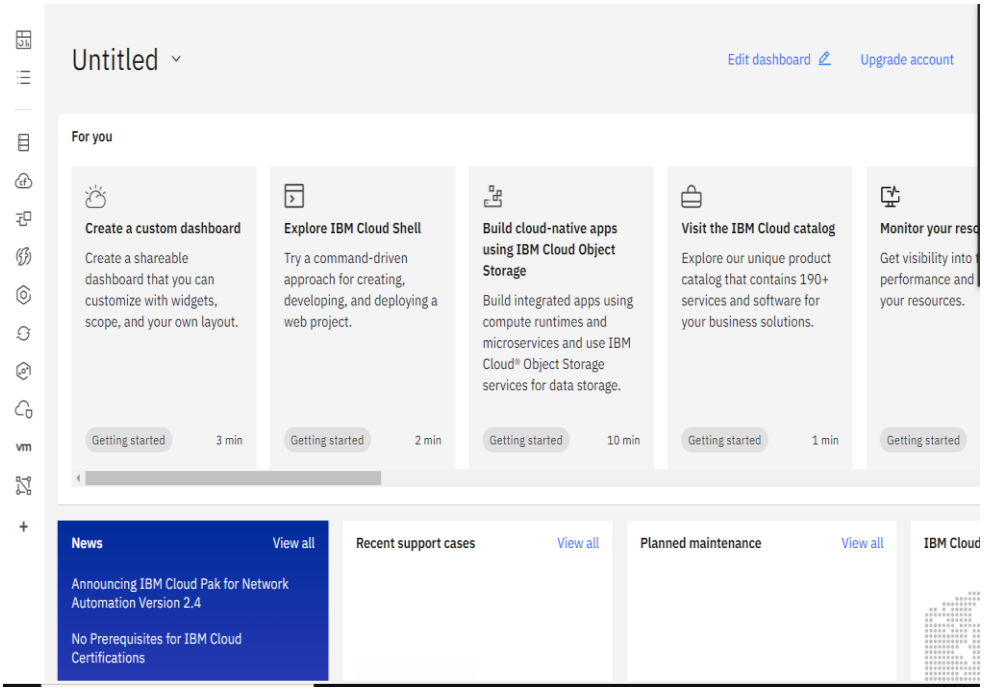
SPRINT-2

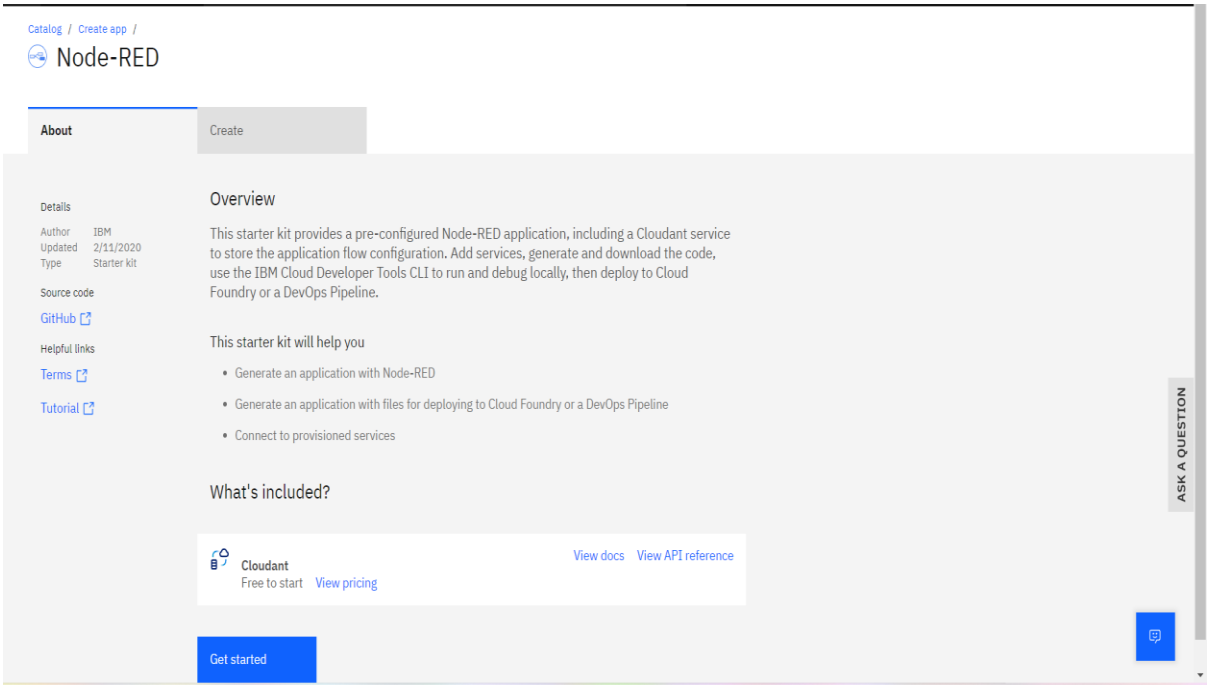
Date	05 November 2022
Team ID	PNT2022TMID05167
Project Name	SMART SOLUTIONS FOR RAILWAYS

CREATING NODE-RED IN IBM CLOUD

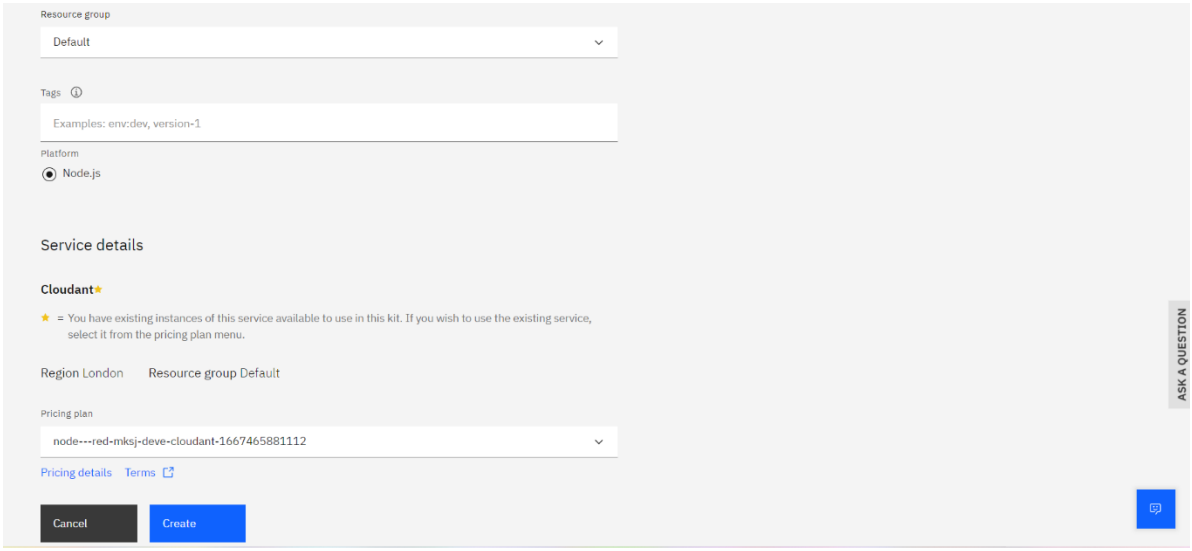
STEP 1: Open ibm cloud:



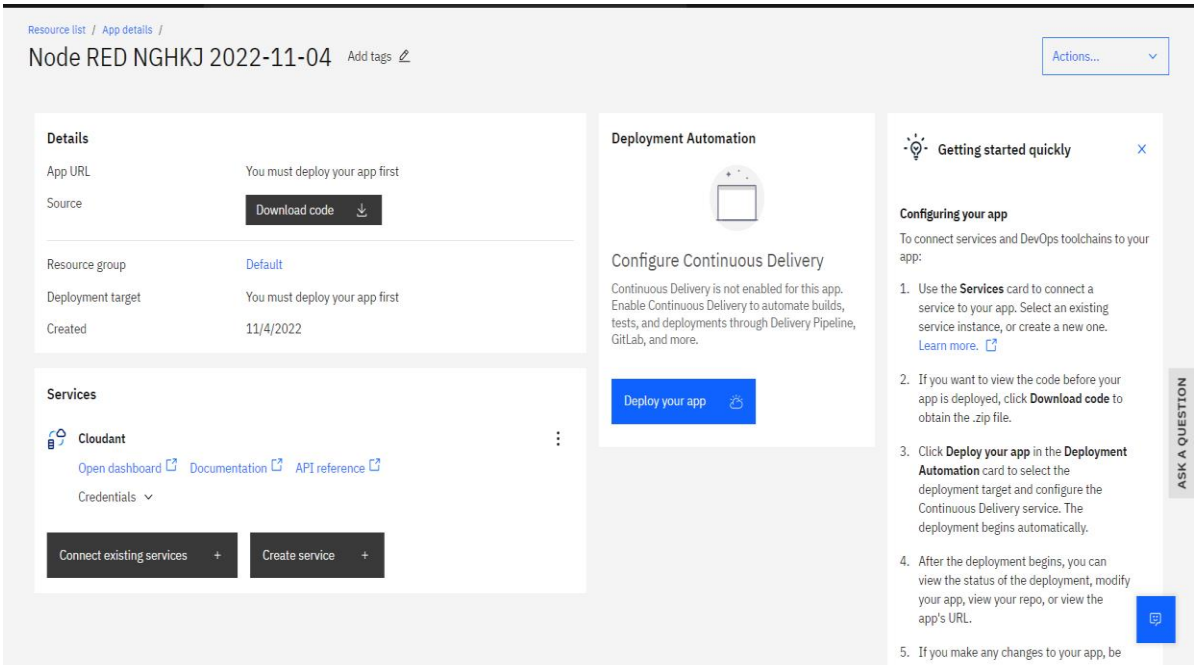
STEP 2: Go to catalog and search for node red app and open it:



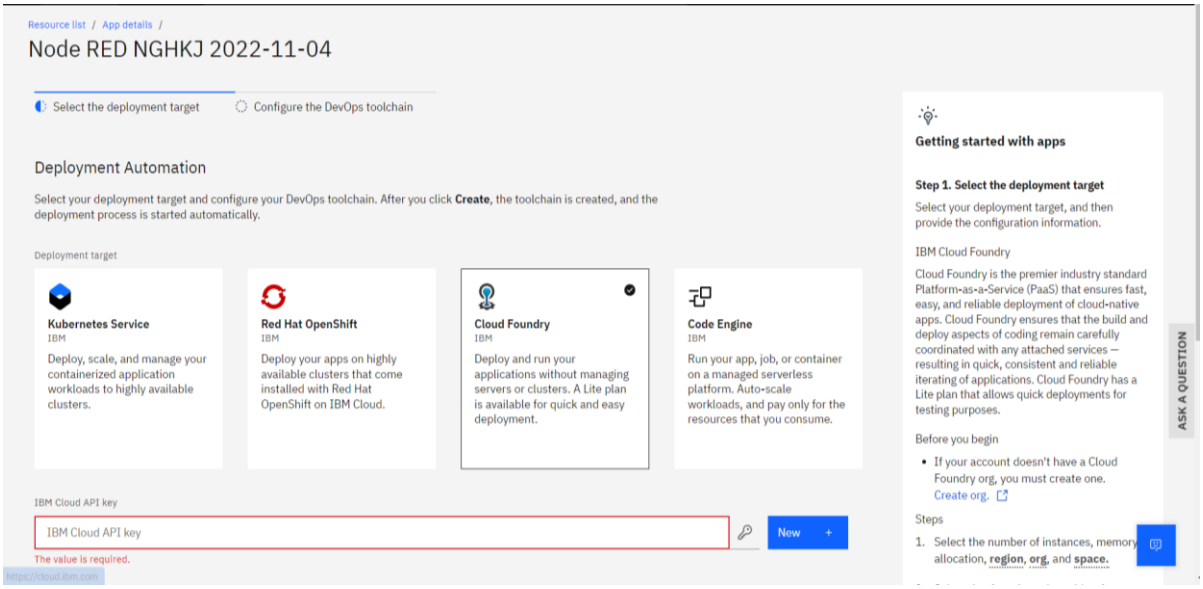
STEP 3: Enter the app name, location and select the plan and click on create.:



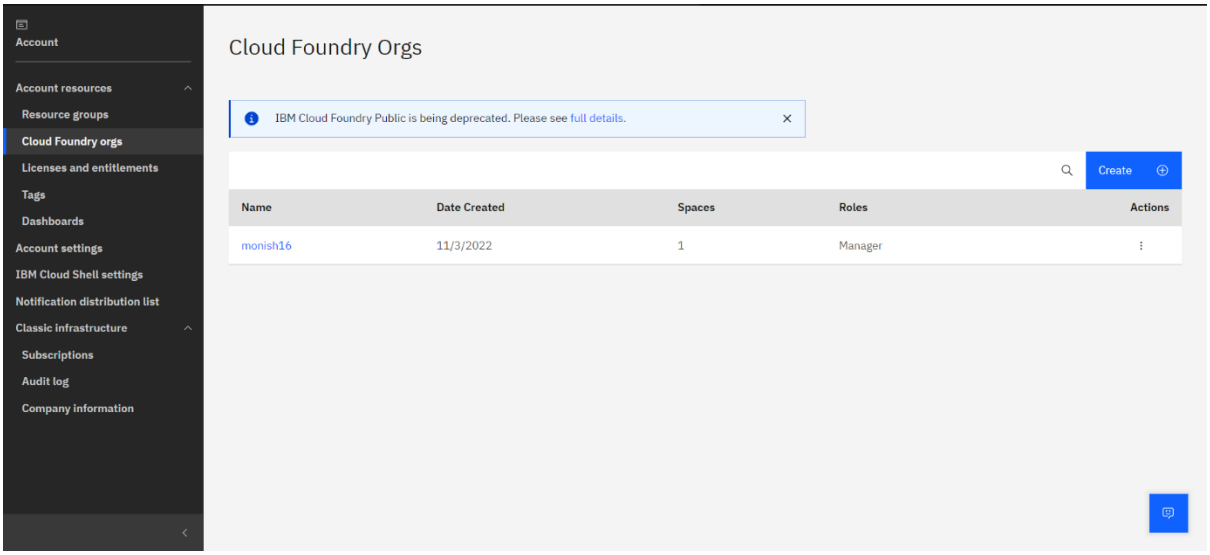
STEP 4:click on deploy your app button:

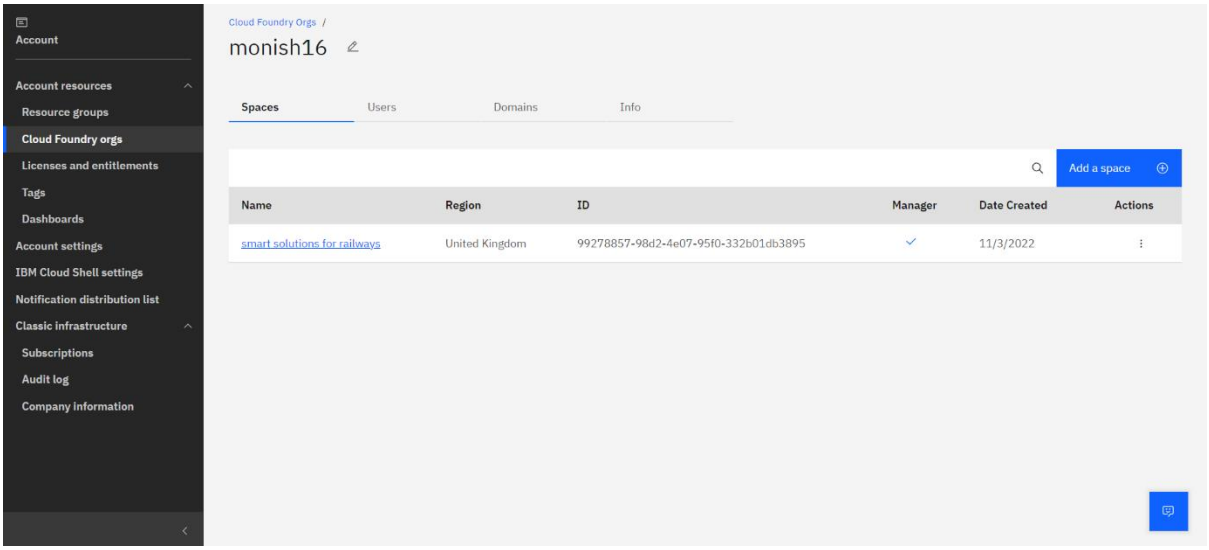


STEP 5: In deployment automation select cloud foundry and click on create.org:

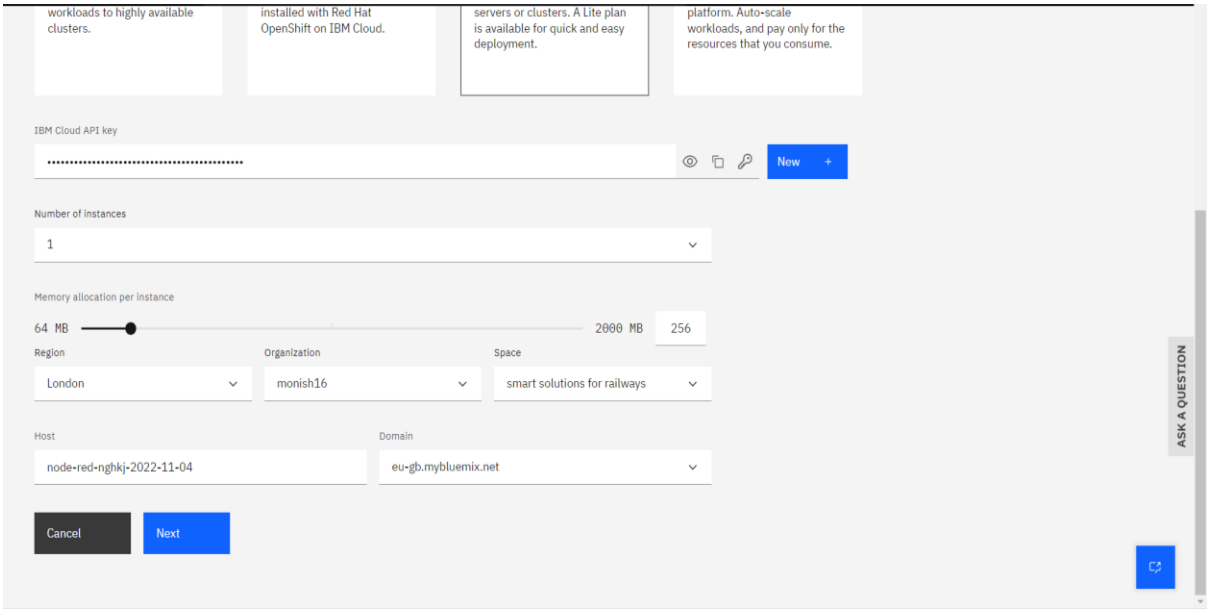


STEP 6: click on create button and enter the name and create a space:

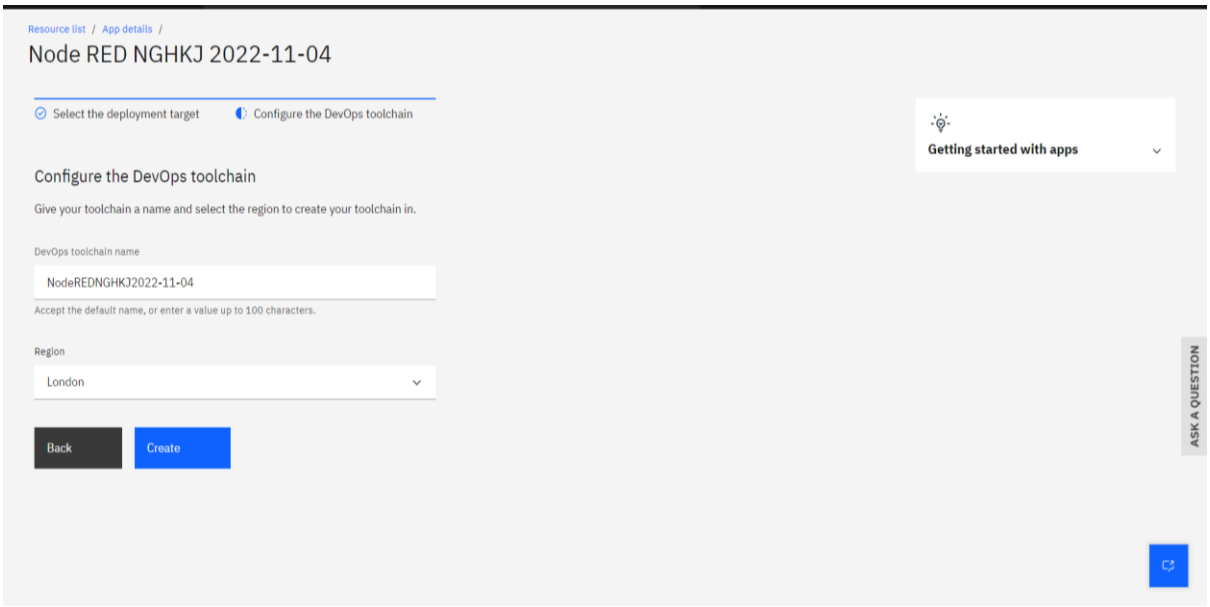




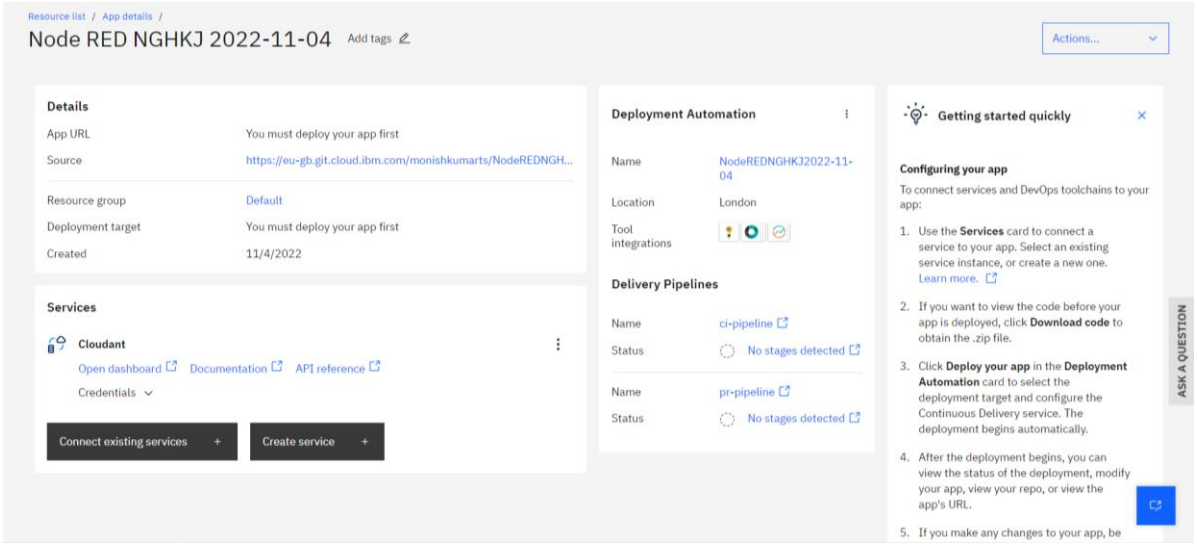
STEP 7: In app development click new on api key and select region and click next:



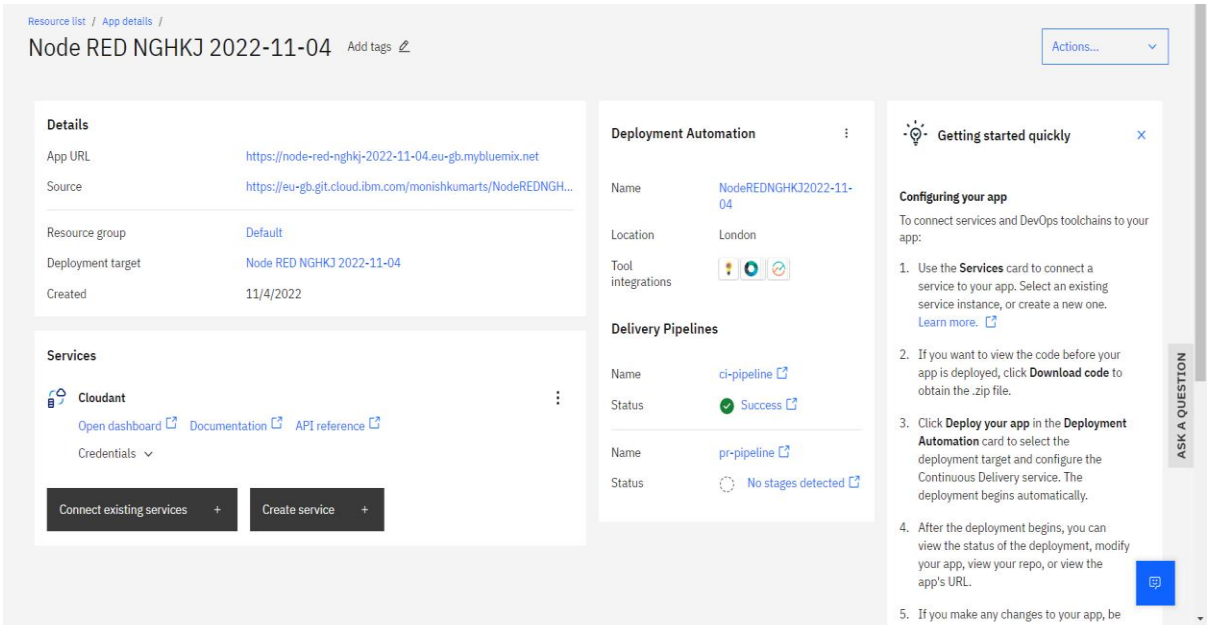
STEP 8:select the region and click create:



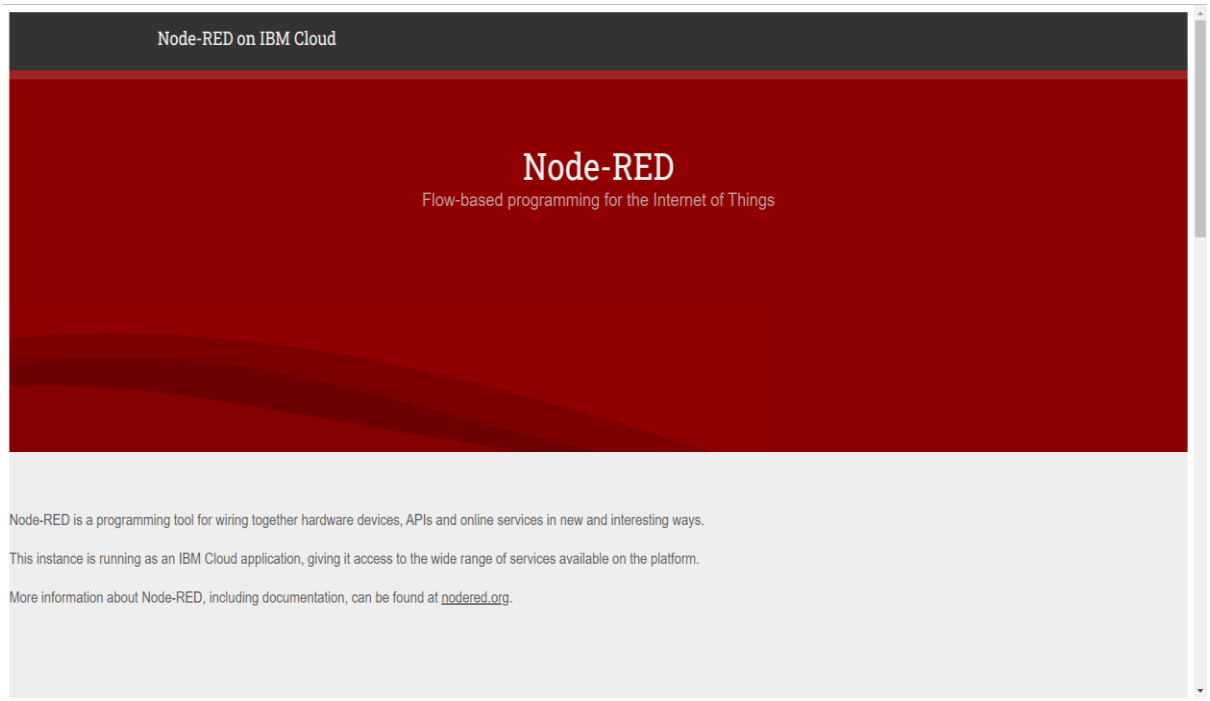
STEP 9: Wait till you get the success in ci-pipeline and app URL is generated:



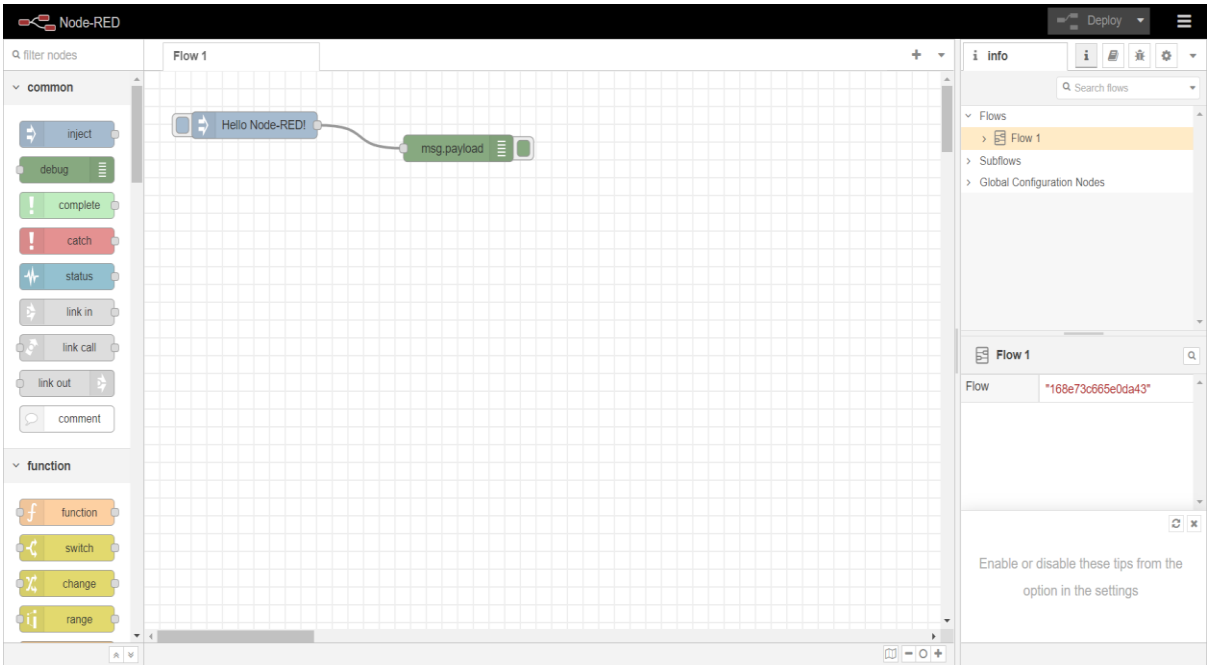
STEP 10: Now click on the generated APP URL:



STEP 11 : You will redirected to your node-red on ibm cloud page:

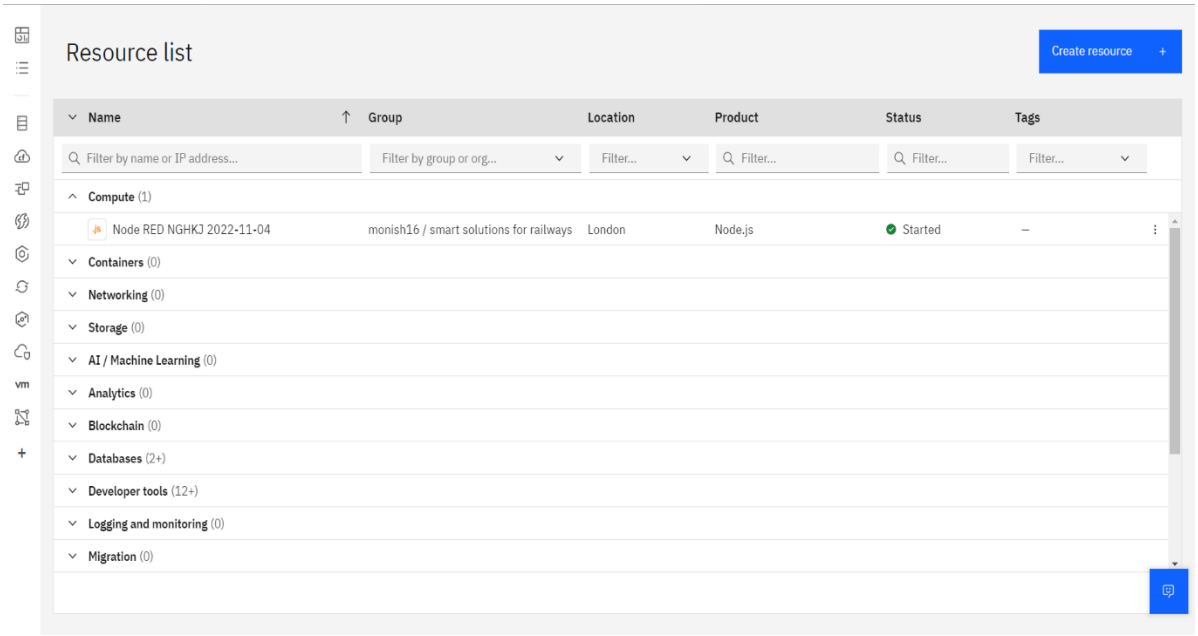


STEP 12: Click on node-red flow editor and you will be redirected to your node-red workspace:

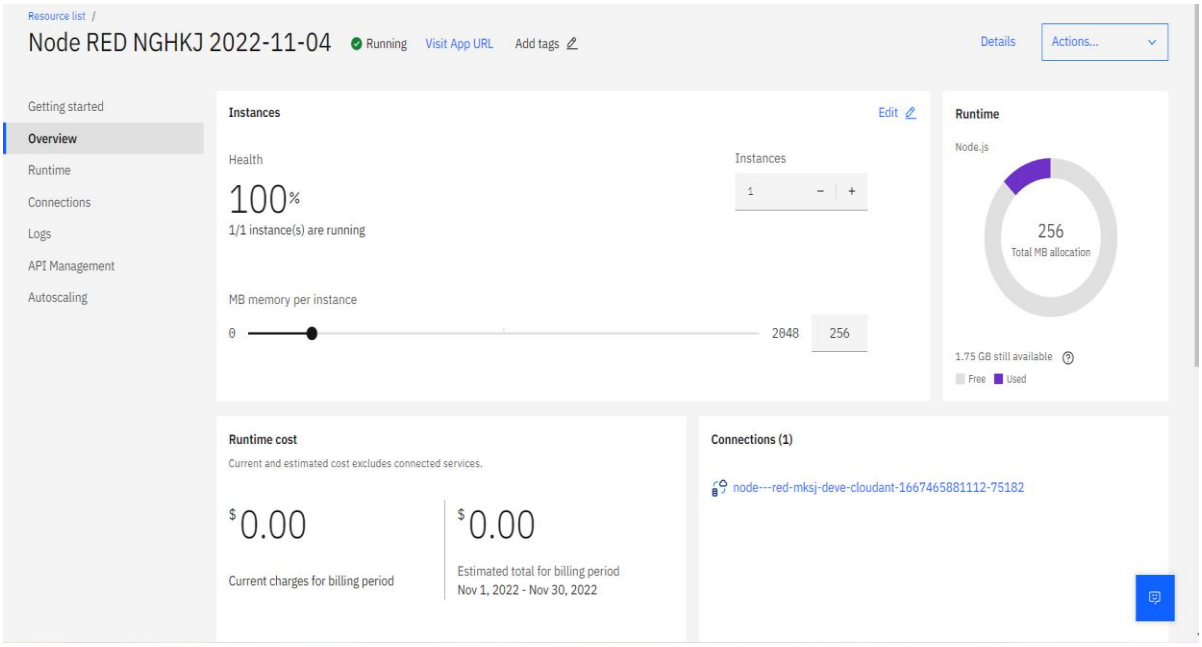


DIRECTING TO CREATED NODE-RED WORKSPACE

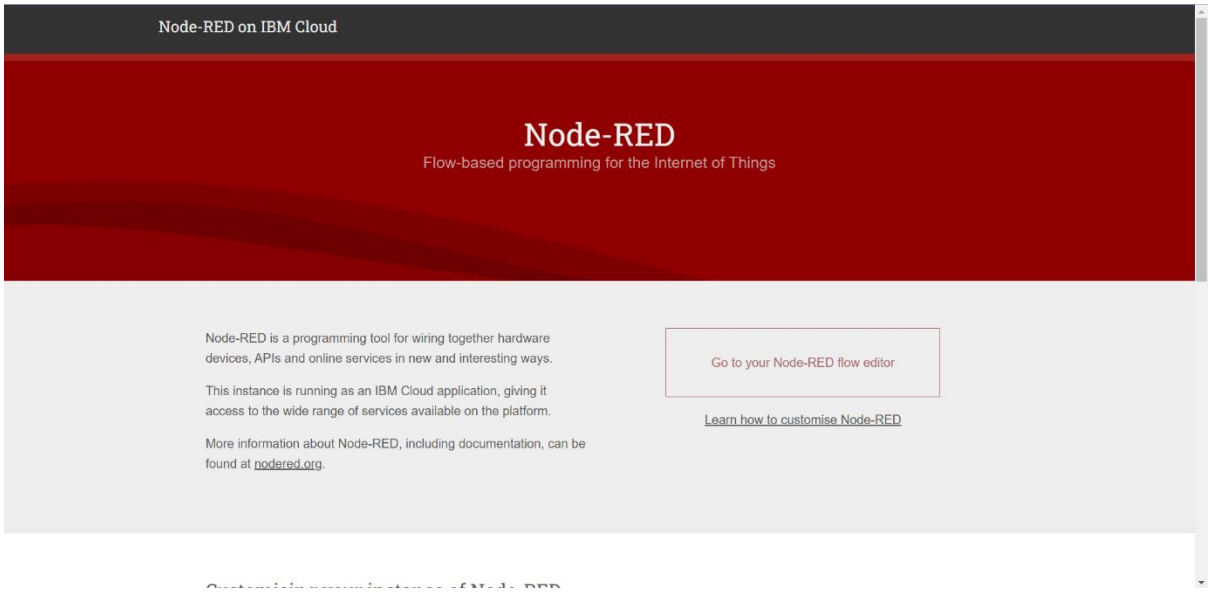
STEP 13: In resource select compute and click on node-red :



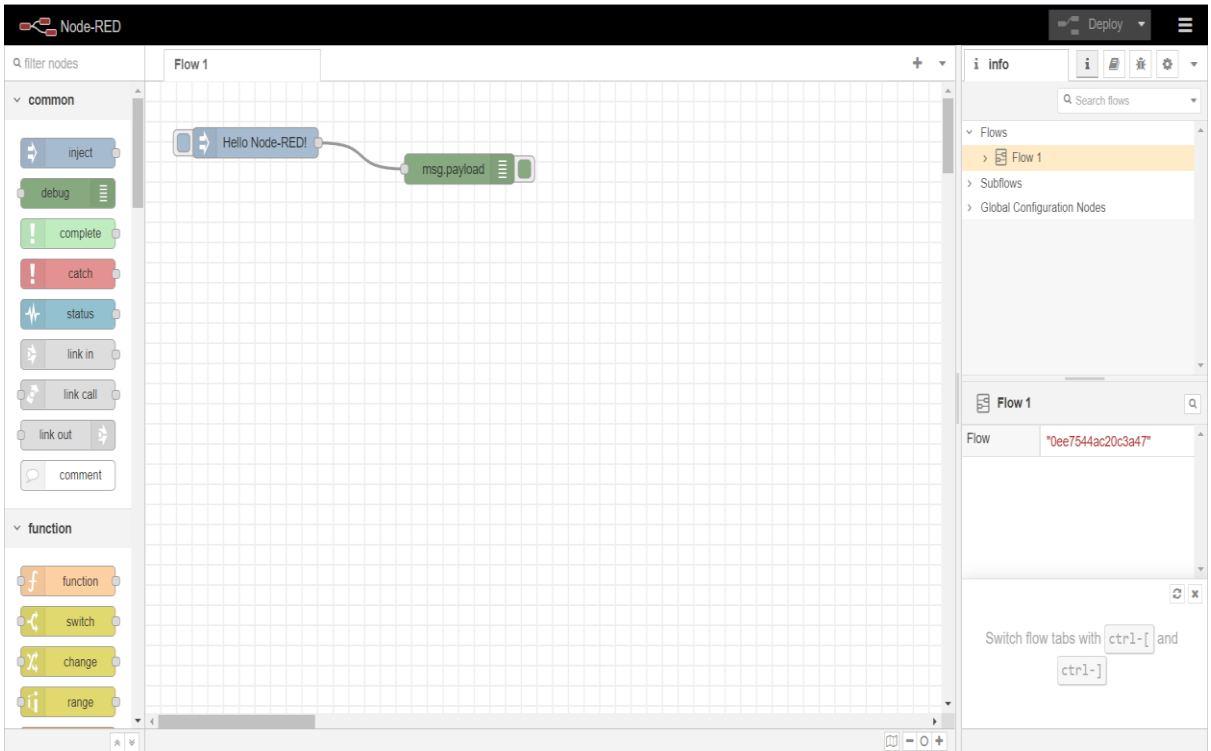
STEP 14:click on visit app url to be redirected to node red:



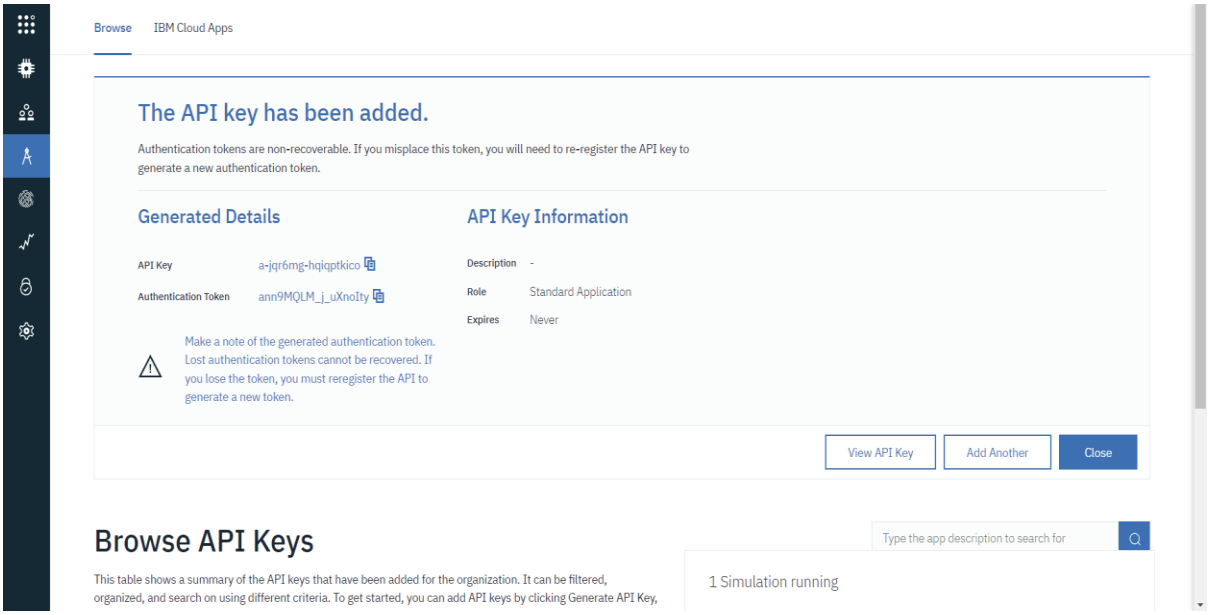
STEP15: Click on go to your NODE-RED flow editor button:



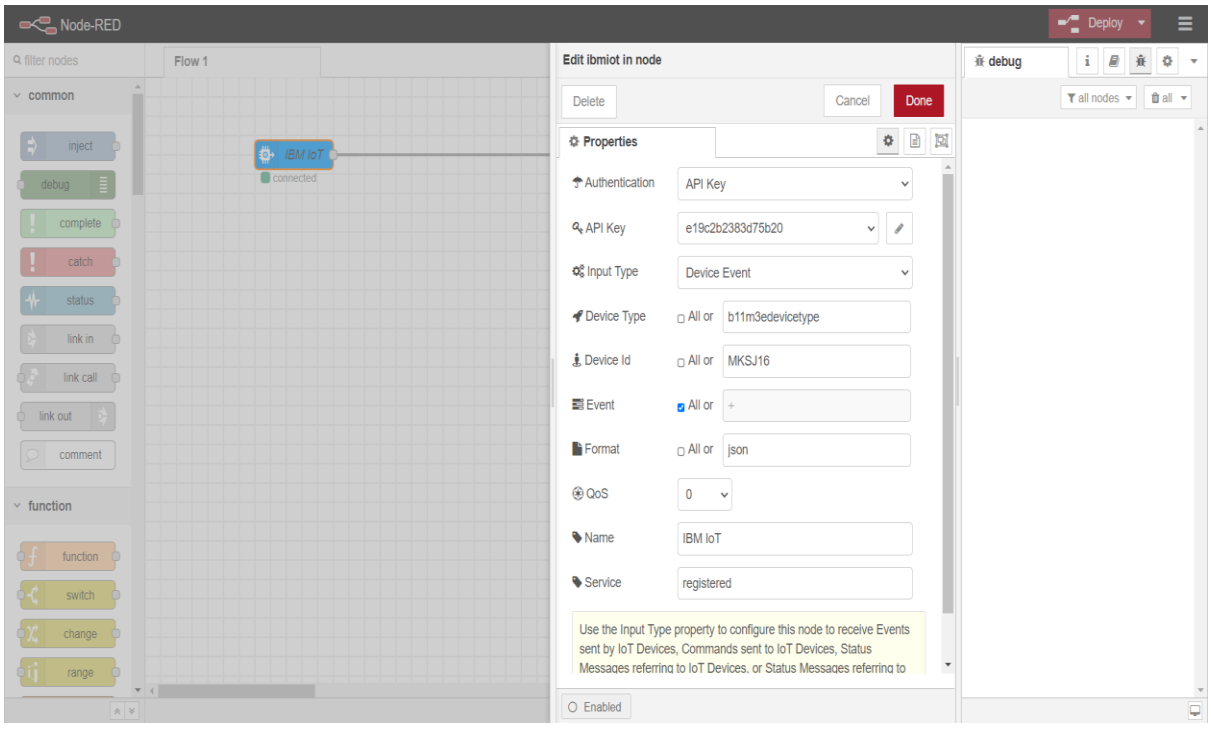
STEP 16: You will be redirected to the node red flow editor:



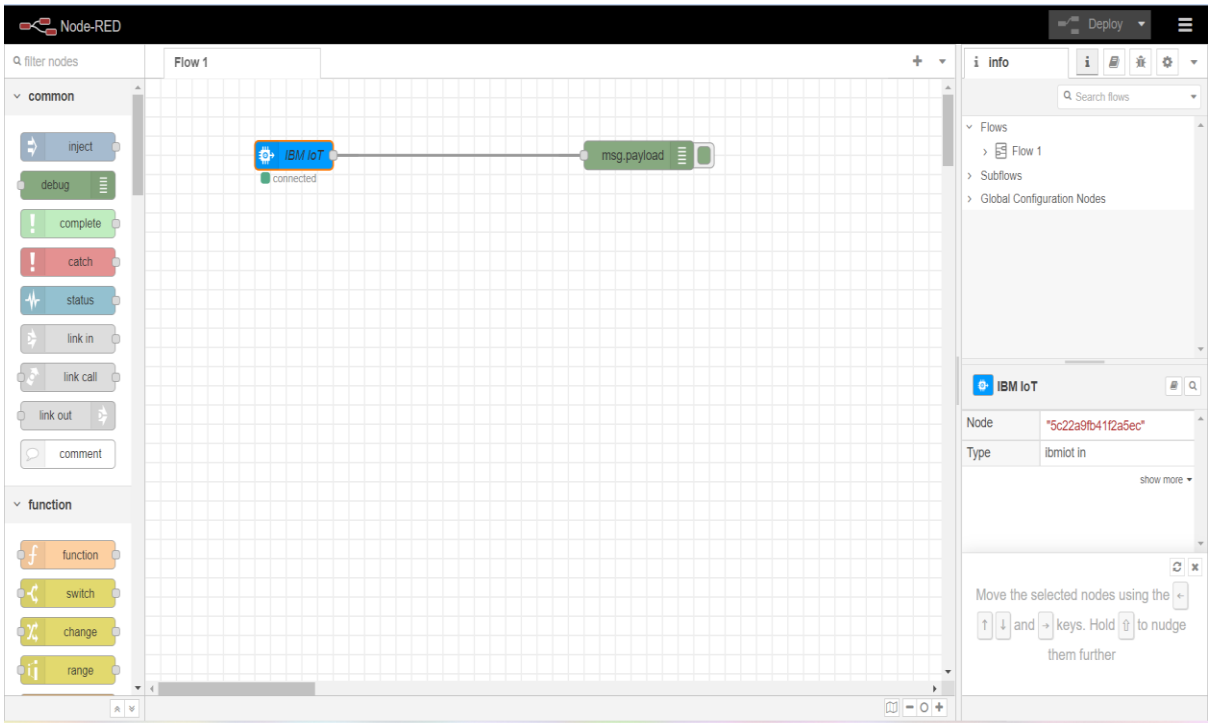
STEP 17: Generating API key and Authentication token:



STEP 18: Edit Ibmiot in node:



STEP 19: Connect Ibmiot in and debug 1 and deploy:



STEP 20: Edit gauge node (the gauge nodes named aslatitude,longitude and available_seats as fig1,fig2,fig3):

