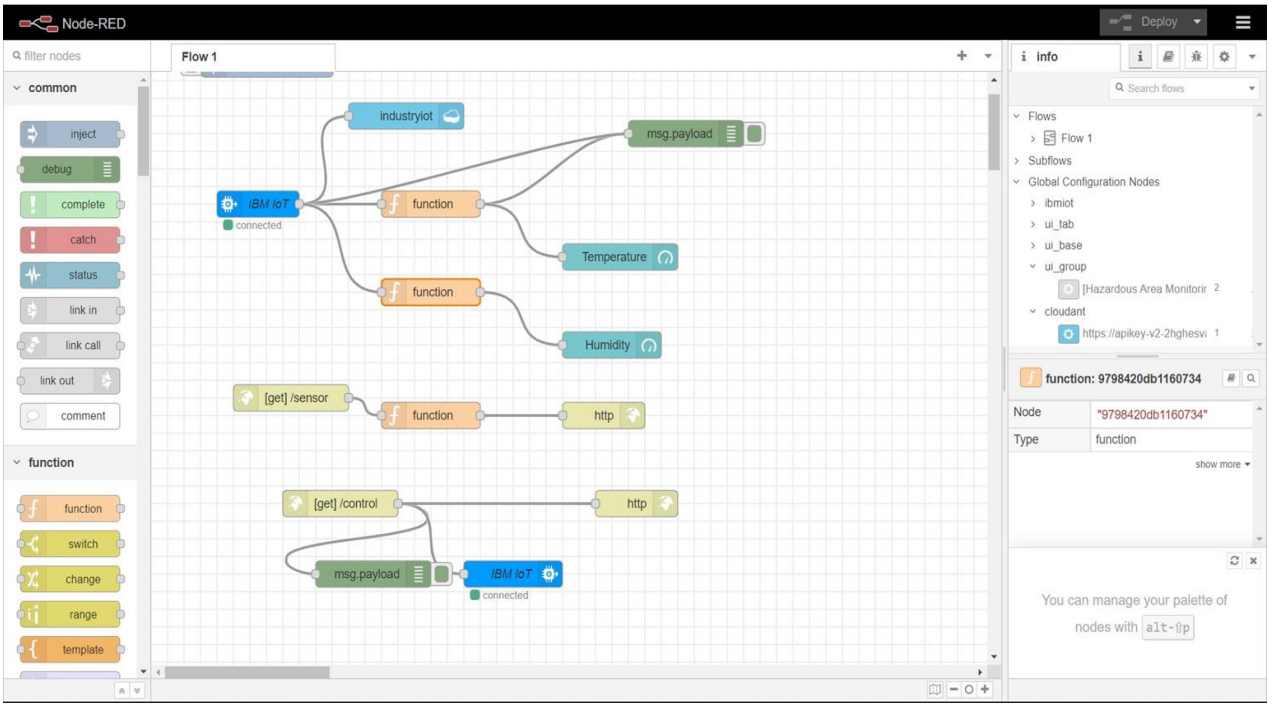
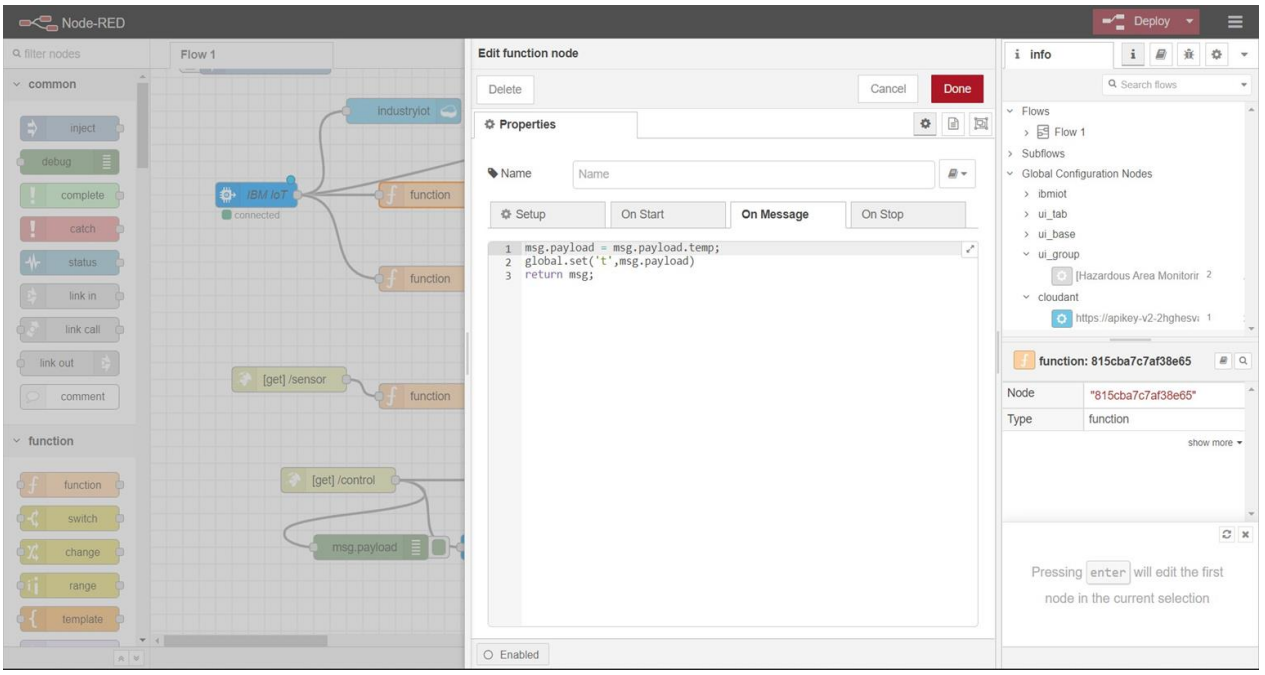
Develop The Web Application Using Node-RED

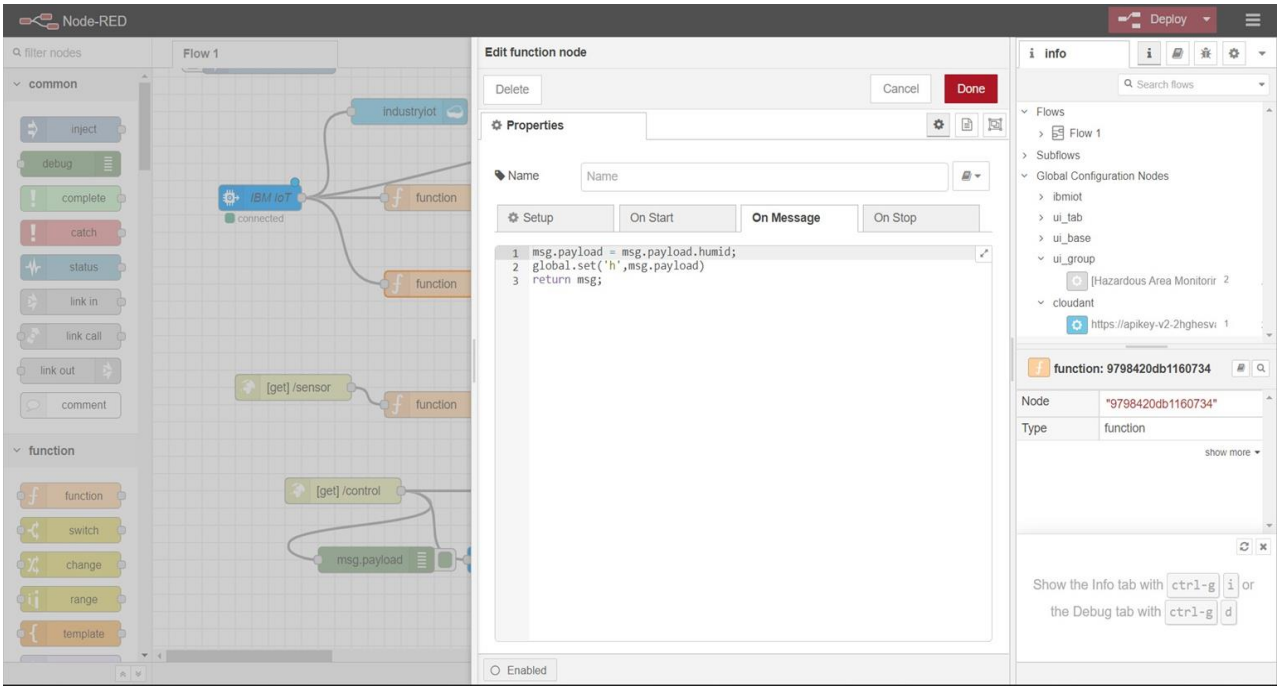
Date	10 November 2022
Team Id	PNT2022TMID10955
Title	Hazardous Area Monitoring for Industrial Plant using IoT

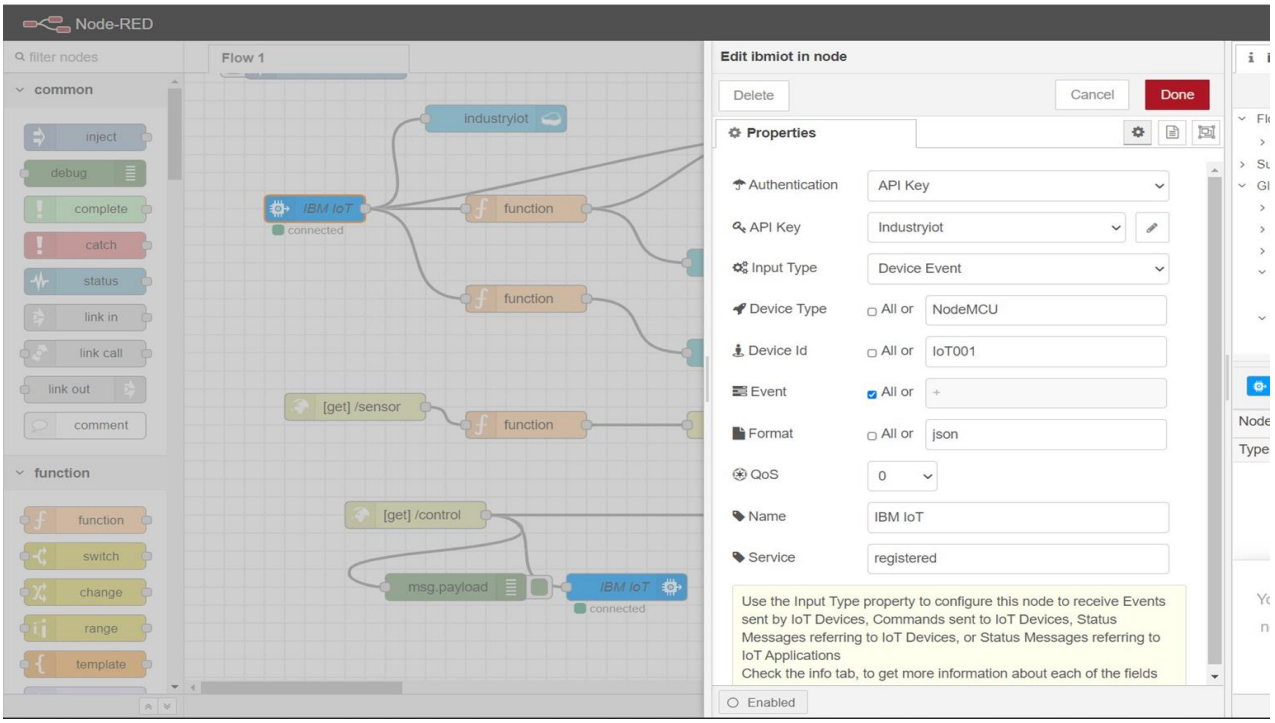
Node red flow

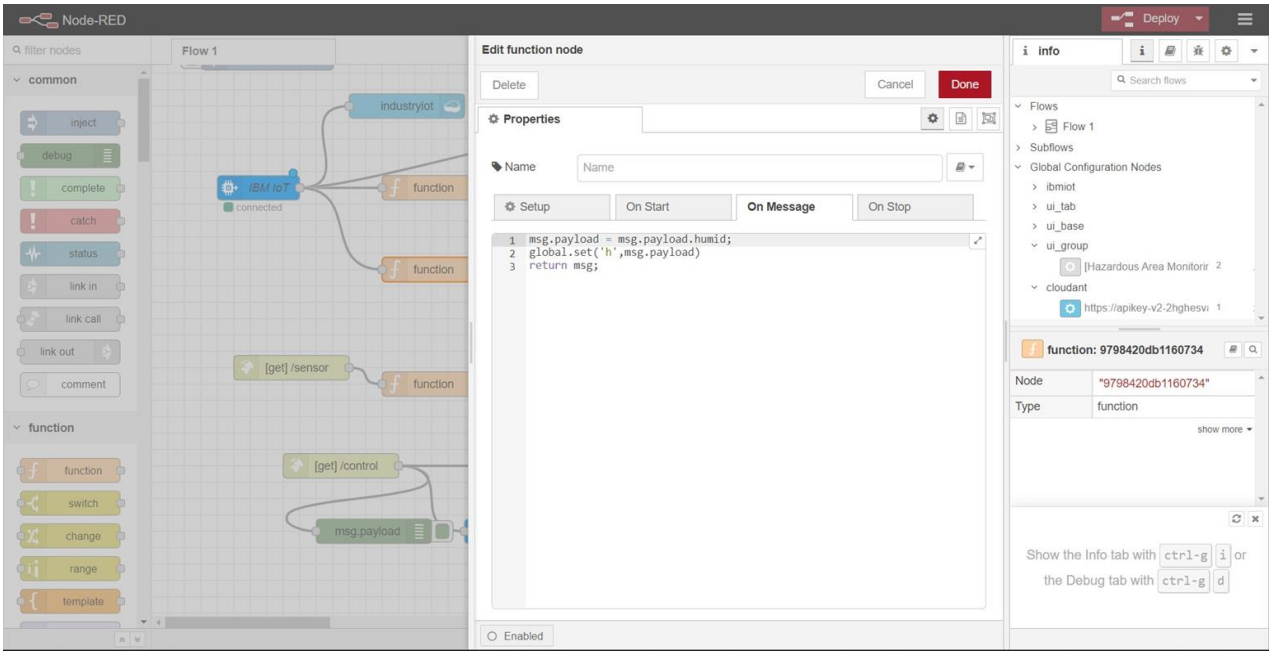


Function blocks






Node-RED
filter nodes
Flow 1
common
inject
debug
complete
catch
status
link in
