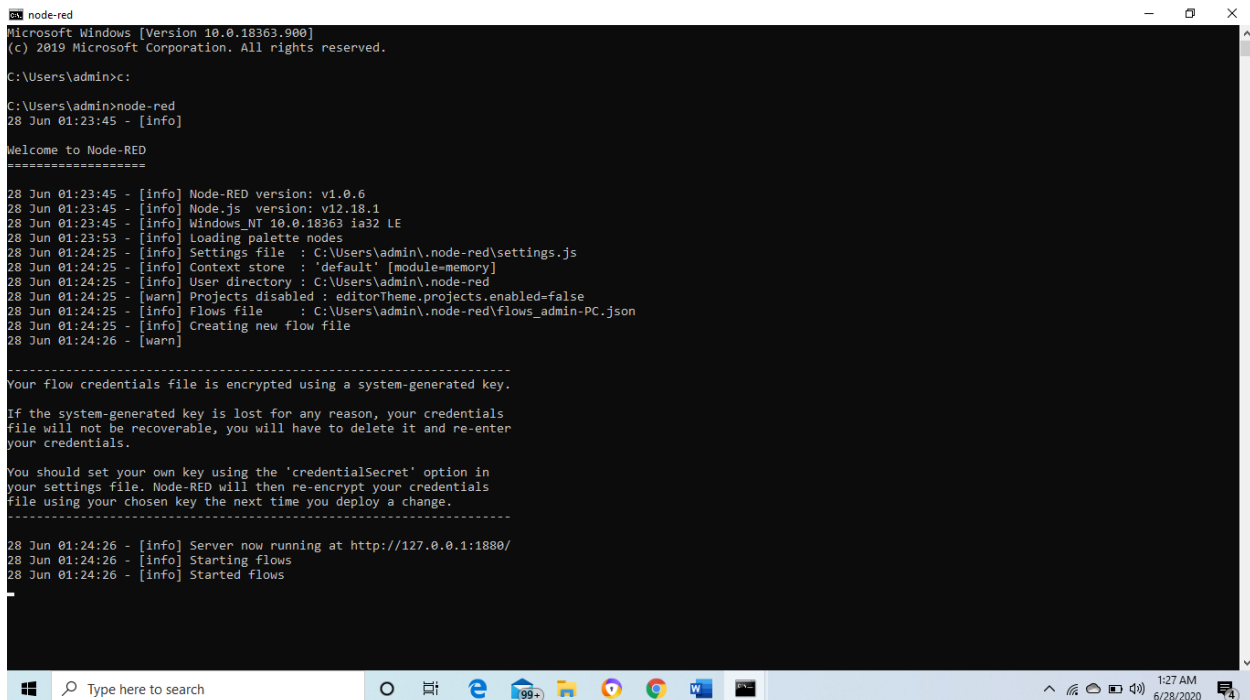


## Installing node- red locally:



```
C:\WINDOWS\system32\cmd.exe
C:\Users\admin>C:
C:\Users\admin>Program Files:
'Program' is not recognized as an internal or external command,
operable program or batch file.
C:\Users\admin>path=C:\Program Files\nodejs\
C:\Users\admin>node --version && npm --version
v12.18.1
6.14.5
C:\Users\admin>
C:\Users\admin>npm install -g --unsafe-perm node-red
npm WARN deprecated bcrypt@3.0.6: versions < v5.0.0 do not handle NUL in passwords properly
npm WARN deprecated request@2.88.0: request has been deprecated, see https://github.com/request/request/issues/3142
C:\Users\admin\AppData\Roaming\npm\node-red -> C:\Users\admin\AppData\Roaming\npm\node_modules\node-red\red.js
C:\Users\admin\AppData\Roaming\npm\node-red-pi -> C:\Users\admin\AppData\Roaming\npm\node_modules\node-red\bin\node-red-pi
> bcrypt@3.0.6 install C:\Users\admin\AppData\Roaming\npm\node_modules\node-red\node_modules\bcrypt
> node-pre-gyp install --fallback-to-build
node-pre-gyp WARN Using request for node-pre-gyp https download
[bcrypt] Success: "C:\Users\admin\AppData\Roaming\npm\node_modules\node-red\node_modules\bcrypt\lib\binding\bcrypt_lib.n
ode" is installed via remote
+ node-red@1.0.6
added 330 packages from 339 contributors in 314.883s
C:\Users\admin>node
```



```
node-red
Microsoft Windows [Version 10.0.18363.900]
(c) 2019 Microsoft Corporation. All rights reserved.

C:\Users\admin>c:
C:\Users\admin>node-red
28 Jun 01:23:45 - [info]

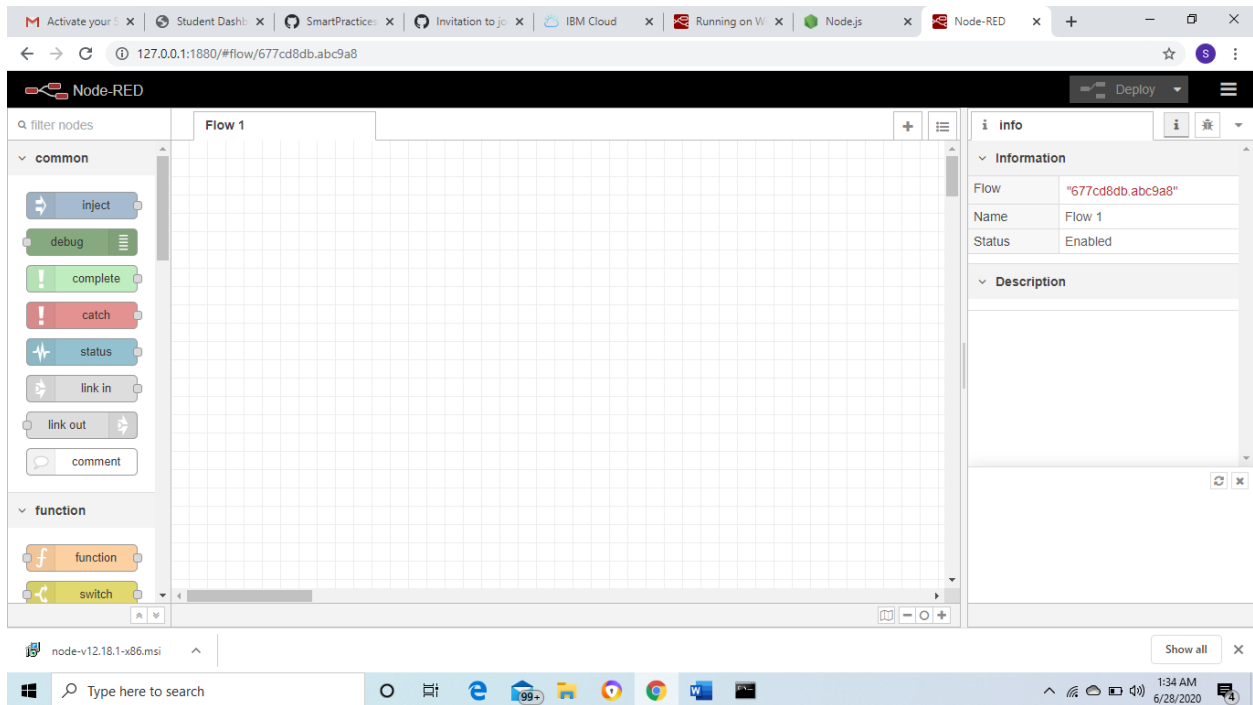
Welcome to Node-RED
=====
28 Jun 01:23:45 - [info] Node-RED version: v1.0.6
28 Jun 01:23:45 - [info] Node.js version: v12.18.1
28 Jun 01:23:45 - [info] Windows_NT 10.0.18363.1a32 LE
28 Jun 01:23:53 - [info] Loading palette nodes
28 Jun 01:24:25 - [info] Settings file : C:\Users\admin\node-red\settings.js
28 Jun 01:24:25 - [info] Context store : 'default' [module=memory]
28 Jun 01:24:25 - [info] User directory : C:\Users\admin\node-red
28 Jun 01:24:25 - [warn] Projects disabled: editorTheme.projects.enabled=false
28 Jun 01:24:25 - [info] Flows file : C:\Users\admin\node-red\flows_admin-PC.json
28 Jun 01:24:25 - [info] Creating new flow file
28 Jun 01:24:26 - [warn]

-----
Your flow credentials file is encrypted using a system-generated key.

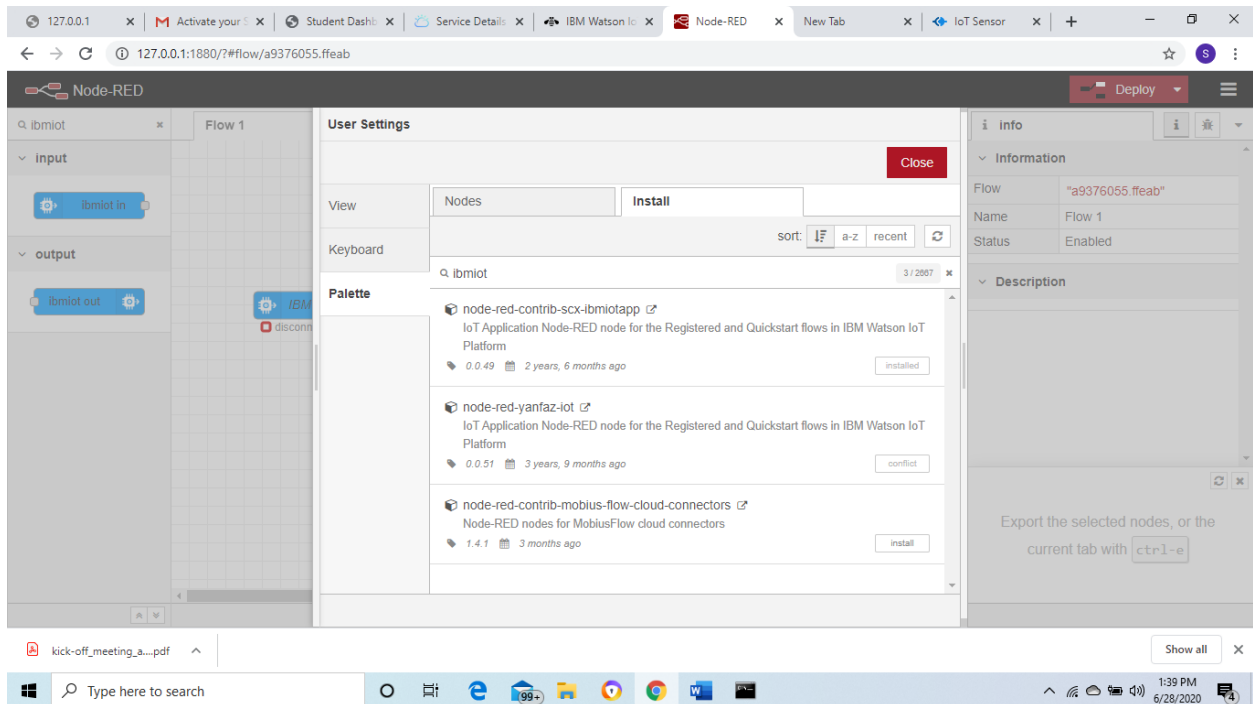
If the system-generated key is lost for any reason, your credentials
file will not be recoverable, you will have to delete it and re-enter
your credentials.

You should set your own key using the 'credentialSecret' option in
your settings file. Node-RED will then re-encrypt your credentials
file using your chosen key the next time you deploy a change.
-----
28 Jun 01:24:26 - [info] Server now running at http://127.0.0.1:1880/
28 Jun 01:24:26 - [info] Starting flows
28 Jun 01:24:26 - [info] Started flows
```

<http://127.0.0.1:1880/>



Installing the required nodes:



127.0.0.1 x Search results - sreevaishnavig@ x Node-RED x +

127.0.0.1:1880/?#flow/a9376055.ffeab

Node-RED

input

- ibmiot in

output

- ibmiot out

Flow 1

IBM IoT

info

Information

Node	"8e8167715f2e98"
Name	IBM IoT
Type	ibmiot in

show more

Description

Node Help

Input node that can be used with Watson IoT Platform to receive events sent from devices, receive commands sent to devices, or receive status updates concerning devices or applications. It produces an object called msg and sets **msg.payload** to be a String containing the payload of the incoming

Import a flow by dragging its JSON into the editor, or with **ctrl-i**

Type here to search

10:43 AM 6/28/2020

127.0.0.1 x Search results - sreevaishnavig@ x Node-RED x +

127.0.0.1:1880/?#flow/a9376055.ffeab

Node-RED

input

- ibmiot in

output

- ibmiot out

Flow 1

IBM IoT

disconnected

info

Information

Node	"8e8167715f2e98"
Name	IBM IoT
Type	ibmiot in

show more

Description

Node Help

Input node that can be used with Watson IoT Platform to receive events sent from devices, receive commands sent to devices, or receive status updates concerning devices or applications. It produces an object called msg and sets **msg.payload** to be a String containing the payload of the incoming

Hold down **ctrl** when you **click** on a node port to enable quick-wiring

127.0.0.1:1880/?#

Type here to search

10:45 AM 6/28/2020

127.0.0.1 x Activate your x Student Dash x Service Details x IBM Watson IoT x Node-RED x New Tab x IoT Sensor x

127.0.0.1:1880/?#flow/a9376055.ffeab

Node-RED

input

ibmiot in

output

ibmiot out

IBM IoT

connected

Edit ibmiot in node > Add new ibmiot config node

Cancel Add

Properties

Name

API Key

API Token

Server-Name

orgid.messaging.internetofthings.ibmcloud.com

Scalable

Application ID

Keep Alive

60 Seconds

Use Clean Session

Enabled 0 nodes use this config On all flows

Info

Information

Node

"8360c63b.4b7758"

Type

ibmiot

Description

Node Help

To use Shared subscription, check **Scalable** and provide the **Application ID**. The **Application ID** must be same across different clients.

Show the Info tab with `ctrl-g i` or the Debug tab with `ctrl-g d`

kick-off\_meeting\_a...pdf

Type here to search

1:46 PM 6/28/2020

127.0.0.1 x Activate your x Student Dash x Service Details x IBM Watson IoT x Node-RED x New Tab x IoT Sensor x

127.0.0.1:1880/?#flow/a9376055.ffeab

Node-RED

input

ibmiot in

output

ibmiot out

IBM IoT

disconnected

Edit ibmiot in node

Delete Cancel Done

Properties

Device Id

123456

Event

All or +

Format

All or json

QoS

0

Name

IBM IoT

Service

registered

Use the Input Type property to configure this node to receive Events sent by IoT Devices, Commands sent to IoT Devices, Status Messages referring to IoT Devices, or Status Messages referring to IoT Applications. Check the info tab, to get more information about each of the fields

Enabled

Info

Information

Node

"8e816771.5f2e98"

Name

IBM IoT

Type

ibmiot in

Description

Node Help

Input node that can be used with Watson IoT Platform to receive events sent from devices, receive commands sent to devices, or receive status updates concerning devices or applications. It produces an object called msg

Dragging a node onto a wire will splice it into the link

kick-off\_meeting\_a...pdf

Type here to search

1:50 PM 6/28/2020

127.0.0.1 x Activate your x Student Dashb x Service Details x IBM Watson IoT x Node-RED x New Tab x IoT Sensor x

127.0.0.1:1880/?#flow/a9376055.ffeab

Node-RED

input

ibmiot in

output

ibmiot out

Flow 1

IBM IoT  
connected

Save password?

Username: a-15c144-aa56hprg

Password: \*

Save Never

Input node that can be used with Watson IoT Platform to receive events sent from devices, receive commands sent to devices, or receive status updates concerning devices or applications. It produces an object called msg.

Hold down **ctrl** when you **click** on a node to add or remove it from the current selection

kick-off\_meeting\_a...pdf

Show all

Type here to search

1:51 PM 6/28/2020

127.0.0.1 x Activate your x Student Dashb x Service Details x IBM Watson IoT x Node-RED x New Tab x IoT Sensor x

127.0.0.1:1880/?#flow/a9376055.ffeab

Node-RED

filter nodes

common

inject

debug

complete

catch

status

link in

link out

comment

function

function

switch

Flow 1

IBM IoT  
connected

msg.payload

Deploy

info

Information

Flow: "a9376055.ffeab"

Name: Flow 1

Status: Enabled

Description

You can manage your palette of nodes with **alt-op**

kick-off\_meeting\_a...pdf

Show all

Type here to search

1:52 PM 6/28/2020

Node-RED interface showing a flow named "Flow 1". The flow consists of an "IBM IoT" node (connected) and a "msg.payload" node. A "Successfully deployed" message is displayed at the top. The right sidebar shows the "info" tab with the following information:

- Flow: "a9376055.ffeab"
- Name: Flow 1
- Status: Enabled
- Description: (Empty)

The bottom status bar shows the URL: 127.0.0.1:1880/?#

**We did not connect any simulator so we did not get any output**

**Give ibm iot sensor in url:**

Node-RED interface showing the same flow as the first image. The "debug" node is selected, and the right sidebar shows the "debug" tab with a list of messages:

- 6/28/2020, 1:56:17 PM node: 276e4d67.3d79e2  
iot-2/type/IoT\_Device1/Id/123456/evt/IoTSensor/fmt/json :  
msg.payload : Object  
» { d: object }
- 6/28/2020, 1:56:19 PM node: 276e4d67.3d79e2  
iot-2/type/IoT\_Device1/Id/123456/evt/IoTSensor/fmt/json :  
msg.payload : Object  
» { d: object }
- 6/28/2020, 1:56:21 PM node: 276e4d67.3d79e2  
iot-2/type/IoT\_Device1/Id/123456/evt/IoTSensor/fmt/json :  
msg.payload : Object  
» { d: object }
- 6/28/2020, 1:56:23 PM node: 276e4d67.3d79e2  
iot-2/type/IoT\_Device1/Id/123456/evt/IoTSensor/fmt/json :  
msg.payload : Object  
» { d: object }
- 6/28/2020, 1:56:25 PM node: 276e4d67.3d79e2  
iot-2/type/IoT\_Device1/Id/123456/evt/IoTSensor/fmt/json :  
msg.payload : Object  
» { d: object }

The bottom status bar shows the URL: 127.0.0.1:1880/?#debug

127.0.0.1 x Activate your Sub x Student Dashboard x Service Details - IE x IBM Watson IoT P x Node-RED x IoT Sensor x + -

127.0.0.1:1880/?#flow/a9376055.ffeab

Node-RED

filter nodes

Flow 1

function

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

network

debug

6/28/2020, 1:59:45 PM node: 276e4d67.3d79e2  
iot-2/type/IoT\_Device1/Id/123456/evt/IoTSensor/rmtljson :  
msg.payload : Object  
object  
d: object  
name: "123456"  
temperature: 16  
humidity: 78  
objectTemp: 24

6/28/2020, 1:59:47 PM node: 276e4d67.3d79e2  
iot-2/type/IoT\_Device1/Id/123456/evt/IoTSensor/rmtljson :  
msg.payload : Object  
{ d: object }

6/28/2020, 1:59:49 PM node: 276e4d67.3d79e2  
iot-2/type/IoT\_Device1/Id/123456/evt/IoTSensor/rmtljson :  
msg.payload : Object  
{ d: object }

6/28/2020, 1:59:51 PM node: 276e4d67.3d79e2  
iot-2/type/IoT\_Device1/Id/123456/evt/IoTSensor/rmtljson :  
msg.payload : Object  
{ d: object }

kick-off\_meeting\_a...pdf

Type here to search

2:07 PM 6/28/2020

127.0.0.1 x Activate your Sub x Student Dashboard x Service Details - IE x IBM Watson IoT P x Node-RED x IoT Sensor x + -

127.0.0.1:1880/?#flow/a9376055.ffeab

Node-RED

Successfully deployed

filter nodes

Flow 1

function

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

network

debug

6/28/2020, 1:59:45 PM node: 276e4d67.3d79e2  
iot-2/type/IoT\_Device1/Id/123456/evt/IoTSensor/rmtljson :  
msg.payload : Object  
object  
d: object  
name: "123456"  
temperature: 16  
humidity: 78  
objectTemp: 24

6/28/2020, 1:59:47 PM node: 276e4d67.3d79e2  
iot-2/type/IoT\_Device1/Id/123456/evt/IoTSensor/rmtljson :  
msg.payload : Object  
{ d: object }

6/28/2020, 1:59:49 PM node: 276e4d67.3d79e2  
iot-2/type/IoT\_Device1/Id/123456/evt/IoTSensor/rmtljson :  
msg.payload : Object  
{ d: object }

6/28/2020, 1:59:51 PM node: 276e4d67.3d79e2  
iot-2/type/IoT\_Device1/Id/123456/evt/IoTSensor/rmtljson :  
msg.payload : Object  
{ d: object }

kick-off\_meeting\_a...pdf

Type here to search

2:07 PM 6/28/2020

Node-RED interface showing a flow named "Flow 1". The flow starts with an "IBM IoT" node (connected), which connects to three function nodes: "Temp", "Humidity", and "soil\_moisture". These function nodes connect to a "msg payload" node. The "debug" console on the right shows the following log entries:

```
6/28/2020, 2:14:48 PM node: 276e4d67.3d79e2
iot-2/type/IoT_Device1/d/123456/evt/IoTSensor/rmtljson :
msg.payload : Object
{ d: object }

6/28/2020, 2:14:48 PM node: 276e4d67.3d79e2
iot-2/type/IoT_Device1/d/123456/evt/IoTSensor/rmtljson :
msg.payload : number
16

6/28/2020, 2:14:48 PM node: 276e4d67.3d79e2
iot-2/type/IoT_Device1/d/123456/evt/IoTSensor/rmtljson :
msg.payload : number
78

6/28/2020, 2:14:48 PM node: 276e4d67.3d79e2
iot-2/type/IoT_Device1/d/123456/evt/IoTSensor/rmtljson :
msg.payload : number
24

6/28/2020, 2:14:50 PM node: 276e4d67.3d79e2
iot-2/type/IoT_Device1/d/123456/evt/IoTSensor/rmtljson :
msg.payload : Object
{ d: object }
```

The interface also shows a sidebar with "function" and "network" node categories, and a Windows taskbar at the bottom.

### Install node-dashboard:

Node-RED interface showing the same flow as the previous image, but with a "gauge" node added to the output. The flow is: "IBM IoT" (connected) → "Temp" → "Humidity" → "soil\_moisture" → "msg payload" → "gauge". The "debug" console on the right shows the following log entries:

```
6/28/2020, 2:19:02 PM node: 276e4d67.3d79e2
iot-2/type/IoT_Device1/d/123456/evt/IoTSensor/rmtljson :
msg.payload : number
16

6/28/2020, 2:19:02 PM node: 276e4d67.3d79e2
iot-2/type/IoT_Device1/d/123456/evt/IoTSensor/rmtljson :
msg.payload : number
78

6/28/2020, 2:19:02 PM node: 276e4d67.3d79e2
iot-2/type/IoT_Device1/d/123456/evt/IoTSensor/rmtljson :
msg.payload : number
24

6/28/2020, 2:19:04 PM node: 276e4d67.3d79e2
iot-2/type/IoT_Device1/d/123456/evt/IoTSensor/rmtljson :
msg.payload : number
16

6/28/2020, 2:19:04 PM node: 276e4d67.3d79e2
iot-2/type/IoT_Device1/d/123456/evt/IoTSensor/rmtljson :
msg.payload : number
78
```

The interface also shows a sidebar with "function" and "network" node categories, and a Windows taskbar at the bottom.



