

IBM (32) (32) N IBM-3 Passw IBM-P Applic Nc x IBM V An Err +

vishnu-smart-farmer.au-syd.mybluemix.net/red/#flow/a524f29b64bd52ec

Node-RED Deploy

filter nodes project_flow Flow 3 project_flow

http in
http response
http request
websocket in
websocket out
tcp in
tcp out
tcp request
udp in
udp out

input
ibmiot in

output

IBM IoT

Search flows

Flows

- Flow 1
- project_flow
- Flow 3
- project_flow

Subflows

Global Configuration Nodes

Flow 3

Flow "a524f29b64bd52ec"

Activate Windows
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30°C Sunny 11:48 AM

IBM (32) (32) N IBM-3 Passw IBM-P Applic Nc x IBM V An Err + vishnu-smart-farmer.au-syd.mybluemix.net/red/#flow/a524f29b64bd52ec

Node-RED Deploy

filter nodes project_flow Flow 3 project_flow

debug complete catch status link in link call link out comment

function function switch change range template

IBM IoT function function function

info Search flows

- Flows
 - Flow 1
 - project_flow
 - Flow 3
 - project_flow
- Subflows
- Global Configuration Nodes

Flow 3

Flow "a524f29b64bd52ec"

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Satisfactory air ENG 11:48 AM

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← → ↻ vishnu-smart-farmer.au-syd.mybluemix.net/red/#flow/a524f29b64bd52ec

Node-RED

filter nodes

debug

complete

catch

status

link in

link call

link out

comment

function

function

switch

change

range

template

project_flow

Flow 3

project_flow

IBM IoT

function

function

function

info

Search flows

Flows

- Flow 1
- project_flow
- Flow 3
- project_flow

Subflows

Global Configuration Nodes

Flow 3

Flow

"a524f29b64bd52ec"

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Satisfactory air

ENG 11:49 AM

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Node-RED Deploy

filter nodes project_flow Flow 3 project_flow

switch slider numeric text input date picker colour picker form text gauge chart audio out notification ui control template

function function function gauge chart chart

IBM IoT

info Search flows

- Flows
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Flow 3

Flow "a524f29b64bd52ec"

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Node-RED

Deploy

Edit function node

Delete Cancel Done

Properties

Name: Soil moisture

Setup On Start **On Message** On Stop

```
1 global.set('moist',msg.payload.soil_moisture)
2 msg.payload.msg.payload.soil_moisture
3 return msg;
```

Enabled

info

Search flows

- Flows
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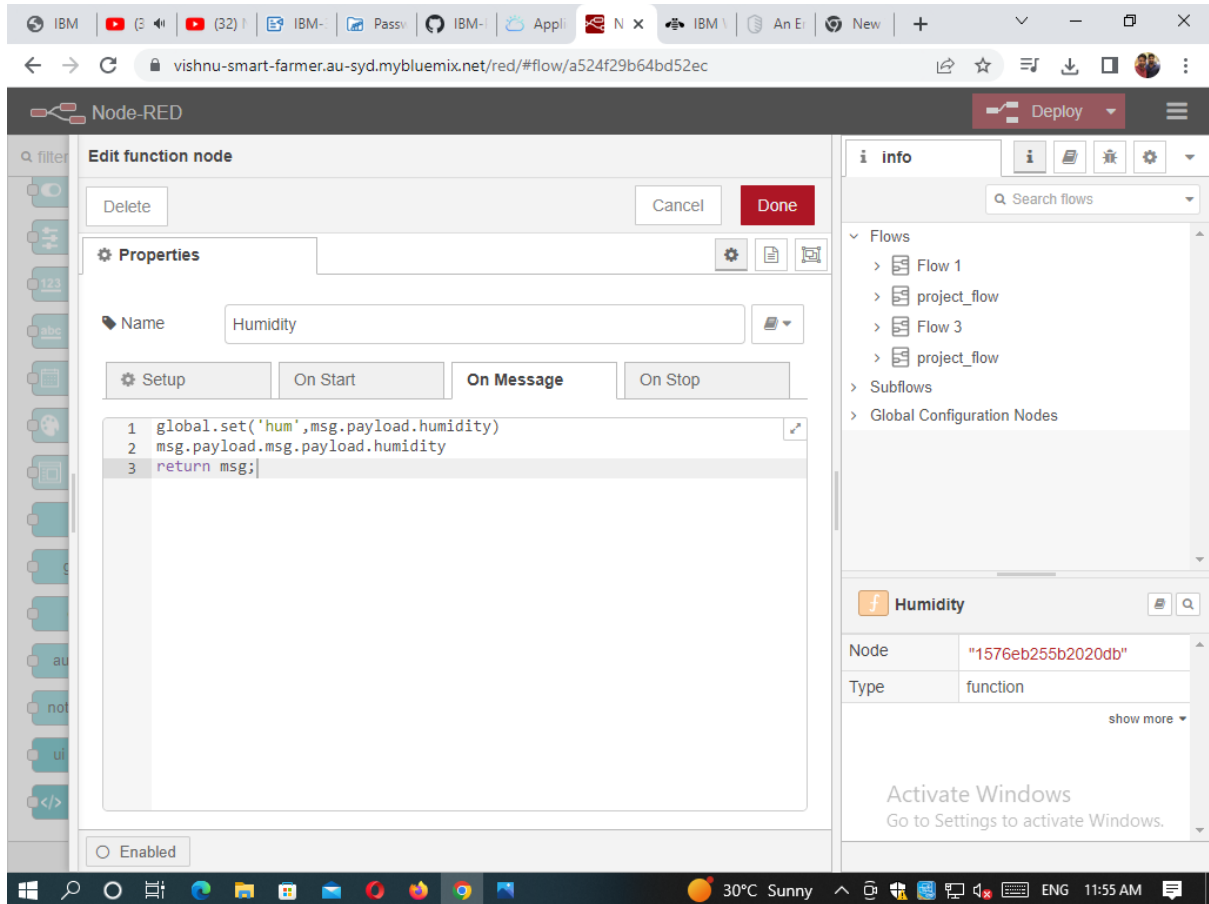
function: 827d5c2aa7db3556