link call
link out
comment
function
function
switch
change
range
template
industryiot
IBM IoT
connected
function
function
[get] /sensor
function
[get] /control
msg.payload
IBM IoT
connected
Edit ibmiot in node
Delete
Cancel
Done
Properties
Authentication
API Key
API Key
Industryiot
Input Type
Device Event
Device Type
All or
NodeMCU
Device Id
All or
IoT001
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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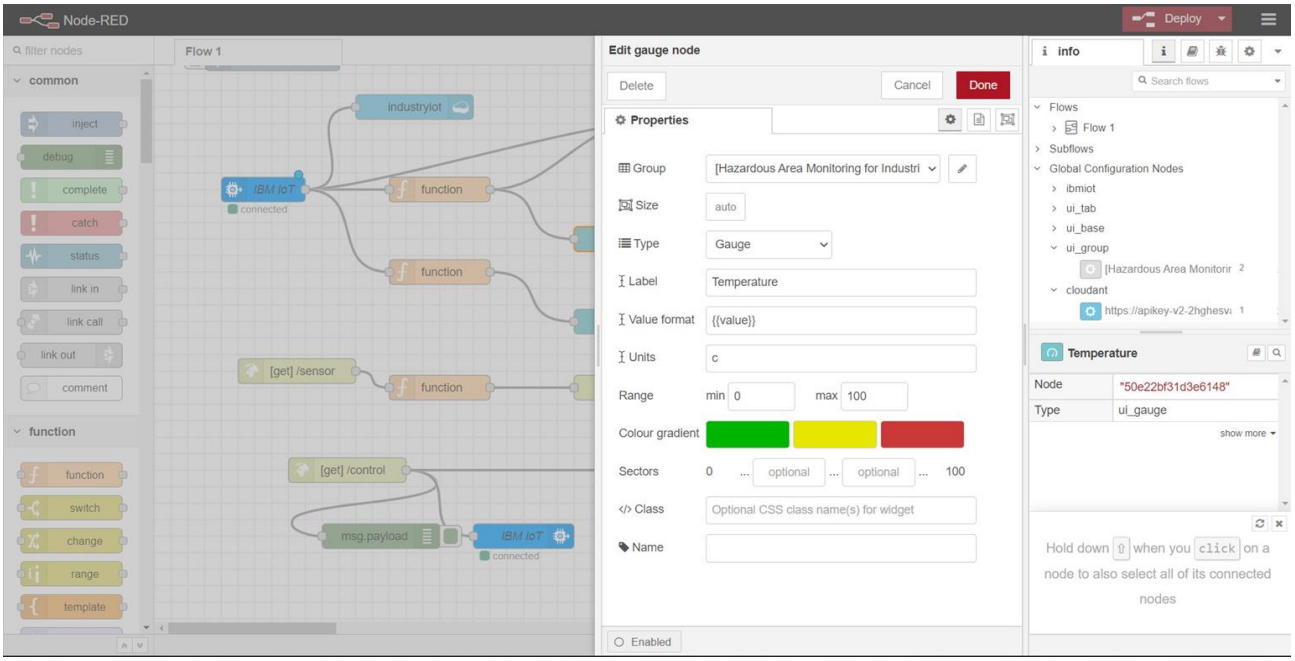
industryiot
IBM IoT
connected
function
function
[get] /sensor
function
[get] /control
msg.payload
Edit function node
Delete
Cancel
Done
Properties
Name
Name
Setup
On Start
On Message
On Stop
1 msg.payload = msg.payload.humid;
2 global.set('h',msg.payload)
3 return msg;
Enabled
info
Search flows
Flows
Flow 1
Subflows
Global Configuration Nodes
ibmiot
ui_tab
ui_base
ui_group
[Hazardous Area Monitorir 2
cloudant
https://apikey-v2-2hghesv 1
function: 9798420db1160734
Node
"9798420db1160734"
Type
function
show more
Show the Info tab with ctrl-g i or
the Debug tab with ctrl-g d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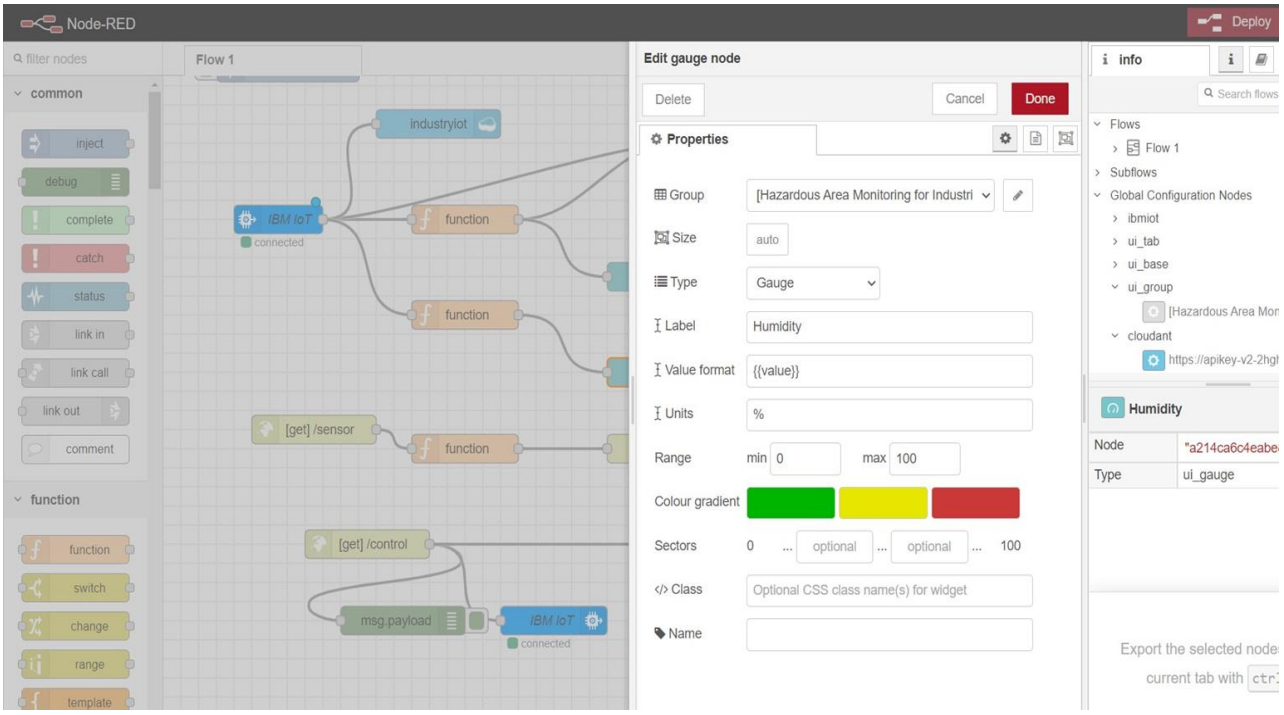
function
function
[get] /sensor
function
[get] /control
msg.payload
IBM IoT
connected
Edit gauge node
Delete
Cancel
Done
Properties
Group
[Hazardous Area Monitoring for Industri
Size
auto
Type
Gauge
Label
Temperature
Value format
{{value}}
Units
c
Range
min 0
max 100
Colour gradient
Sectors
0 ... optional ... optional ... 100
Class
Optional CSS class name(s) for widget
Name
Enabled
info
Search flows
Flows
Flow 1
Subflows
Global Configuration Nodes
ibmiot
ui_tab
ui_base
ui_group
[Hazardous Area Monitorir 2
cloudant
https://apikey-v2-2hghesv 1
Temperature
Node
"50e22bf31d3e6148"
Type
ui_gauge
show more
Hold down ⇧ when you click on a node to also select all of its connected nodes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Size
auto
Type
Gauge
Label
Humidity
Value format
{{value}}
Units
%
Range
min 0
max 100
Colour gradient
Sectors
0 ... optional ... optional ... 100
Class
Optional CSS class name(s) for widget
Name
info
Search flows
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Subflows
Global Configuration Nodes
ibmiot
ui_tab
ui_base
ui_group
[Hazardous Area Mon
cloudant
https://apikey-v2-2hgl
Humidity
Node
"a214ca6c4eabe
Type
ui_gauge
Export the selected node
current tab with ctr