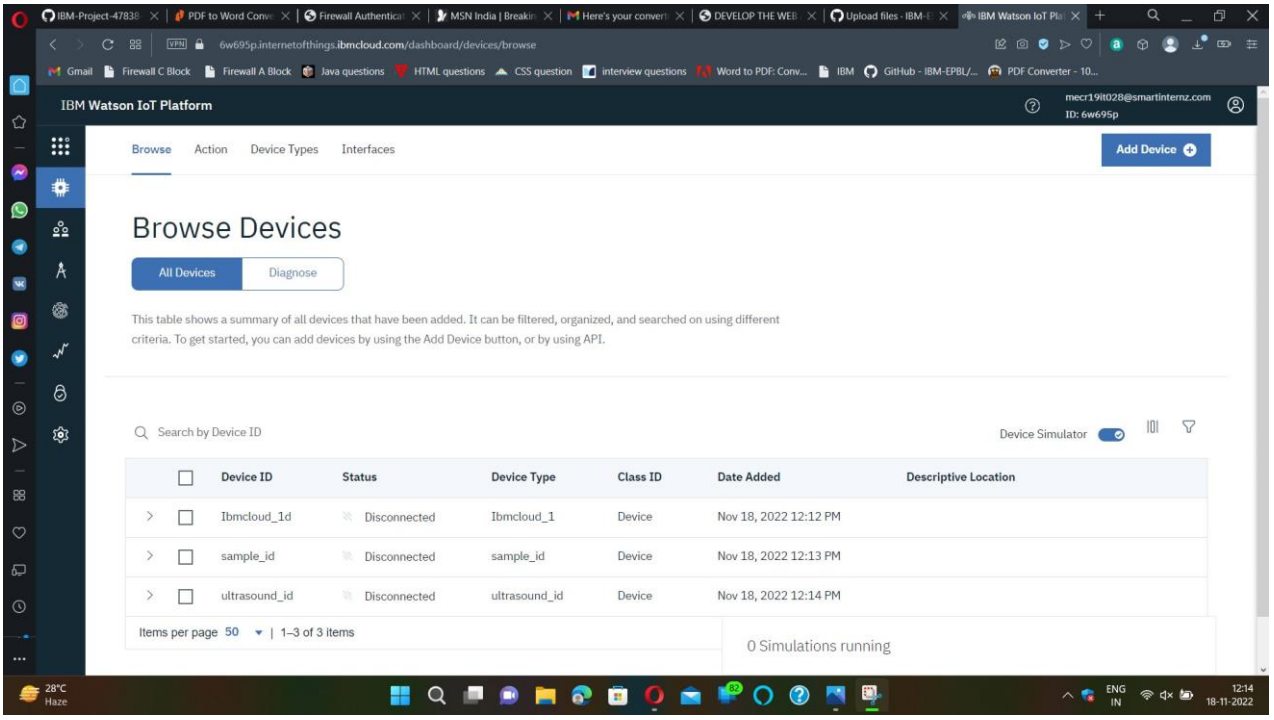
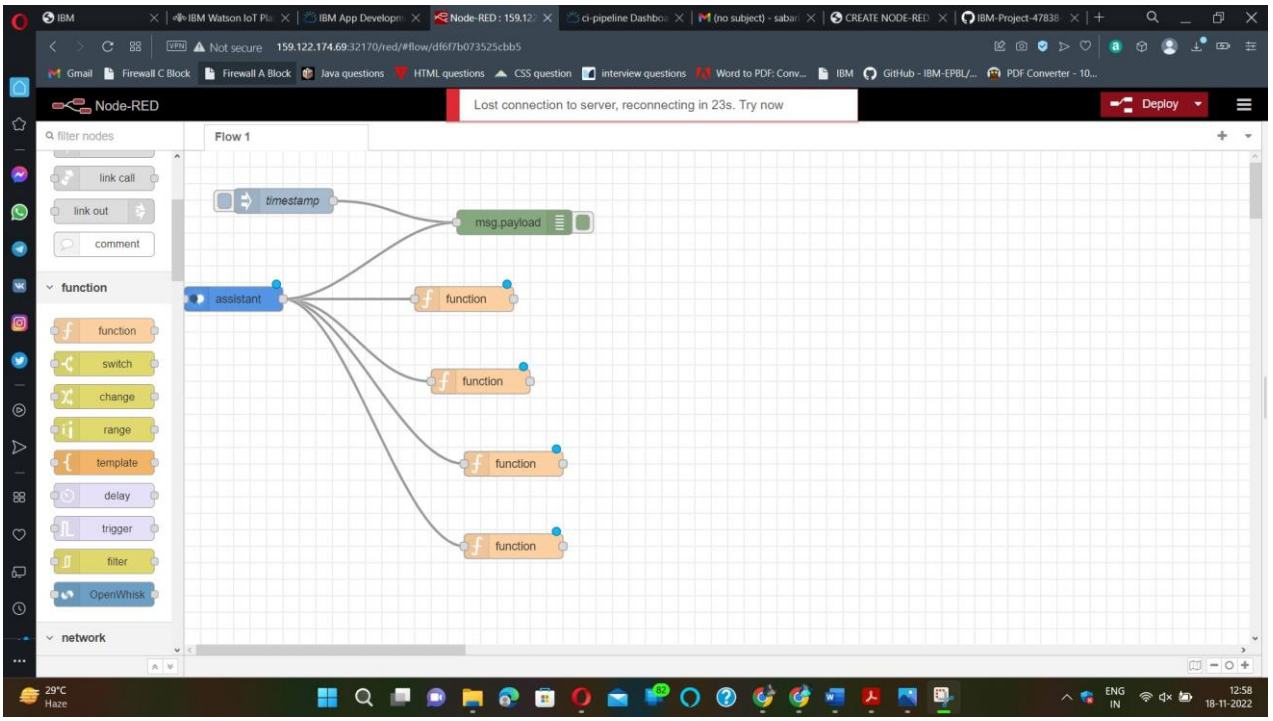
Sprint-2

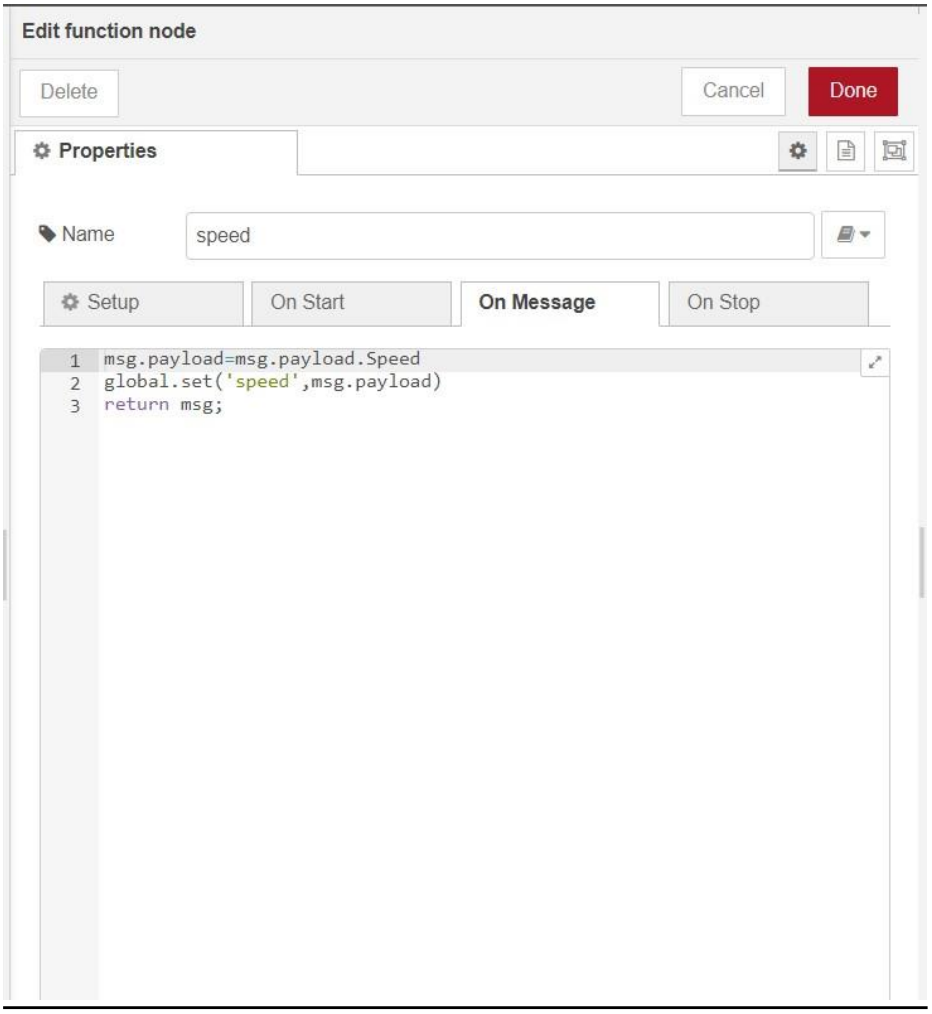
Date	04 November 2022
Team ID	PNT2022TMID19258
Project Name	Signs with smart connectivity for better safety.

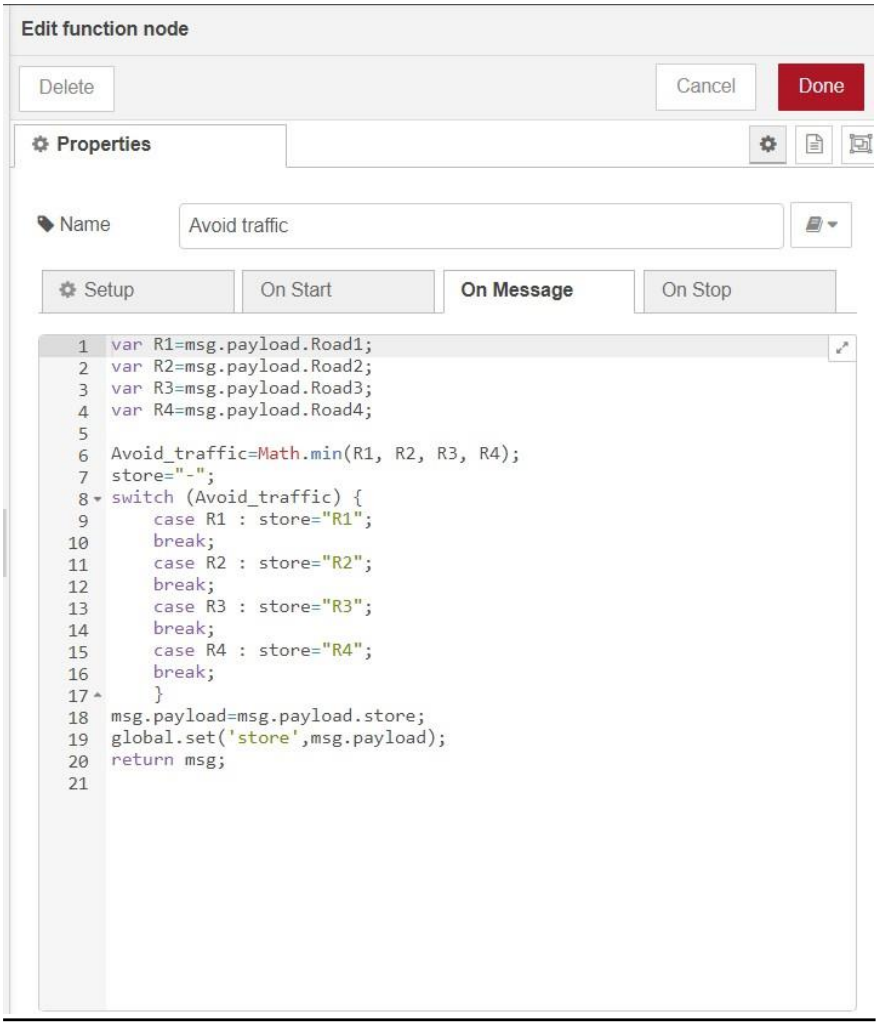
Sending data to cloud:

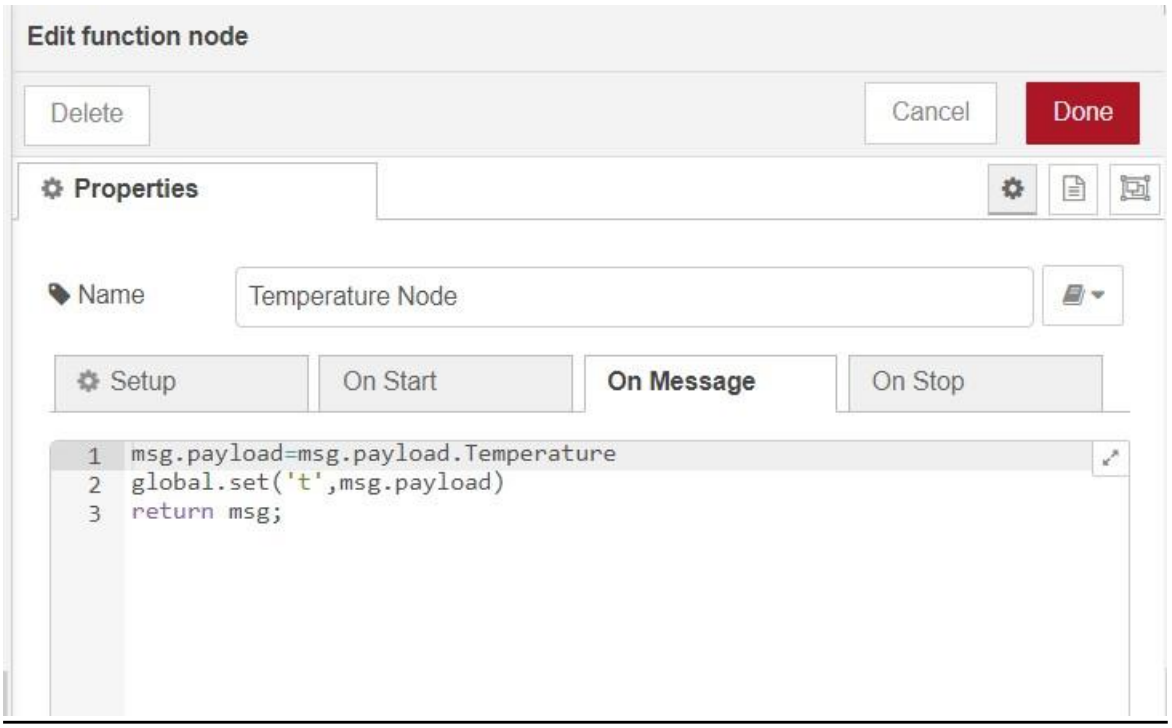


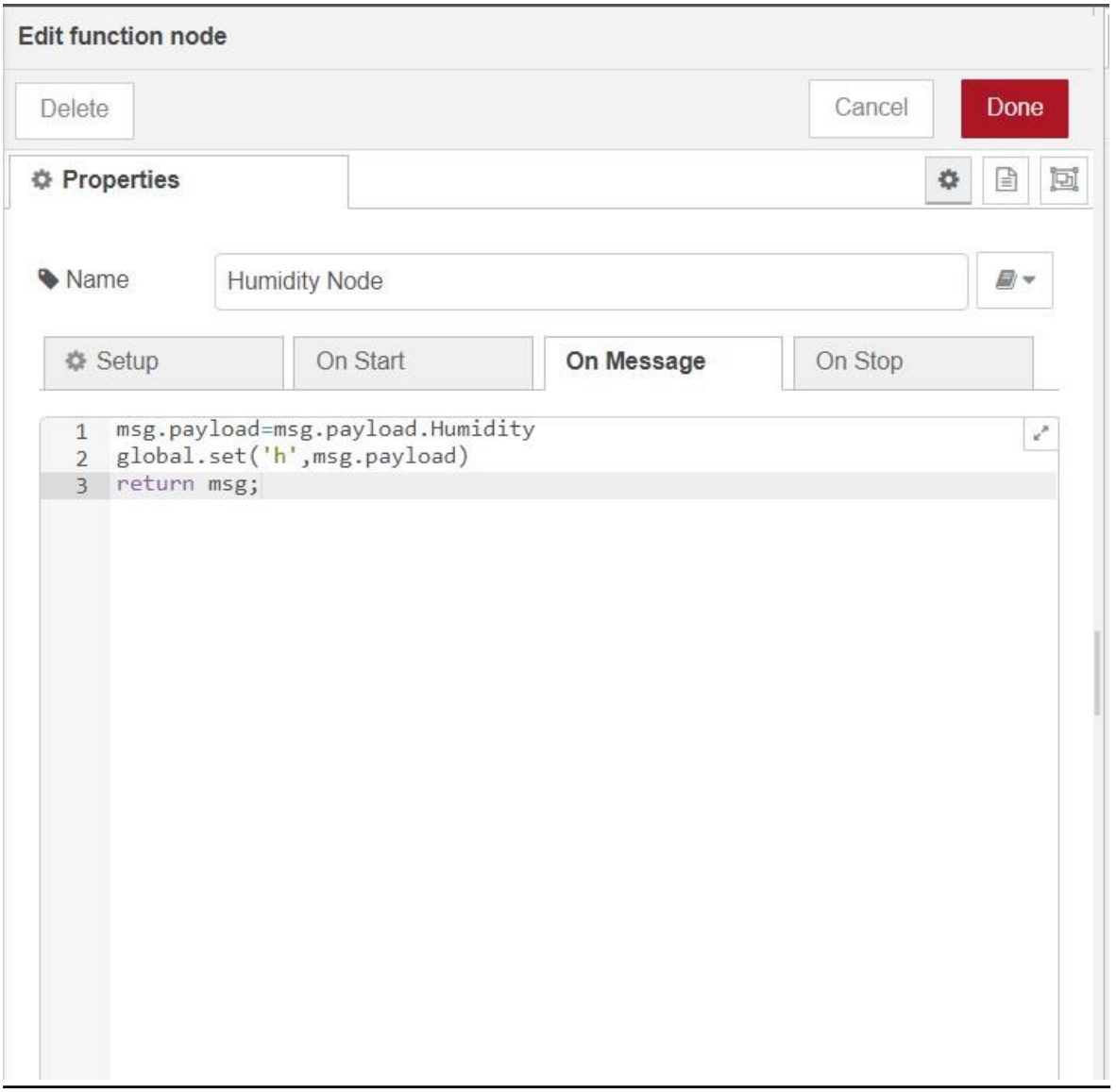
Node red services:

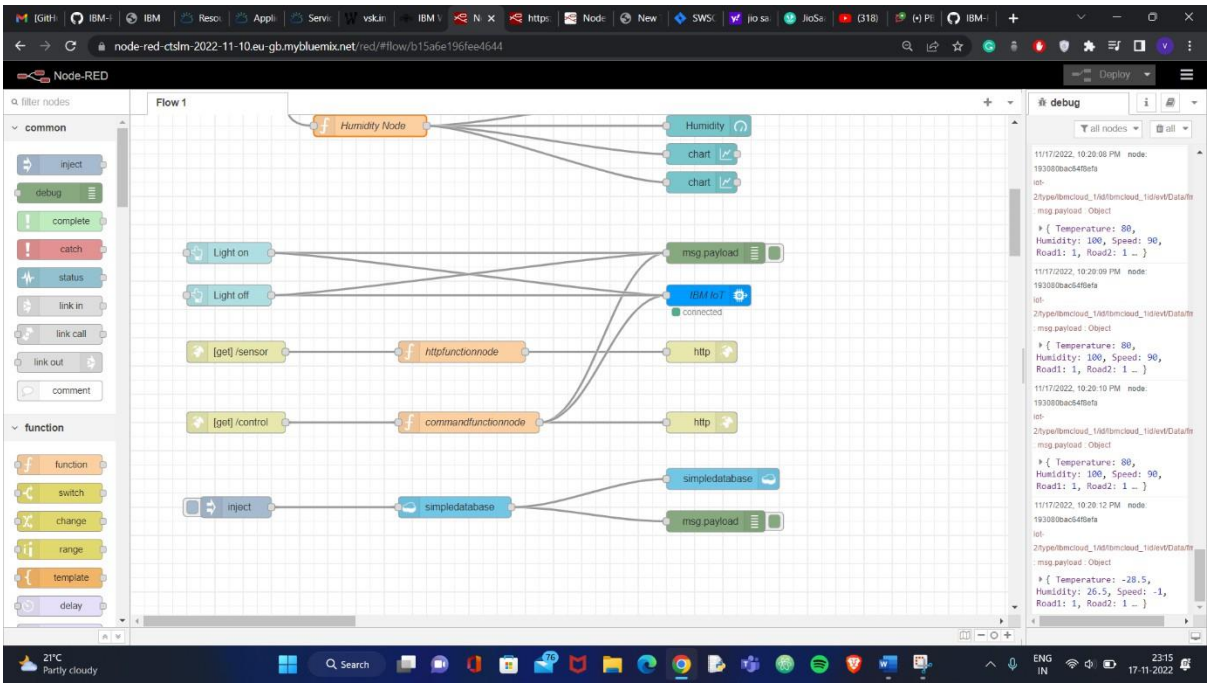


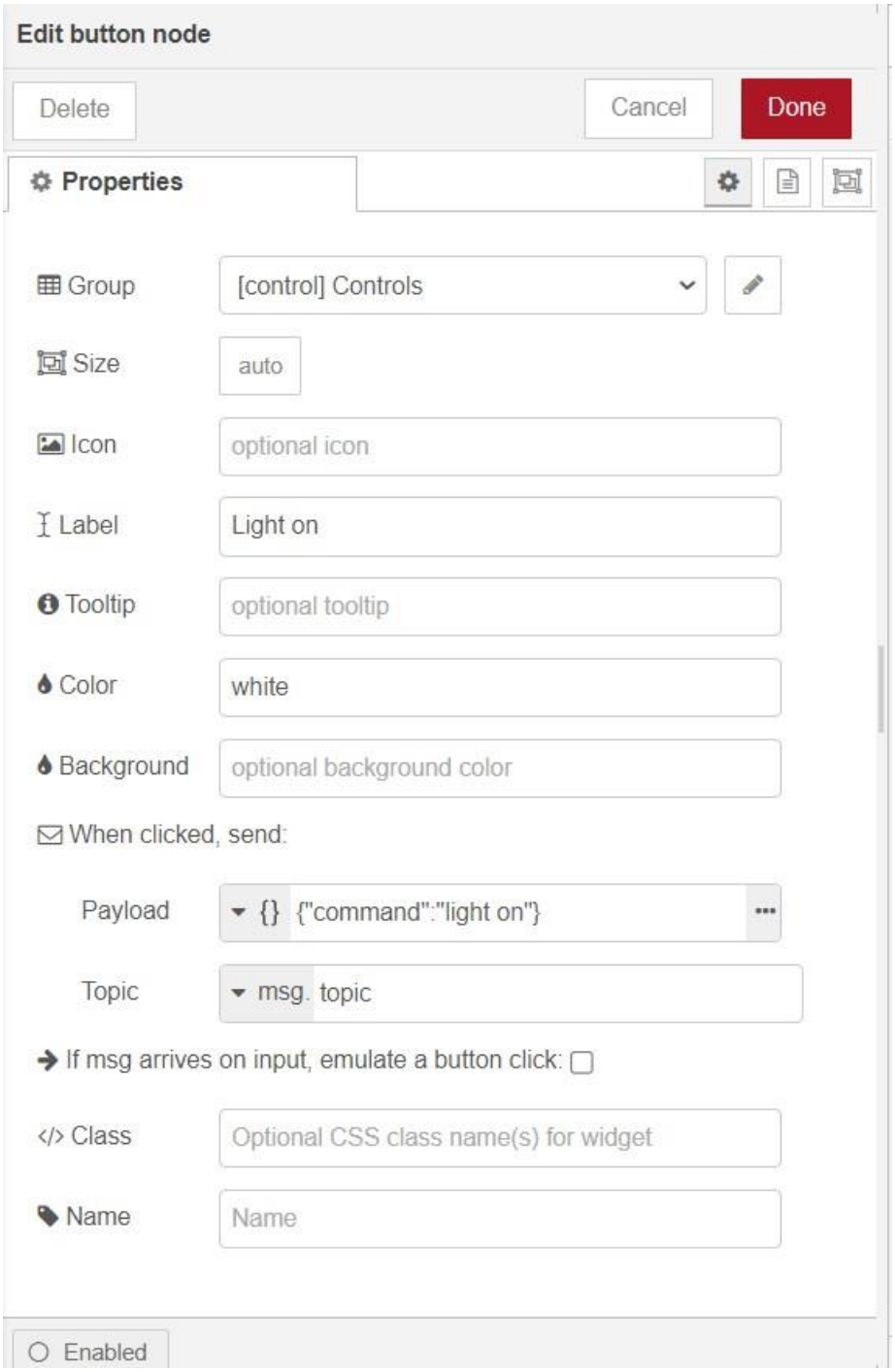

Edit function node
Delete
Cancel
Done
Properties
Name
speed
Setup
On Start
On Message
On Stop
1 msg.payload=msg.payload.Speed
2 global.set('speed',msg.payload)
3 return msg;

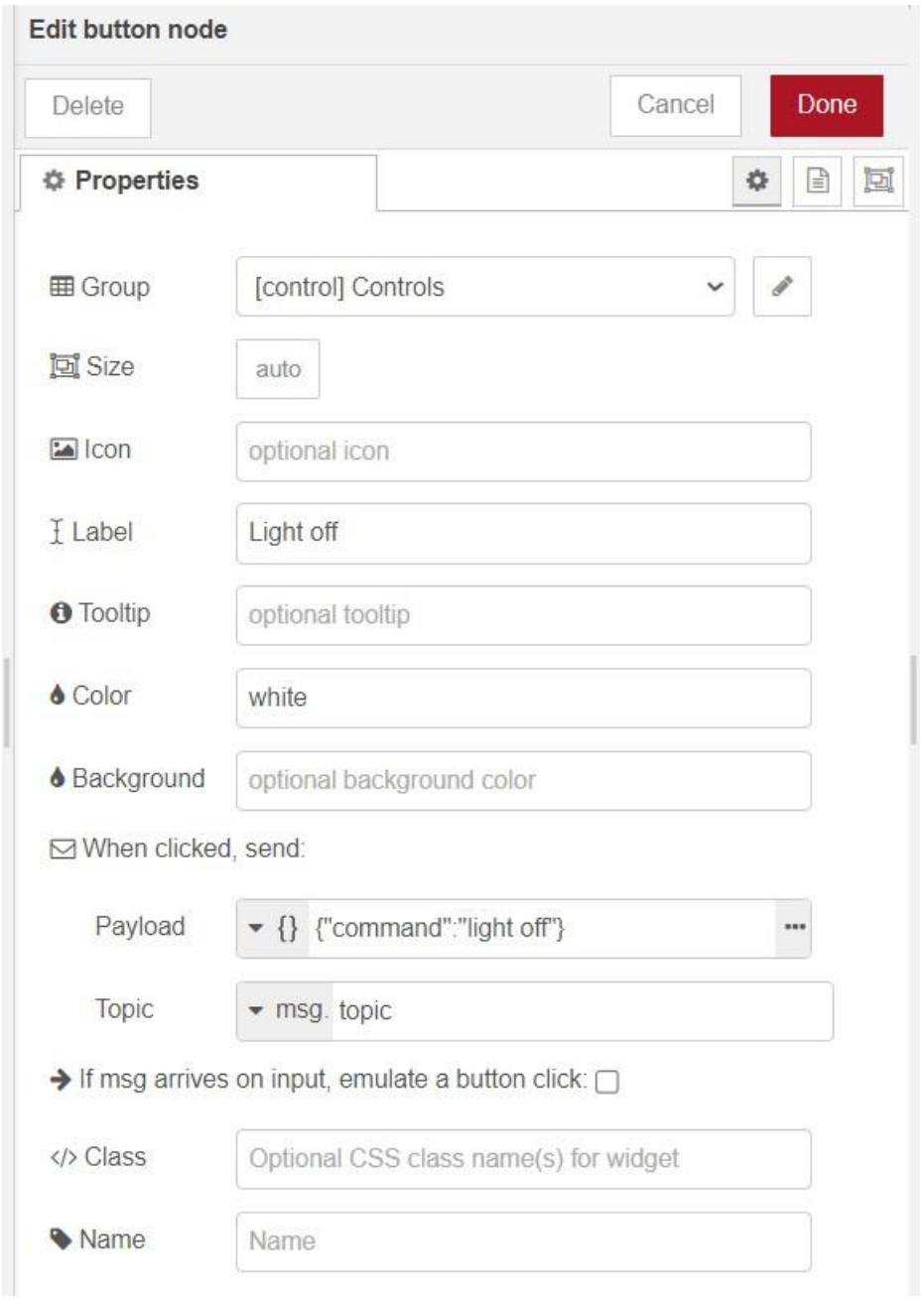

Edit function node
Delete
Cancel
Done
Properties
Name
Avoid traffic
Setup
On Start
On Message
On Stop
var R1=msg.payload.Road1;
var R2=msg.payload.Road2;
var R3=msg.payload.Road3;
var R4=msg.payload.Road4;
Avoid_traffic=Math.min(R1, R2, R3, R4);
store="-";
switch (Avoid_traffic) {
case R1 : store="R1";
break;
case R2 : store="R2";
break;
case R3 : store="R3";
break;
case R4 : store="R4";
break;
}
msg.payload=msg.payload.store;
global.set('store',msg.payload);
return msg;


Edit function node
Delete
Cancel
Done
Properties
Name
Temperature Node
Setup
On Start
On Message
On Stop
msg.payload=msg.payload.Temperature
global.set('t',msg.payload)
return msg;


Edit function node
Delete
Cancel
Done
Properties
Name
Humidity Node
Setup
On Start
On Message
On Stop
1 msg.payload=msg.payload.Humidity
2 global.set('h',msg.payload)
3 return msg;


node-red-ctslm-2022-11-10.eu-gb.mybluemix.net/red/#flow/b15a6e196fee4644
Node-RED
Deploy
Flow 1
Humidity Node
Humidity
chart
chart
Light on
Light off
msg.payload
IBM IoT
connected
[get] /sensor
httpfunctionnode
http
[get] /control
commandfunctionnode
http
inject
simpledatabase
simpledatabase
msg.payload
debug
{ Temperature: 80, Humidity: 100, Speed: 90, Road1: 1, Road2: 1 … }
{ Temperature: 80, Humidity: 100, Speed: 90, Road1: 1, Road2: 1 … }
{ Temperature: 80, Humidity: 100, Speed: 90, Road1: 1, Road2: 1 … }
{ Temperature: -28.5, Humidity: 26.5, Speed: -1, Road1: 1, Road2: 1 … }
common
function
21°C
Partly cloudy
Search
ENG
IN
2315
17-11-2022


Edit button node
Delete
Cancel
Done
Properties
Group
[control] Controls
Size
auto
Icon
optional icon
Label
Light on
Tooltip
optional tooltip
Color
white
Background
optional background color
When clicked, send:
Payload
{}
{"command":"light on"}
Topic
msg.
topic
If msg arrives on input, emulate a button click:
Class
Optional CSS class name(s) for widget
Name
Name
Enabled


Edit button node
Delete
Cancel
Done
Properties
Group
[control] Controls
Size
auto
Icon
optional icon
Label
Light off
Tooltip
optional tooltip
Color
white
Background
optional background color
When clicked, send:
Payload
{}
{"command":"light off"}
Topic
msg.
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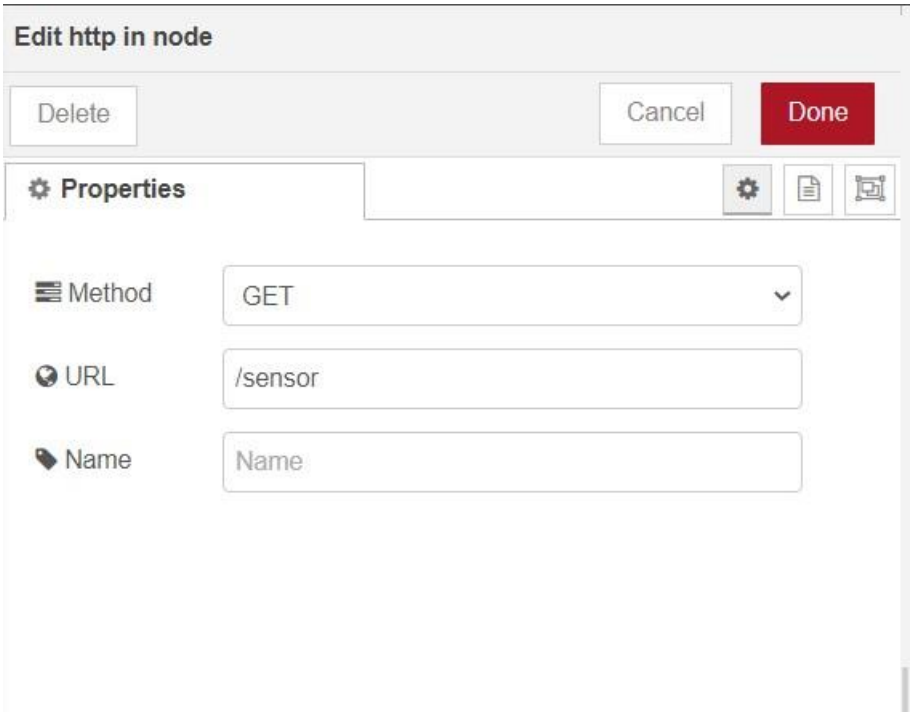
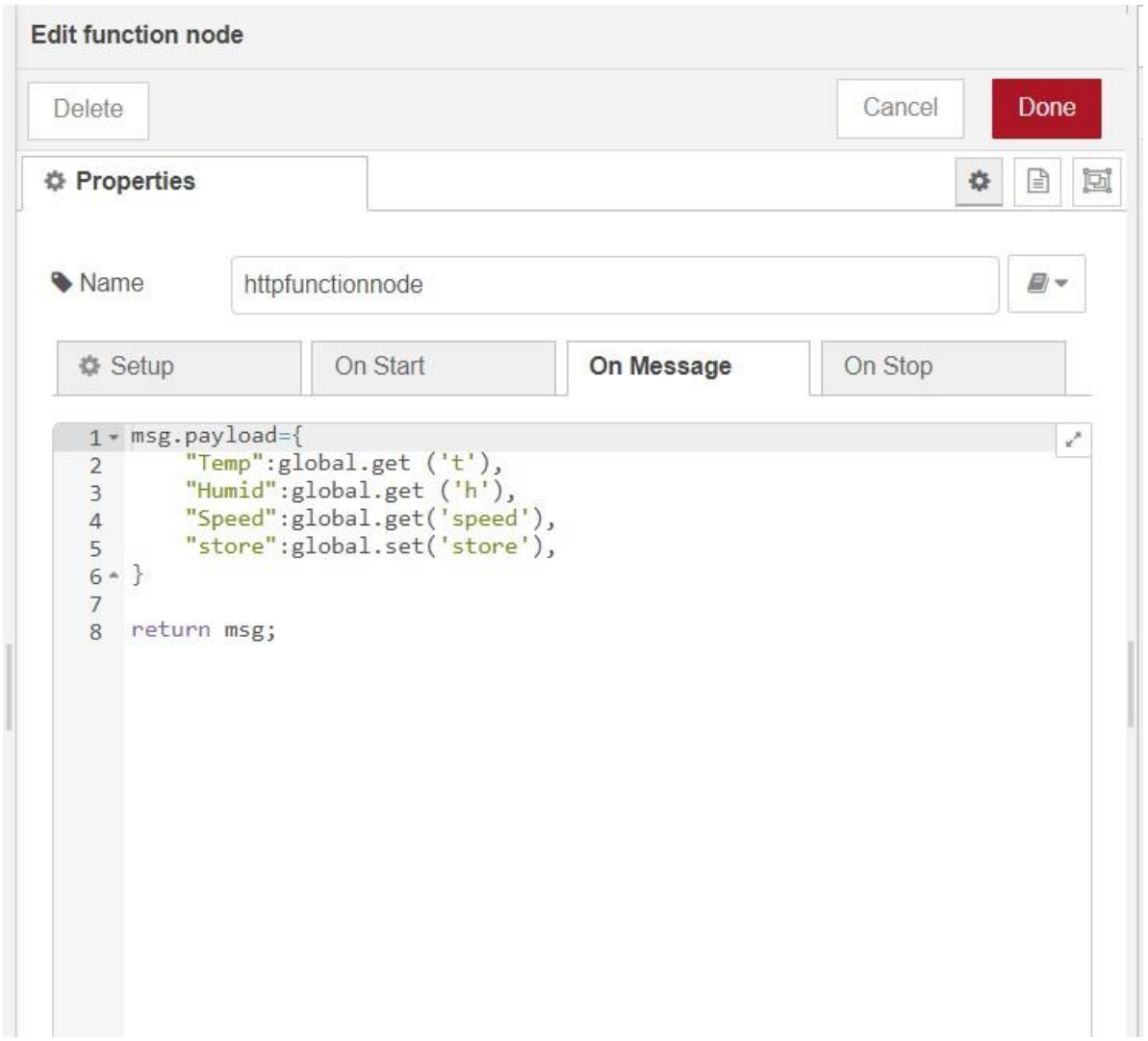
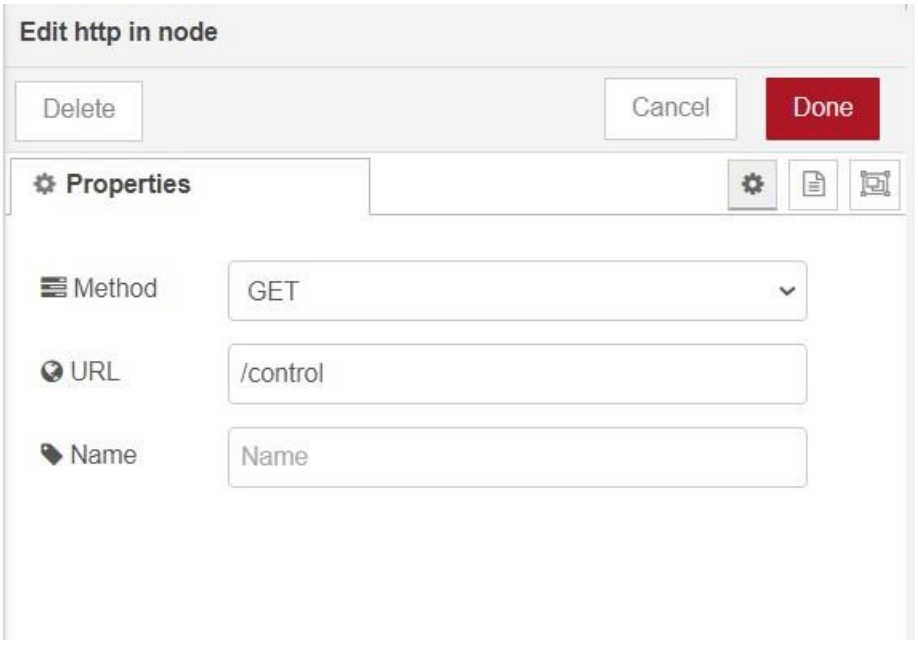
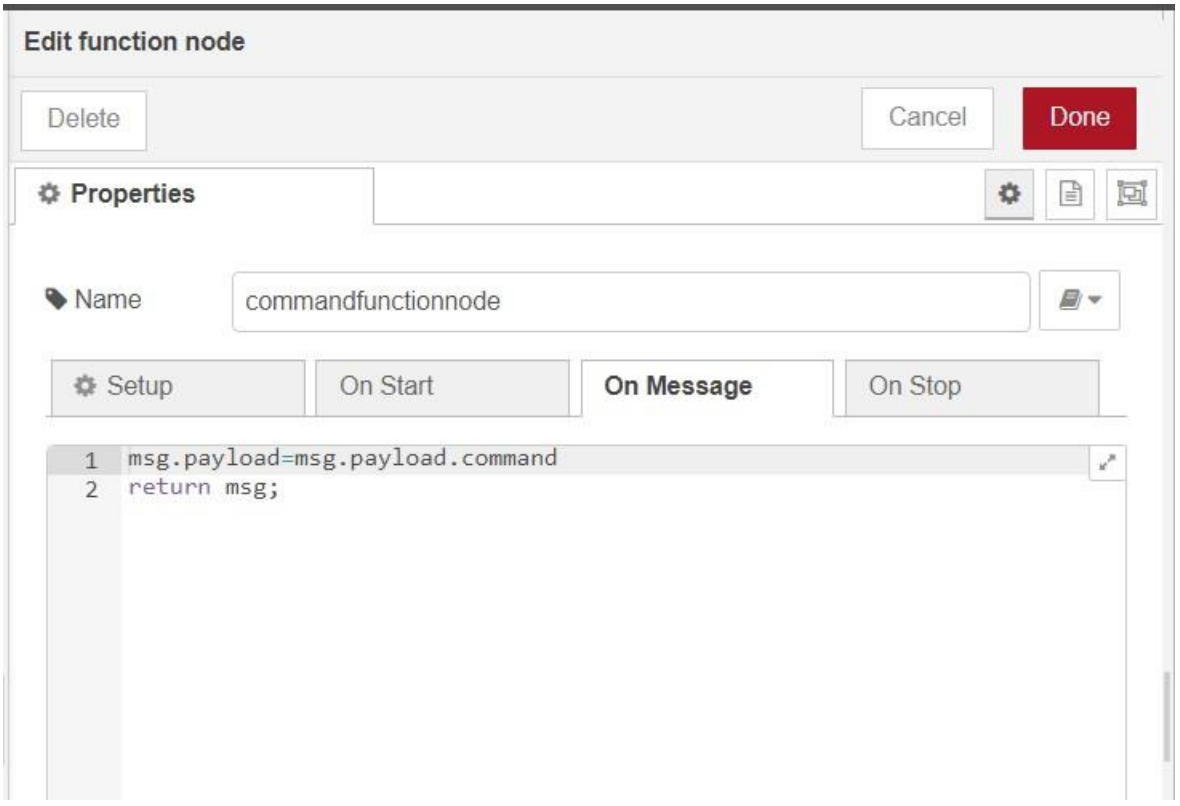
If msg arrives on input, emulate a button click:
Class
Optional CSS class name(s) for widget
Name
Name


Edit http in node
Delete
Cancel
Done
Properties
Method
GET
URL
/sensor
Name
Name


Edit function node
Delete
Cancel
Done
Properties
Name
httpfunctionnode
Setup
On Start
On Message
On Stop
1 msg.payload={
2 "Temp":global.get ('t'),
3 "Humid":global.get ('h'),
4 "Speed":global.get('speed'),
5 "store":global.set('store'),
6 }
7
8 return msg;


Edit http in node
Delete
Cancel
Done
Properties
Method
GET
URL
/control
Name
Name


Edit function node
Delete
Cancel
Done
Properties
Name
commandfunctionnode
Setup
On Start
On Message
On Stop
1 msg.payload=msg.payload.command
2 return msg;