Node-RED interface showing the configuration of a new dashboard group. The flow includes an IBM IoT node connected to Temp, Humidity, and soil\_moisture nodes. The configuration panel shows Name: Temperature, Tab: LatestNode-red training, Width: 6, and Display group name checked.

Properties:

- Name: Temperature
- Tab: LatestNode-red training
- Width: 6
- ☒ Display group name
- ☐ Allow group to be collapsed

Debug console shows messages from the IoT device:

```

6/28/2020, 2:21:58 PM node: 276e4d67.3d79e2
iot-2/type/IoT_Device1/d/123456/evt/IoTSensor/rmtljson :
msg.payload : number
16

6/28/2020, 2:21:58 PM node: 276e4d67.3d79e2
iot-2/type/IoT_Device1/d/123456/evt/IoTSensor/rmtljson :
msg.payload : number
78

6/28/2020, 2:21:58 PM node: 276e4d67.3d79e2
iot-2/type/IoT_Device1/d/123456/evt/IoTSensor/rmtljson :
msg.payload : number
24

6/28/2020, 2:22:00 PM node: 276e4d67.3d79e2
iot-2/type/IoT_Device1/d/123456/evt/IoTSensor/rmtljson :
msg.payload : number
16

6/28/2020, 2:22:00 PM node: 276e4d67.3d79e2
iot-2/type/IoT_Device1/d/123456/evt/IoTSensor/rmtljson :
msg.payload : number
78
  
```

Node-RED interface showing the flow after deployment. The flow includes an IBM IoT node connected to Temp, Humidity, and soil\_moisture nodes, which are then connected to a msg payload node and a Temperature gauge node.

Debug console shows messages from the IoT device:

```

6/28/2020, 2:24:16 PM node: 276e4d67.3d79e2
iot-2/type/IoT_Device1/d/123456/evt/IoTSensor/rmtljson :
msg.payload : number
16

6/28/2020, 2:24:16 PM node: 276e4d67.3d79e2
iot-2/type/IoT_Device1/d/123456/evt/IoTSensor/rmtljson :
msg.payload : number
78

6/28/2020, 2:24:16 PM node: 276e4d67.3d79e2
iot-2/type/IoT_Device1/d/123456/evt/IoTSensor/rmtljson :
msg.payload : number
24

6/28/2020, 2:24:18 PM node: 276e4d67.3d79e2
iot-2/type/IoT_Device1/d/123456/evt/IoTSensor/rmtljson :
msg.payload : number
16

6/28/2020, 2:24:18 PM node: 276e4d67.3d79e2
iot-2/type/IoT_Device1/d/123456/evt/IoTSensor/rmtljson :
msg.payload : number
78
  
```

**After deploying copy the url upto/ui and paste in url:**

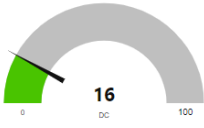
127.0.0.1 x Activate x Student x Service D x IBM Wat x Node-RE x IoT Sens x Node-RE x Node-RE x Node-RE x

127.0.0.1:1880/ui/#/0?socketid=vJAZPOhoVASHECxcAAAO

### LatestNode-red training

#### Temperature

Temperature



A semi-circular gauge with a green needle pointing to the number 16. The scale ranges from 0 to 100 with 'DC' in the center.

16  
DC

kick-off\_meeting\_a...pdf

Show all

Type here to search

127.0.0.1 x Activate x Student x Service D x IBM Wat x Node-RE x IoT Sens x Node-RE x Node-RE x Node-RE x

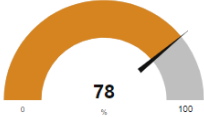
127.0.0.1:1880/ui/#/1?socketid=pdfnCI09btIPY8zSAAAQ

Node-RED  
127.0.0.1:1880

### new humidity tab

#### humidity

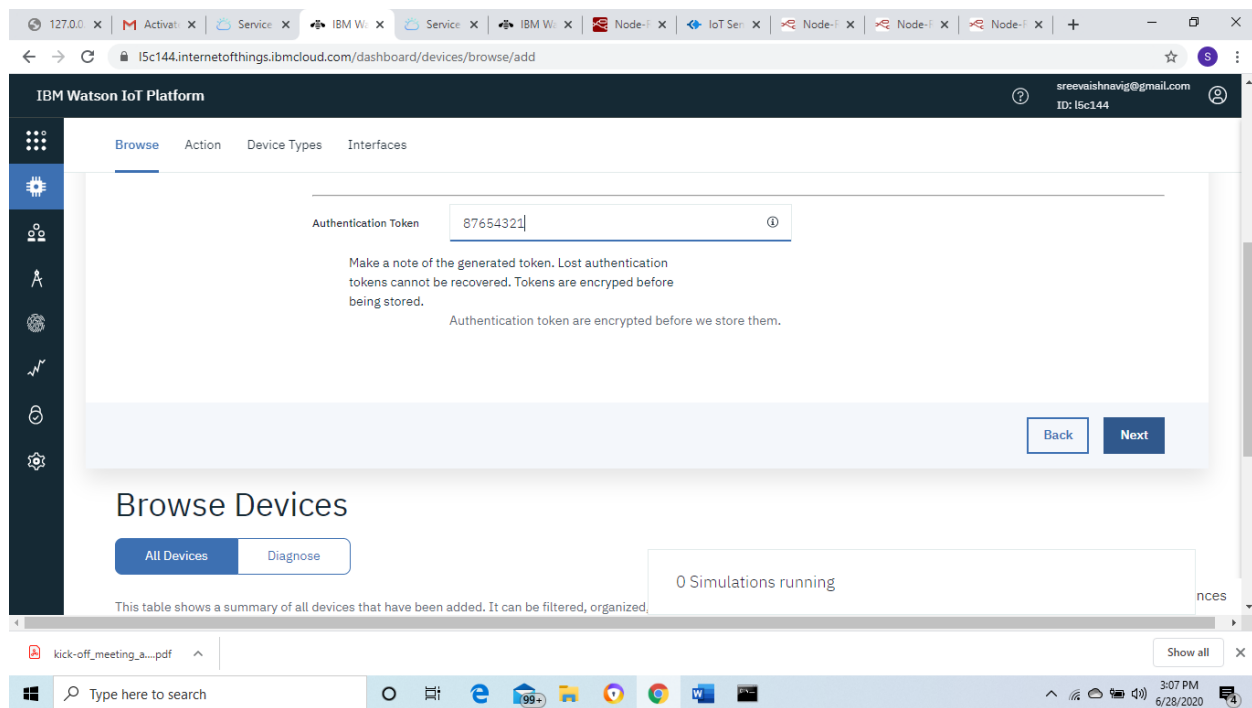
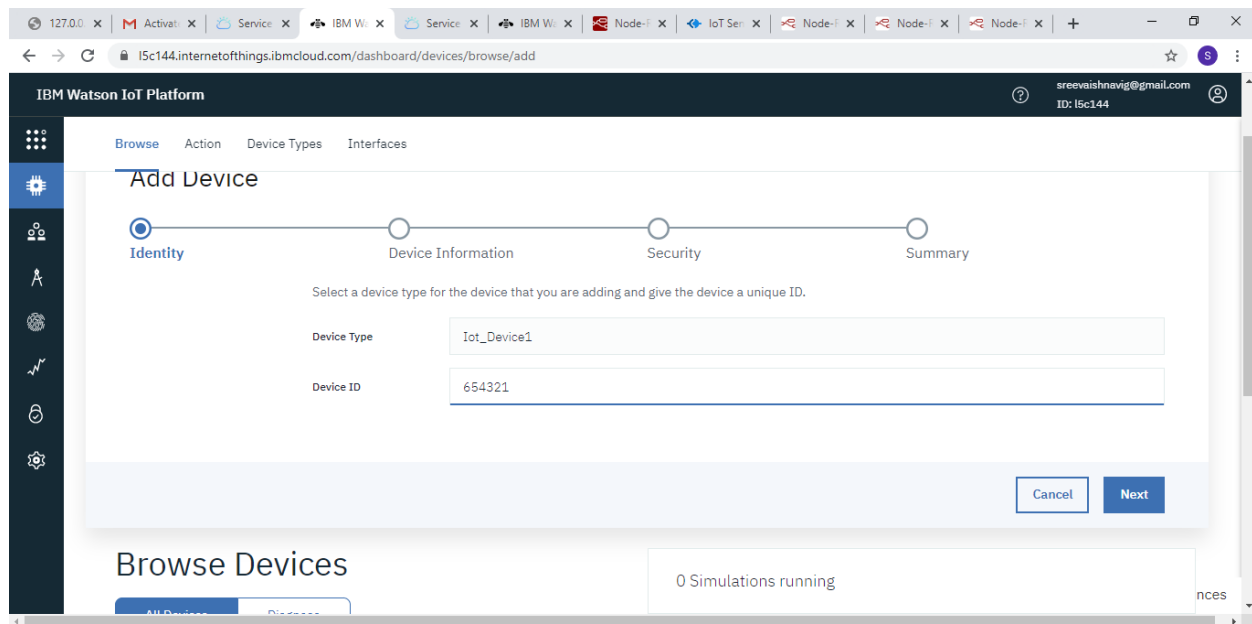
humidity



A semi-circular gauge with an orange needle pointing to the number 78. The scale ranges from 0 to 100 with '%' in the center.

78  
%

***Ctreating banother device:***



2<sup>nd</sup> device::

Organization ID: l5c144

Device Type: lot\_Device1

Device ID:654321

Authentication Method : use-token-auth

Authentication Token:87654321

The screenshot displays the Node-RED web interface in a browser window. The address bar shows the URL `127.0.0.1:1880/?#flow/a9376055.ffeab`. The main workspace shows a flow named "Flow 1" with an "ibmiot in" node connected to "Temp", "Humidity", and "soil\_moisture" nodes, which then connect to an "ibmiot out" node. The "Edit ibmiot out node" dialog is open, showing the following configuration:

- Authentication: API Key
- API Key: 8360c63b.4b7758
- Output Type: Device Event
- Device Type: Iot\_Device1
- Device Id: 654321
- Event Type: home
- Format: json
- Data: data

The "debug" console on the right shows a series of messages from the "ibmiot out" node, each containing a timestamp, node ID, and a JSON payload. The messages are as follows:

```
6/28/2020, 3:12:06 PM node: 276e4d67.3d79e2
iot-2/type/Iot_Device1/Id/123456/evt/Iotsensor/fmt/json :
msg.payload : number
78

6/28/2020, 3:12:06 PM node: 276e4d67.3d79e2
iot-2/type/Iot_Device1/Id/123456/evt/Iotsensor/fmt/json :
msg.payload : number
24

6/28/2020, 3:12:08 PM node: 276e4d67.3d79e2
iot-2/type/Iot_Device1/Id/123456/evt/Iotsensor/fmt/json :
msg.payload : number
16

6/28/2020, 3:12:08 PM node: 276e4d67.3d79e2
iot-2/type/Iot_Device1/Id/123456/evt/Iotsensor/fmt/json :
msg.payload : number
78

6/28/2020, 3:12:08 PM node: 276e4d67.3d79e2
iot-2/type/Iot_Device1/Id/123456/evt/Iotsensor/fmt/json :
msg.payload : number
24
```

The Windows taskbar at the bottom shows the time as 3:12 PM on 6/28/2020.

The screenshot shows the Node-RED web interface. The main workspace displays a flow with three input nodes: 'ibmiot in', 'Temp', 'Humidity', and 'soil\_moisture'. The 'Temp' node is connected to the 'ibmiot in' node. The 'Humidity' and 'soil\_moisture' nodes are connected to the 'ibmiot in' node. The 'ibmiot in' node is connected to the 'ibmiot out' node. The 'ibmiot out' node is connected to the 'Temp' node. The 'ibmiot out' node is connected to the 'Humidity' node. The 'ibmiot out' node is connected to the 'soil\_moisture' node. The 'ibmiot out' node is connected to the 'Temp' node. The 'ibmiot out' node is connected to the 'Humidity' node. The 'ibmiot out' node is connected to the 'soil\_moisture' node.

The 'Edit ibmiot out node' dialog is open, showing the following properties:

- Authentication: API Key
- API Key: 8360c63b.4b7758
- Output Type: Device Command
- Device Type: Iot\_Device1
- Device ID: 654321
- Command Type: home
- Format: json
- Data: data

The debug console shows the following log messages:

```

6/28/2020, 3:12:30 PM node: 276e4d67.3d79e2
iot-2/type/Iot_Device1/Id/123456/evt/IotSensor/fmt/json :
msg.payload : number
78

6/28/2020, 3:12:30 PM node: 276e4d67.3d79e2
iot-2/type/Iot_Device1/Id/123456/evt/IotSensor/fmt/json :
msg.payload : number
24

6/28/2020, 3:12:32 PM node: 276e4d67.3d79e2
iot-2/type/Iot_Device1/Id/123456/evt/IotSensor/fmt/json :
msg.payload : number
16

6/28/2020, 3:12:32 PM node: 276e4d67.3d79e2
iot-2/type/Iot_Device1/Id/123456/evt/IotSensor/fmt/json :
msg.payload : number
78

6/28/2020, 3:12:32 PM node: 276e4d67.3d79e2
iot-2/type/Iot_Device1/Id/123456/evt/IotSensor/fmt/json :
msg.payload : number
24

```

The IBM Watson IoT Platform dashboard is also visible, showing a table of devices:

Device ID	Status	Device Type	Class ID	Date Added
123456	Connected	Iot_Device1	Device	Jun 28, 2020 11:18 AM
654321	Disconnected	Iot_Device1	Device	Jun 28, 2020 3:07 PM

0 Simulations running

**Choose two buttons from palette:**

Node-RED interface showing a flow with nodes: Temp, Humidity, soil\_moisture, and button. The 'button' node is selected, and its properties are being edited. The 'When clicked, send:' section is configured to send a payload of {}.

**Edit button node**

Delete Cancel Done

**Properties**

Group: [new moisture tab] Temperature

Size: auto

Icon: optional icon

Label: motoron

Tooltip: optional tooltip

Colour: optional text/icon color

Background: optional background color

When clicked, send:

Payload: {}

Enabled

**debug**

6/28/2020, 3:15:10 PM node: 276e4d67.3d79e2  
iot-2/type/IoT\_Device1/Id/123456/evt/IoTSensor/fmt/json :  
msg.payload : number  
78

6/28/2020, 3:15:10 PM node: 276e4d67.3d79e2  
iot-2/type/IoT\_Device1/Id/123456/evt/IoTSensor/fmt/json :  
msg.payload : number  
24

6/28/2020, 3:15:12 PM node: 276e4d67.3d79e2  
iot-2/type/IoT\_Device1/Id/123456/evt/IoTSensor/fmt/json :  
msg.payload : number  
16

6/28/2020, 3:15:12 PM node: 276e4d67.3d79e2  
iot-2/type/IoT\_Device1/Id/123456/evt/IoTSensor/fmt/json :  
msg.payload : number  
78

6/28/2020, 3:15:12 PM node: 276e4d67.3d79e2  
iot-2/type/IoT\_Device1/Id/123456/evt/IoTSensor/fmt/json :  
msg.payload : number  
24

new humidity tab

humidity

humidity

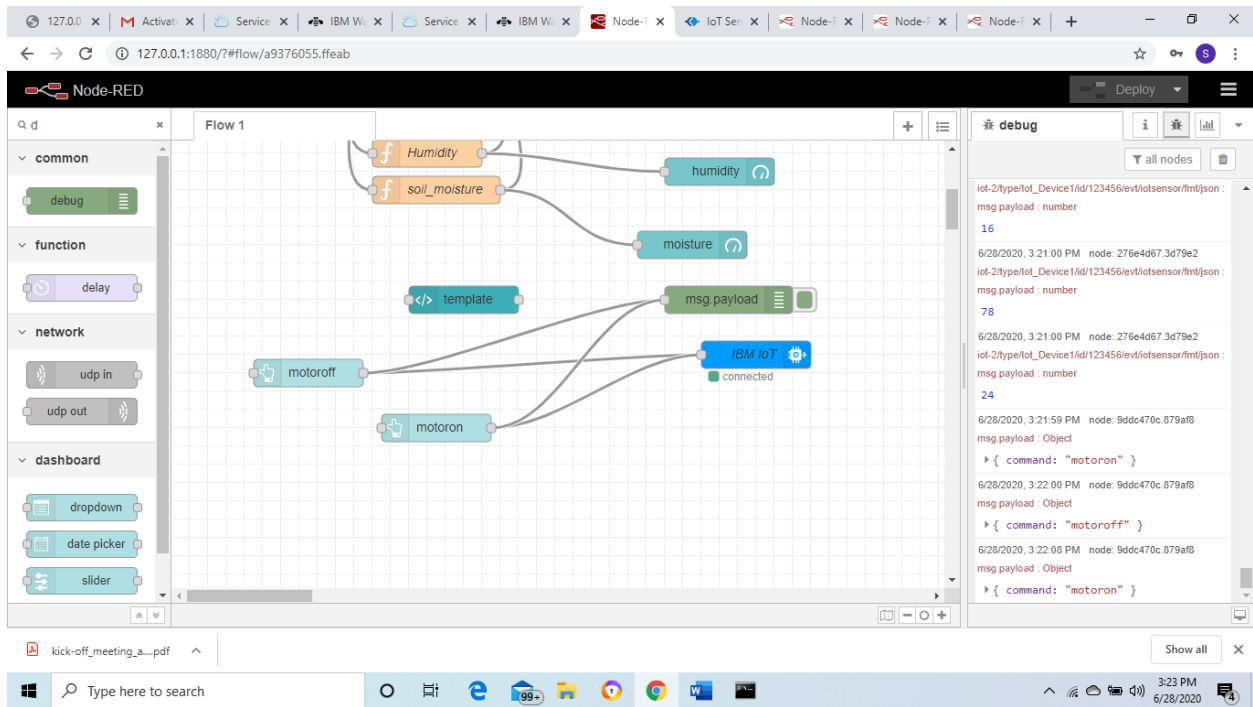
78

0 100

MOTORON

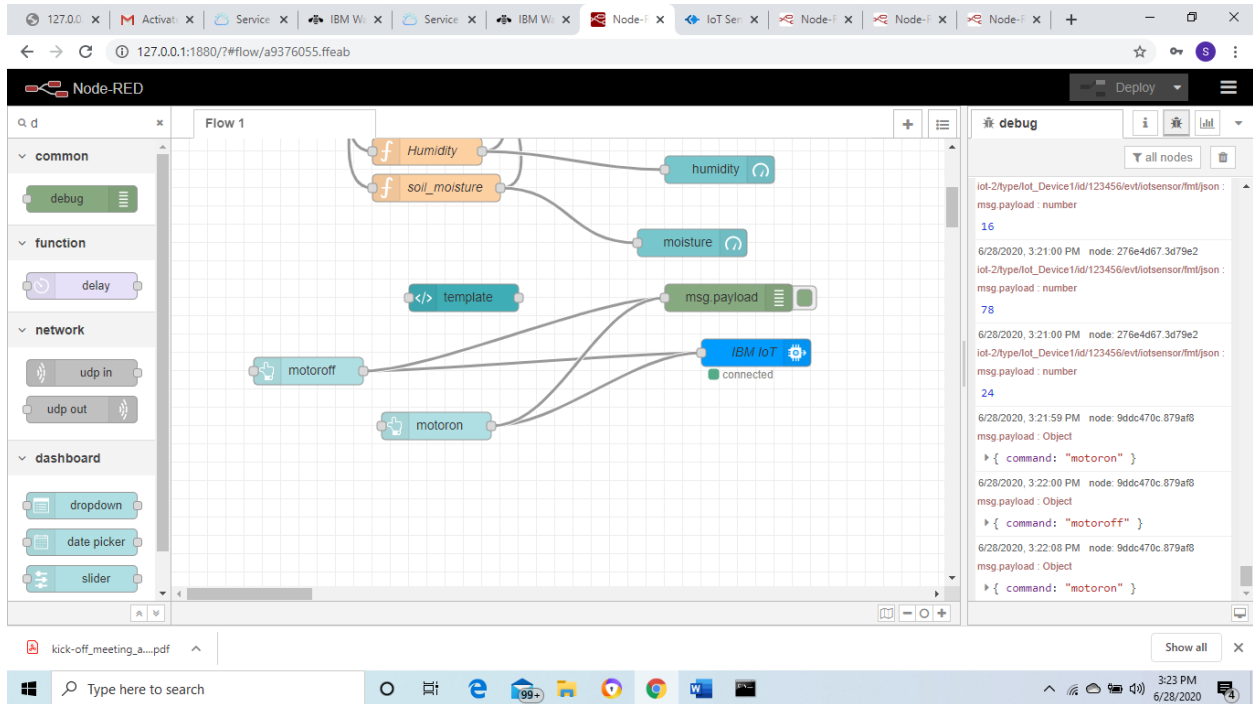
MOTOROFF

Node-RED interface showing a flow for IoT sensor data processing. The flow includes nodes for Humidity, soil\_moisture, humidity, moisture, template, msg payload, motoroff, motoron, and IBM IoT. The debug console shows messages from the IBM IoT node, including commands like "motoron" and "motoroff".



## Python idle:

Python idle interface showing the same Node-RED flow as above. The debug console shows messages from the IBM IoT node, including commands like "motoron" and "motoroff".



127.0.0.1 x Activate your Sub... x Student Dashboar... x Service Details - IE x IBM Watson IoT P... x Node-RED x IoT Sensor x + -

127.0.0.1:1880/?#flow/a9376055.ffeab

Node-RED

Deploy

filter nodes

Flow 1

function

function

switch

change

range

template

delay

trigger

exec

rbe

network

User Settings

Close

View Nodes Install

Keyboard

sort: If a-z recent

Palette

dashboard 37 / 2807

cn-dashboard-nodes

## Install

0.0.2 1 year, 11 months ago

install

feezal

Web Components based Dashboard UI with WYSIWYG Editor

0.6.2 3 months ago

install

node-red-contrib-dashboard-average-bars

Calculate and display the average values of msg.payload in a bar chart.

0.0.6 1 year, 10 months ago

install

debug

all nodes

6/28/2020, 2:16:36 PM node: 276e4d67.3d79e2  
iot-2/type/IoT\_Device1/Id/123456/evt/IoTSensor/rtm/json :  
msg.payload : number  
16

6/28/2020, 2:16:36 PM node: 276e4d67.3d79e2  
iot-2/type/IoT\_Device1/Id/123456/evt/IoTSensor/rtm/json :  
msg.payload : number  
78

6/28/2020, 2:16:36 PM node: 276e4d67.3d79e2  
iot-2/type/IoT\_Device1/Id/123456/evt/IoTSensor/rtm/json :  
msg.payload : number  
24

6/28/2020, 2:16:38 PM node: 276e4d67.3d79e2  
iot-2/type/IoT\_Device1/Id/123456/evt/IoTSensor/rtm/json :  
msg.payload : number  
16

6/28/2020, 2:16:38 PM node: 276e4d67.3d79e2  
iot-2/type/IoT\_Device1/Id/123456/evt/IoTSensor/rtm/json :  
msg.payload : number  
78

kick-off\_meeting\_a...pdf

Type here to search

99+

2:17 PM 6/28/2020