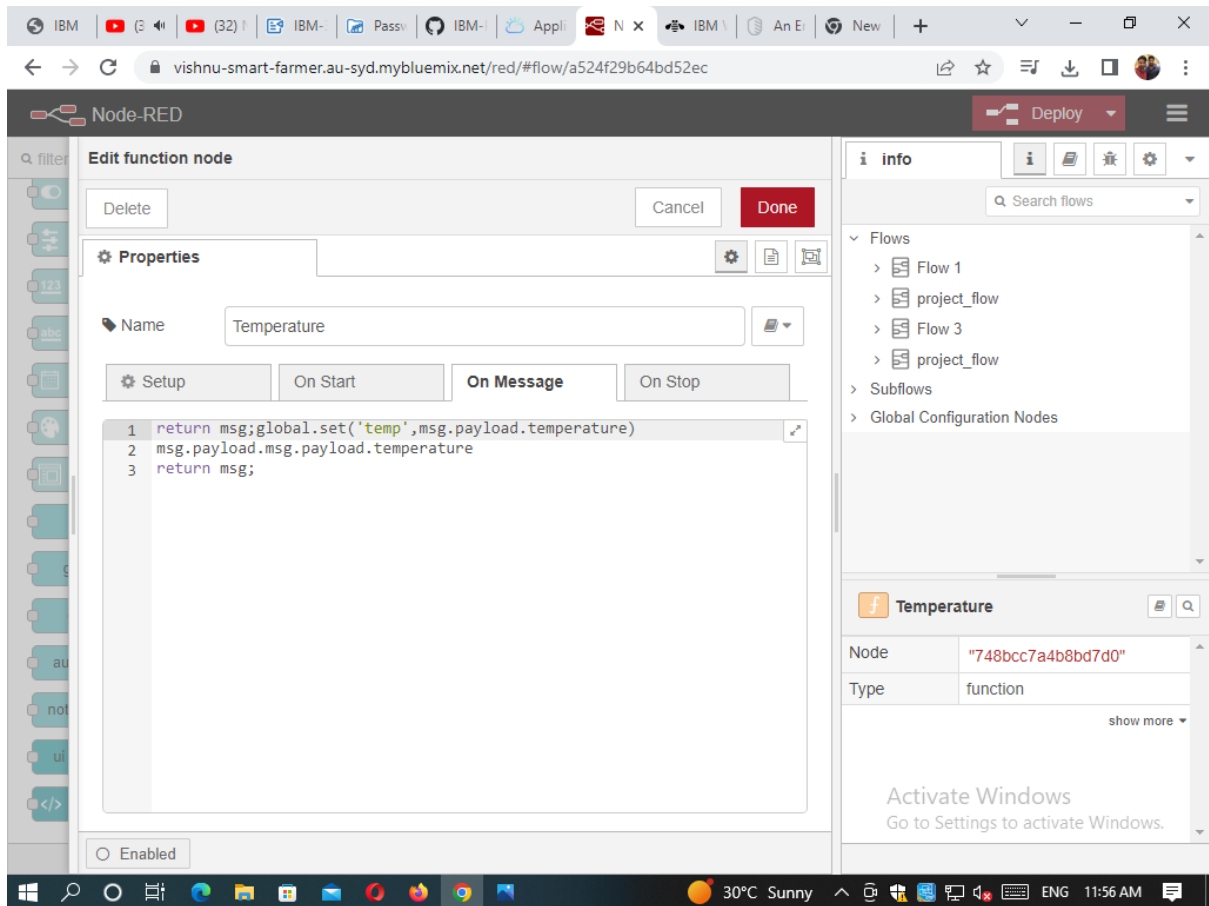
Node	"827d5c2aa7db3556"
Type	function

show more

Activate Windows
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vishnu-smart-farmer.au-syd.mybluemix.net/red/#flow/81b7a6904894488a

Node-RED

filter nodes

- switch
- slider
- numeric
- text input
- date picker
- colour picker
- form
- text
- gauge
- chart
- audio out
- notification
- ui control
- template

Edit gauge node

Delete Cancel Done

Properties

Group: [Smart-farmer-lot] Default

Size: 6 x 8


Type: Gauge

Label: Soil moisture

Value format: {{value}}

Units: units

Range: min 0 max 100

Colour gradient: 

Sectors: 0 ... optional ... optional ... 100

Class: Optional CSS class name(s) for widget

☐ Enabled

info

Search flows

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Soil moisture

Node: "b2e8074121346e5b"

Type: ui_gauge

show more

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← → ↻ vishnu-smart-farmer.au-syd.mybluemix.net/red/#flow/81b7a6904894488a

Node-RED Deploy

filter nodes

- switch
- slider
- numeric
- text input
- date picker
- colour picker
- form
- text
- gauge
- chart
- audio out
- notification
- ui control
- template

Edit chart node

Delete Cancel Done

Properties

Group [Smart-farmer-iot] Default

Size 5 x 7

Label Humidity

Type Line chart ☐ enlarge points

X-axis last 1 hours OR 1000 points

X-axis Label HH:mm:ss ☐ as UTC

Y-axis min max

Legend None Interpolate linear

Series Colours

Enabled

info

Search flows

Flows

- Flow 1
- project_flow
- Flow 3
- project_flow
- Subflows
- Global Configuration Nodes

Humidity

Node "62382db2ecb6bd78"

Type ui_chart

show more

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← → ↻ vishnu-smart-farmer.au-syd.mybluemix.net/red/#flow/81b7a6904894488a

Node-RED

filter nodes

- switch
- slider
- numeric
- text input
- date picker
- colour picker
- form
- text
- gauge
- chart
- audio out
- notification
- ui control
- template

Edit chart node

Delete Cancel Done

Properties

Group [Smart-farmer-lot] Default

Size 2 x 5

Label Temperature

Type Line chart ☐ enlarge points

X-axis last 1 hours OR 1000 points

X-axis Label HH:mm:ss ☐ as UTC

Y-axis min max

Legend None Interpolate linear

Series Colours

Enabled

info

Search flows

Flows

- Flow 1
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- Global Configuration Nodes

Temperature

Node "890e524ad359097b"

Type ui_chart

show more

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vishnu-smart-farmer.au-syd.mybluemix.net/red/#flow/a524f29b64bd52ec

Node-RED

filter nodes

- switch
- slider
- numeric
- text input
- date picker
- colour picker
- form
- text
- gauge
- chart
- audio out
- notification
- ui control
- template

ject_flow

Flow 3

project_flow

IBM IoT

Soil moisture

Humidity

Temperature

Soil moisture

Humidity

Temperature

info

Search flows

- Flows
 - Flow 1
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 - Flow 3
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- Subflows
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Temperature

Node	"e1505cf6665ae202"
Type	ui_chart

show more

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ENG 11:59 AM

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Node-RED

filter nodes | project_flow | Flow 3 | project_flow | + | - | X

Deploy

network

- mqtt in
- mqtt out
- http in
- http response
- http request
- websocket in
- websocket out
- tcp in
- tcp out
- tcp request
- udp in

Flow 3

Soil moisture

Humidity

Temperature

Soil moisture

Humidity

Temperature

switch

http request

info

Search flows

Flows

- Flow 1
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http request

Node	"44549fb7474799b1"
Type	http request

show more

Activate Windows
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30°C Sunny | ENG | 12:00 PM

IBM | (32) | (32) | IBM- | Passy | IBM- | Appli | N x | IBM \ | An E | New | + | - | X

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Node-RED Deploy

filter nodes project_flow Flow 3 project_flow

common

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

function

- function
- switch

Flow 3 diagram:

```
graph LR; IoT[IBM IoT] --> SM1[Soil moisture]; IoT --> Hum1[Humidity]; IoT --> Temp1[Temperature]; IoT --> Switch[switch]; SM1 --> SM2[Soil moisture]; Hum1 --> Hum2[Humidity]; Temp1 --> Temp2[Temperature]; Switch --> HTTP[http request]; SM2 --> MP[msg.payload]; Hum2 --> MP; Temp2 --> MP; HTTP --> MP;
```

info

Search flows

Flows

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- project_flow

Subflows

Global Configuration Nodes

Flow 3

Flow "a524f29b64bd52ec"

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Node-RED

filter nodes

project_flow

Flow 3

project_flow

info

Search flows

Flows

- Flow 1
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project_flow

Flow

"81b7a6904894488a"

Activate Windows
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The flow diagram for 'project_flow' is as follows:

```
graph LR; IoT[IBM IoT] --> SM[Soil moisture]; IoT --> Hum[Humidity]; IoT --> Temp[Temperature]; SM --> SMOut[Soil moisture]; Hum --> HumOut[Humidity]; Temp --> TempOut[Temperature]; SM --> Switch[switch]; Hum --> Switch; Temp --> Switch; Switch --> HTTP[http request]; HTTP --> Payload1[msg.payload]; HTTP --> Payload2[msg.payload];
```

The flow starts with an IBM IoT node connected to three function nodes: Soil moisture, Humidity, and Temperature. Each function node is connected to a corresponding output node (Soil moisture, Humidity, and Temperature). Additionally, all three function nodes are connected to a switch node. The switch node is connected to an http request node, which then connects to two msg.payload nodes.