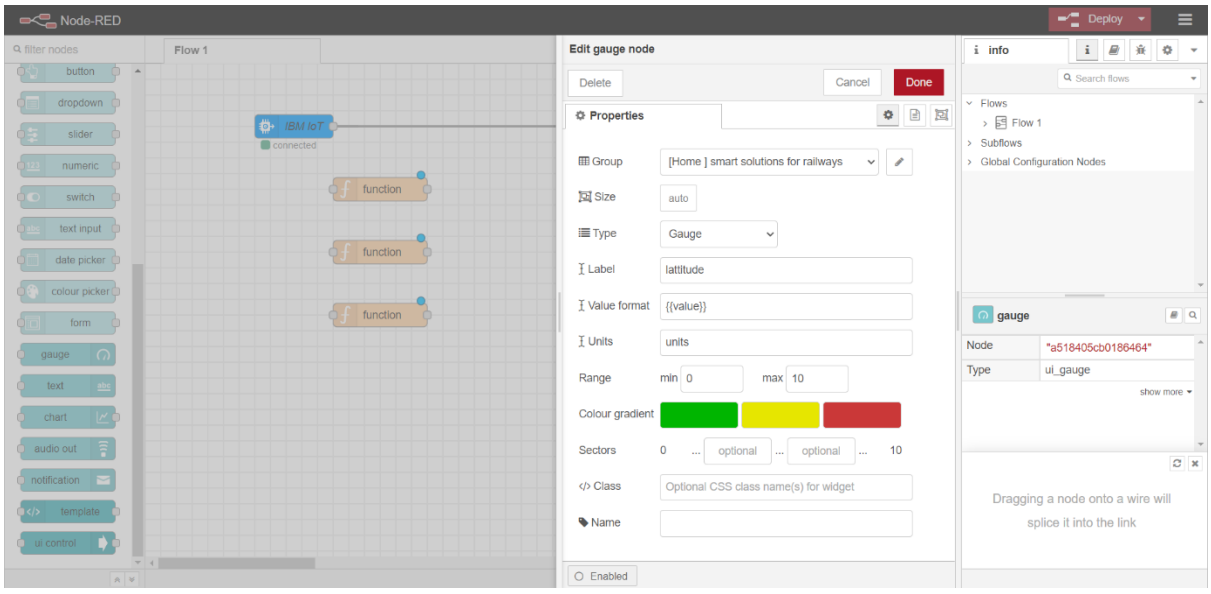


FIG 1

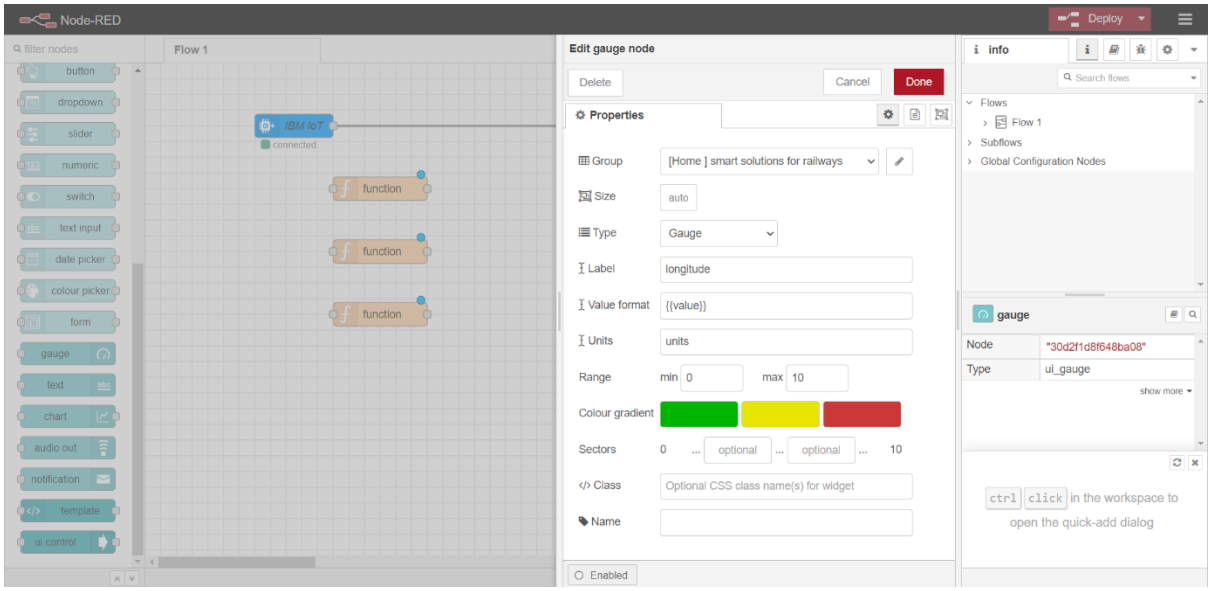
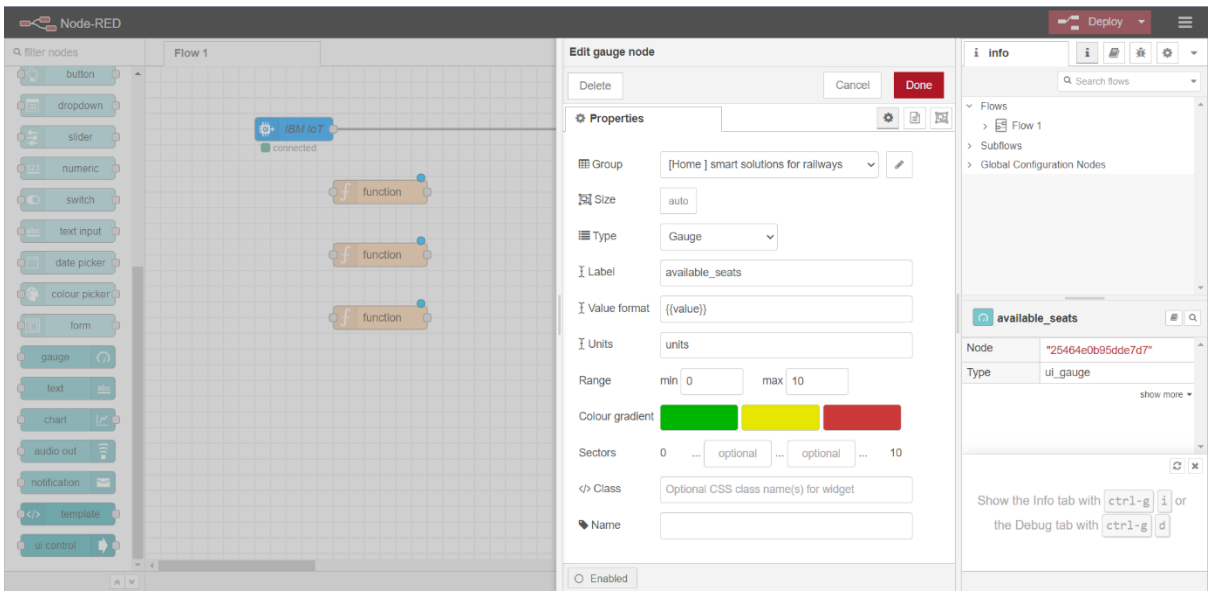

Node-RED
Deploy
filter nodes
Flow 1
button
dropdown
slider
numeric
switch
text input
date picker
colour picker
form
gauge
text
chart
audio out
notification
template
ui control
IBM IoT
connected
function
function
function
Edit gauge node
Delete
Cancel
Done
Properties
Group
[Home] smart solutions for railways
Size
auto
Type
Gauge
Label
longitude
Value format
{{value}}
Units
units
Range
min 0
max 10
Colour gradient
Sectors
0 ... optional ... optional ... 10
Class
Optional CSS class name(s) for widget
Name
Enabled
info
Search flows
Flows
Flow 1
Subflows
Global Configuration Nodes
gauge
Node
"30d2f1d8f648ba08"
Type
ui_gauge
show more
ctrl click in the workspace to open the quick-add dialog

FIG 2


Node-RED
Deploy
filter nodes
Flow 1
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Delete
Cancel
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Properties
Group
[Home] smart solutions for railways
Size
auto
Type
Gauge
Label
available_seats
Value format
{{value}}
Units
units
Range
min 0
max 10
Colour gradient
Sectors
0 ... optional ... optional ... 10
Class
Optional CSS class name(s) for widget
Name
Enabled
info
Search flows
Flows
Flow 1
Subflows
Global Configuration Nodes
available_seats
Node
"25464e0b95dde7d7"
Type
ui_gauge
show more
Show the Info tab with ctrl-g i or the Debug tab with ctrl-g d

FIG 3

STEP 21: Generate debug message from IBM Watson IoT Platform and connect the nodes: