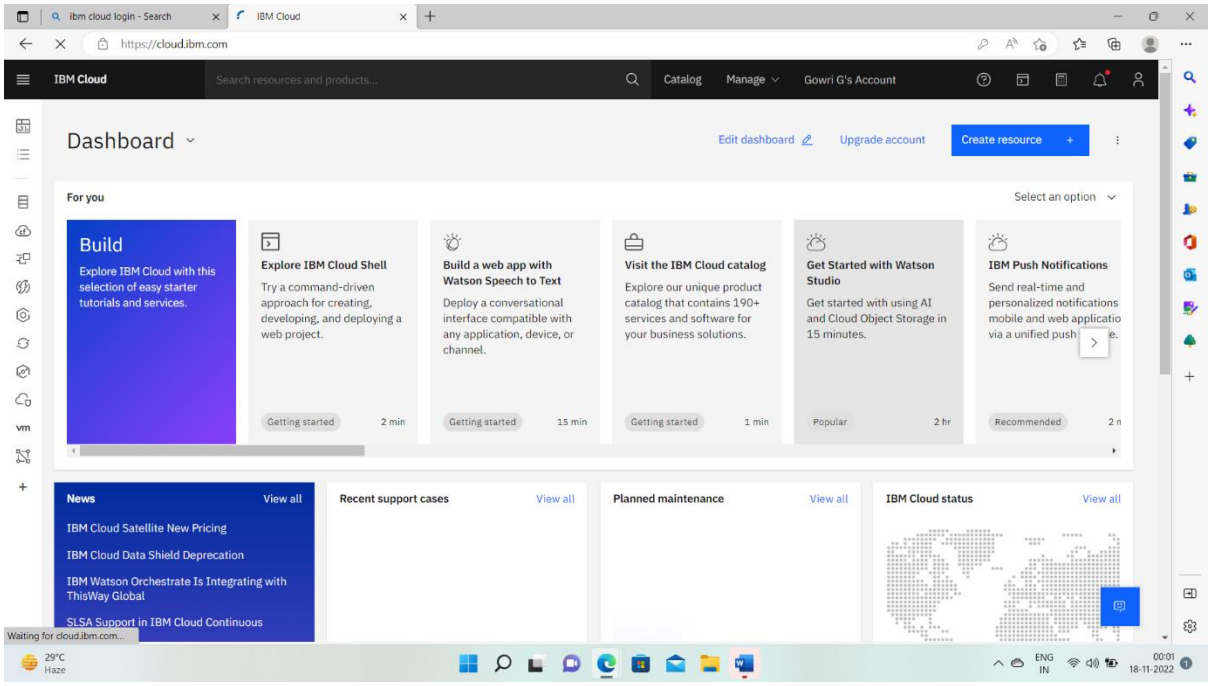
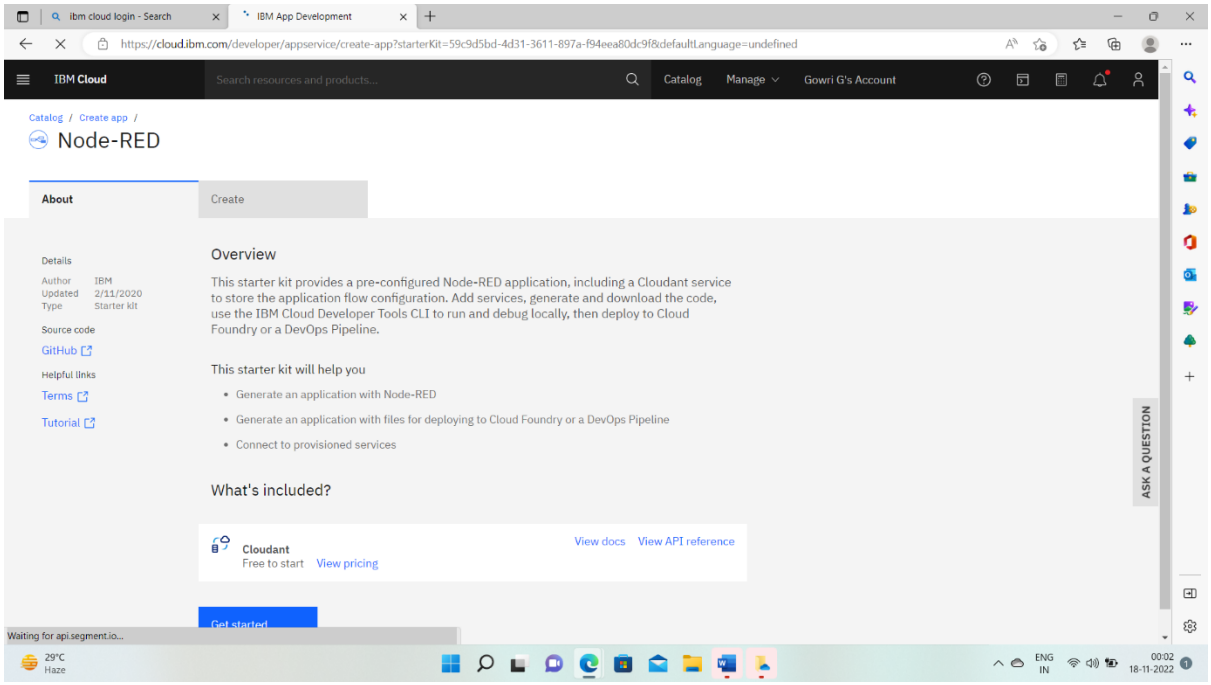
Date	05 November 2022
Team ID	PNT2022YMID38248
Project Name	SMART SOLUTIONS FOR RAILWAYS

CREATING NODE-RED IN IBM CLOUD

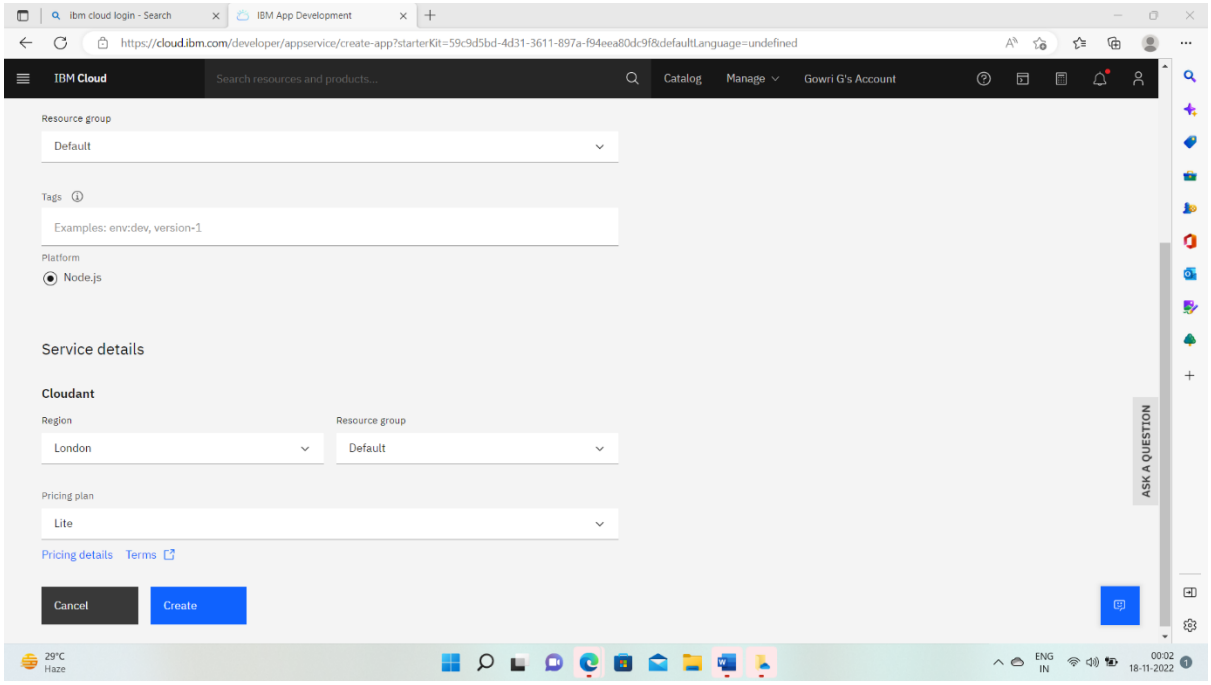
STEP 1: Open ibm cloud:



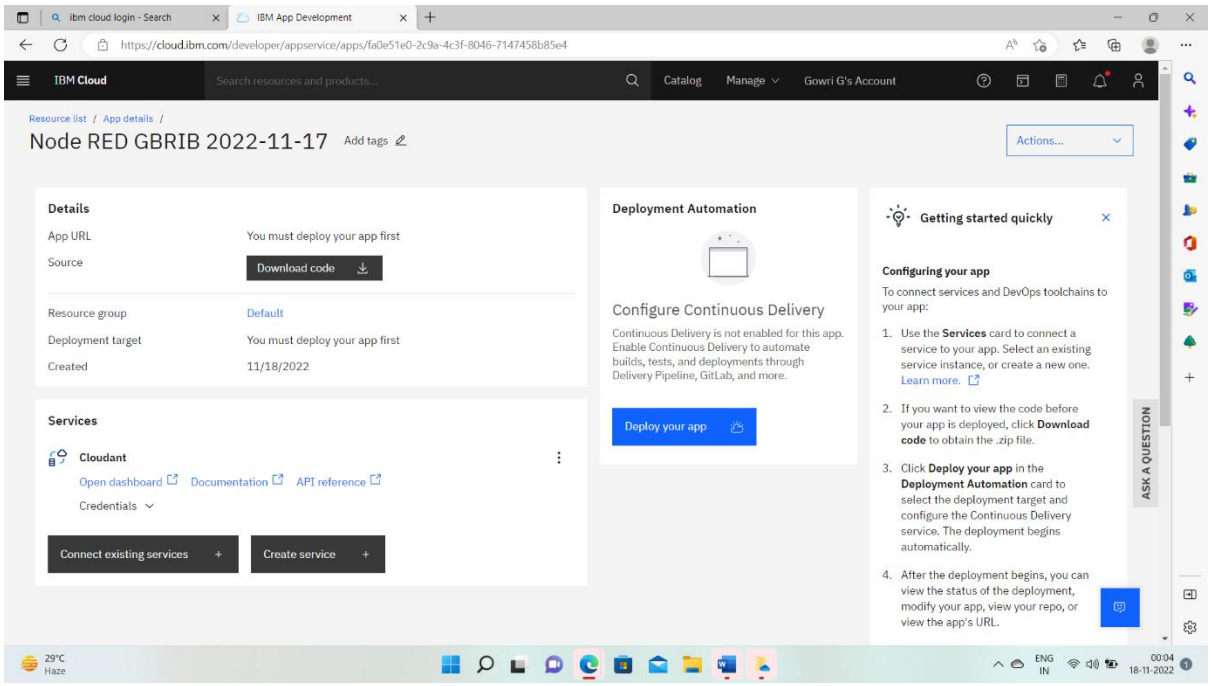
STEP 2: Go to catalog and search for node red app and open it:



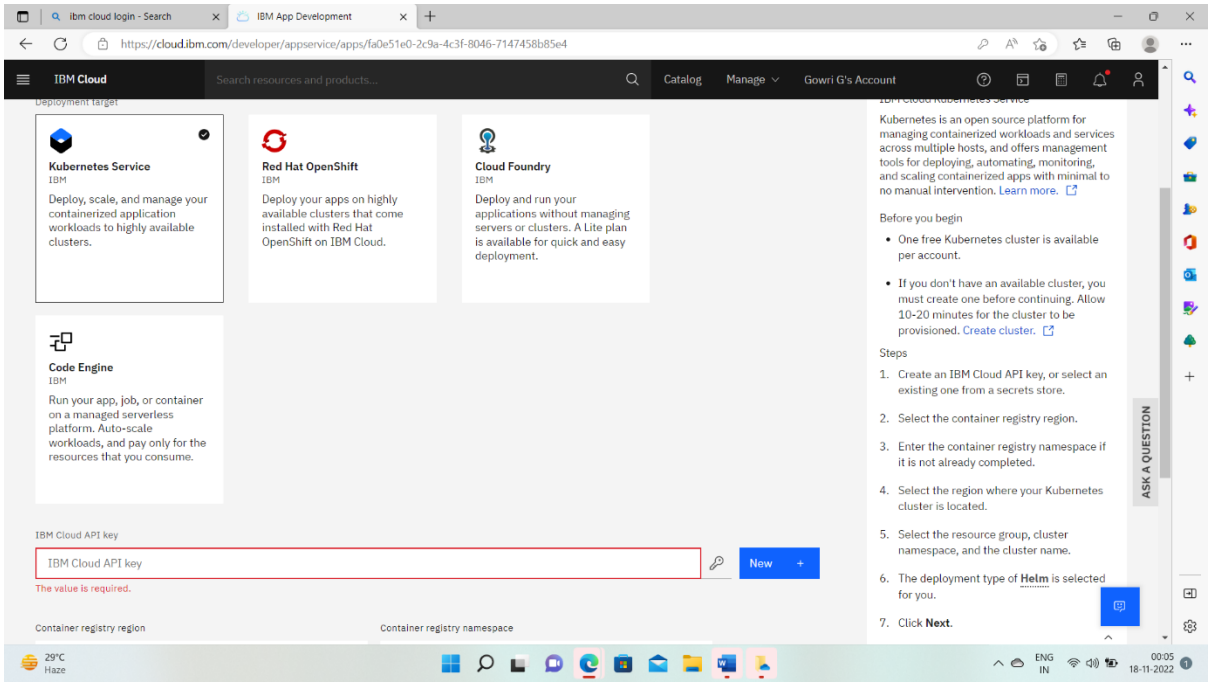
STEP 3: Enter the app name, location and select the plan and click on create.:



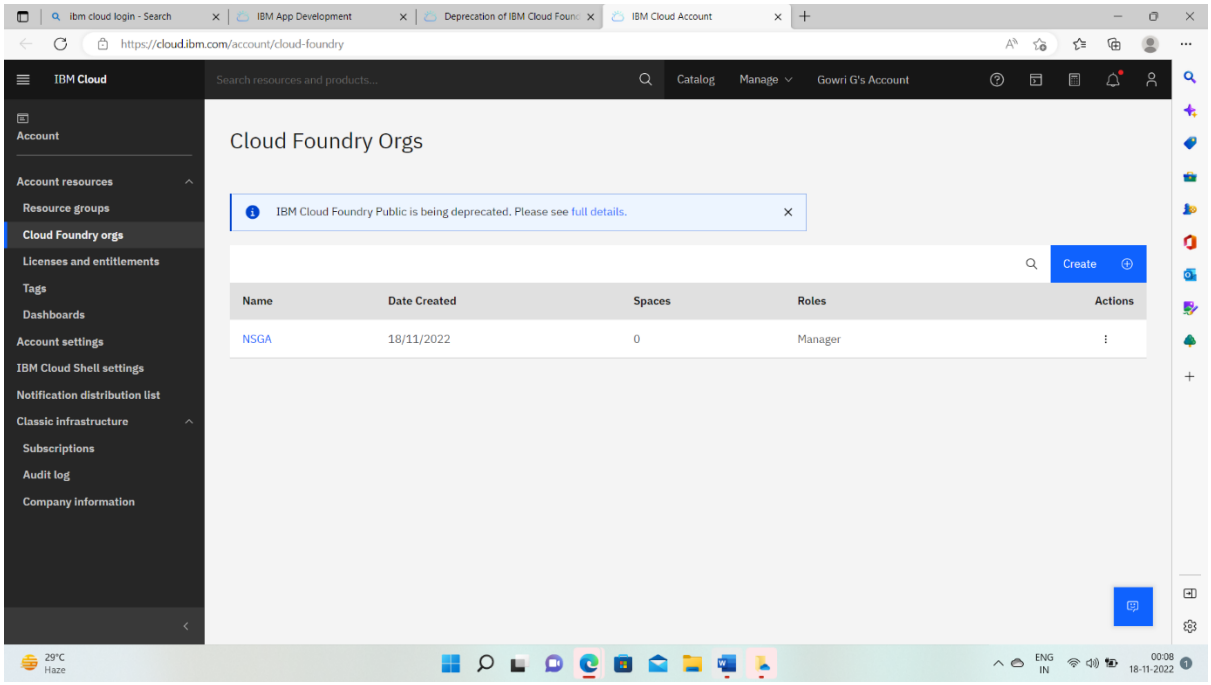
STEP 4: click on deploy your app button:

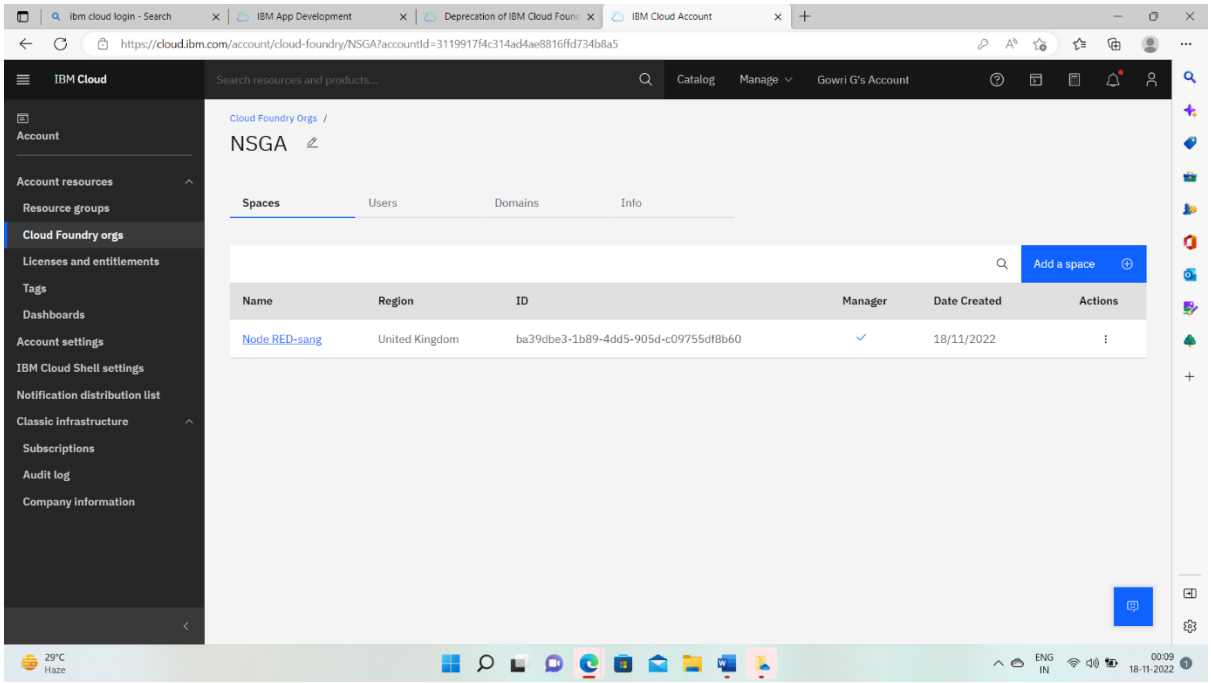


STEP 5: In deployment automation select cloud foundry and click on create.org:

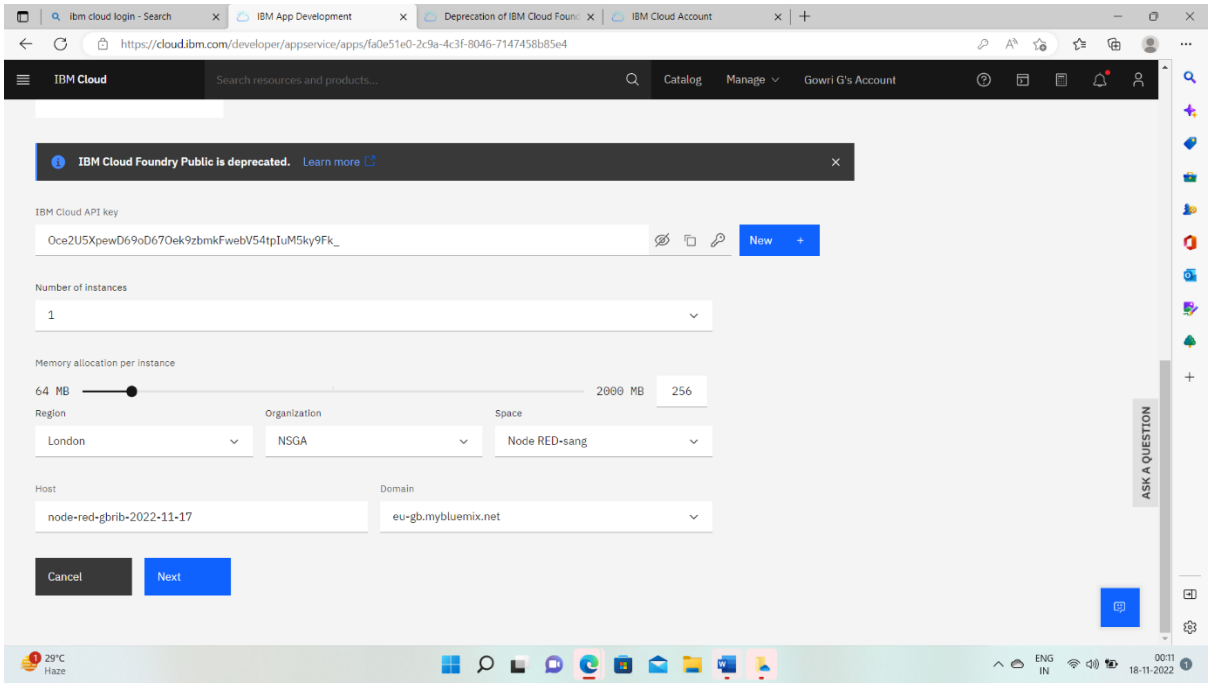


STEP 6: click on create button and enter the name and create a space:

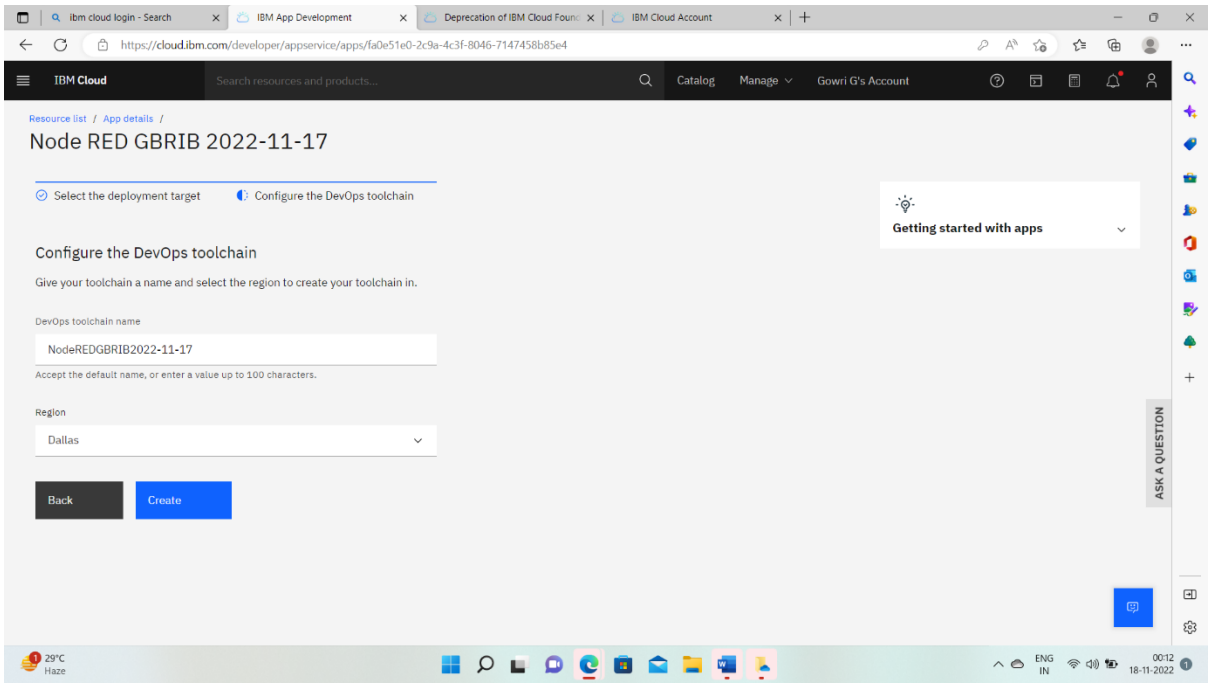




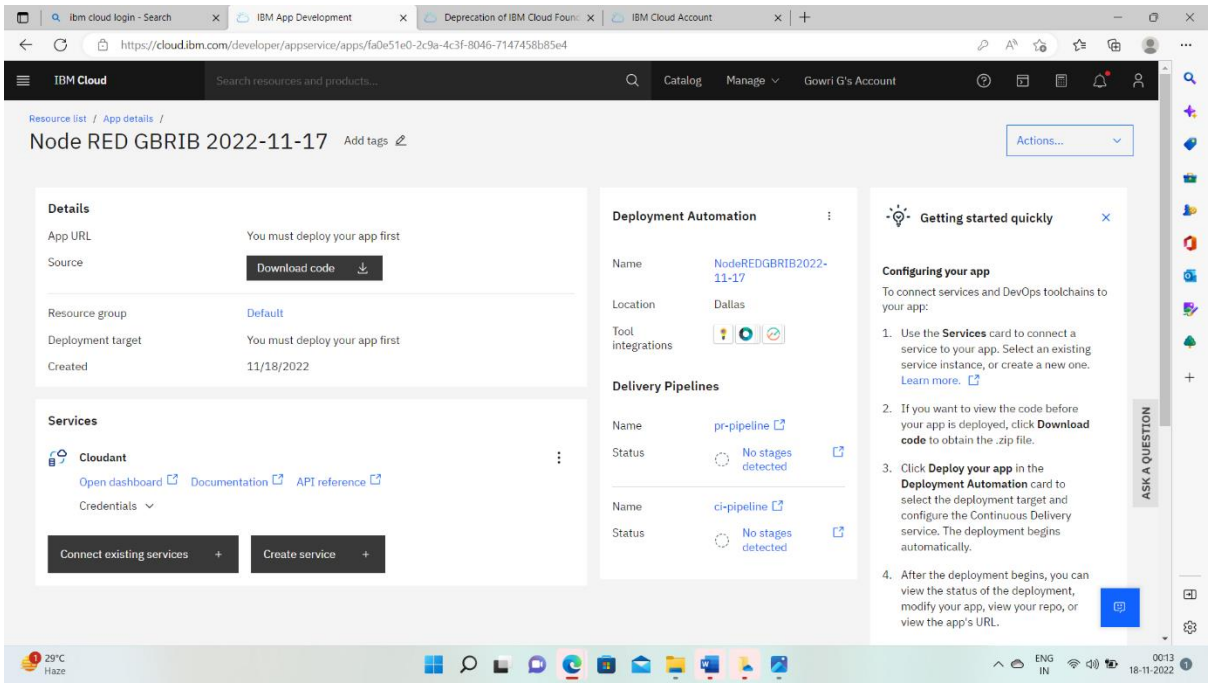
STEP 7: In app development click new on api key and select region and click next:



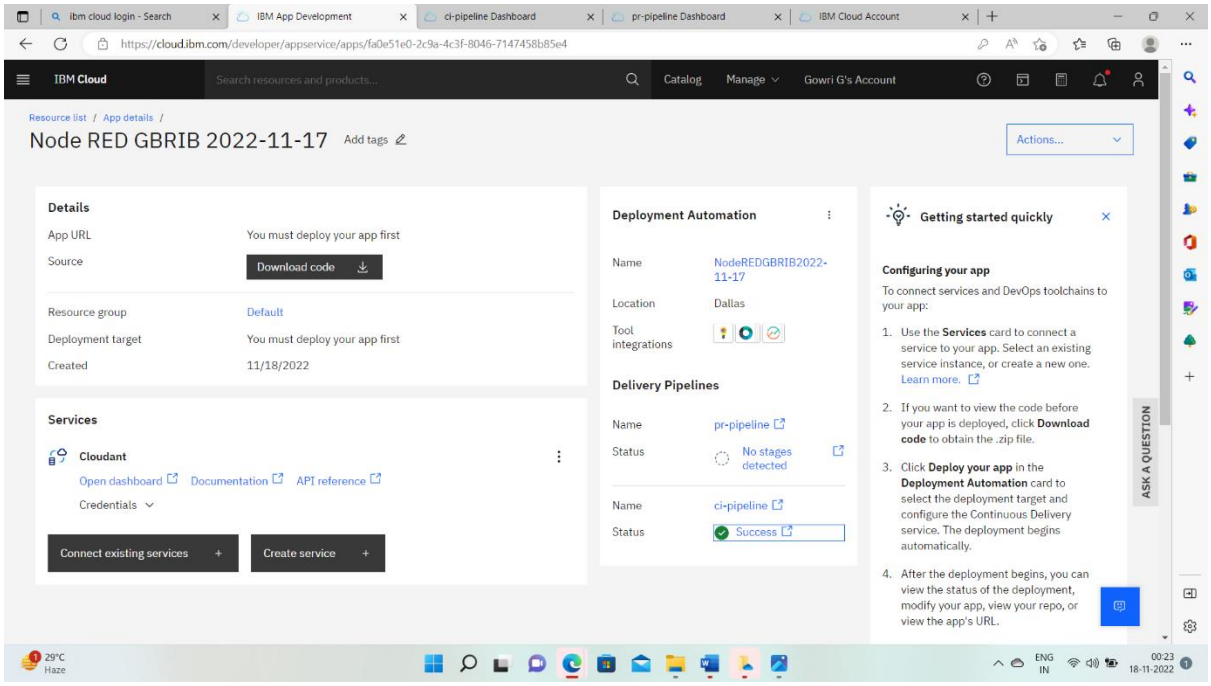
STEP 8: select the region and click create:



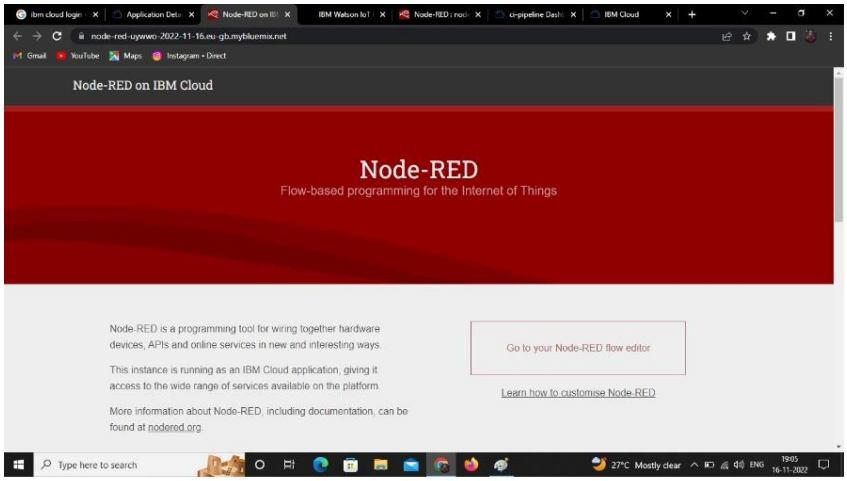
STEP 9: Wait till you get the success in ci-pipeline and app URL is generated:



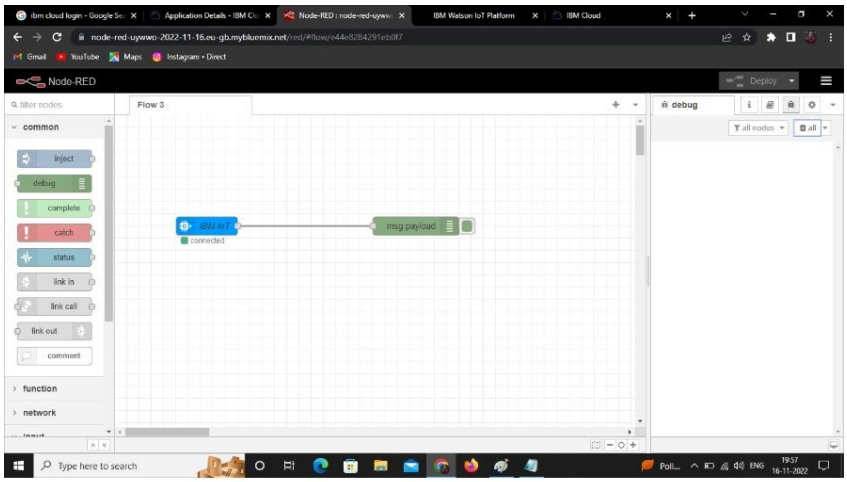
STEP 10: Now click on the generated APP URL:



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

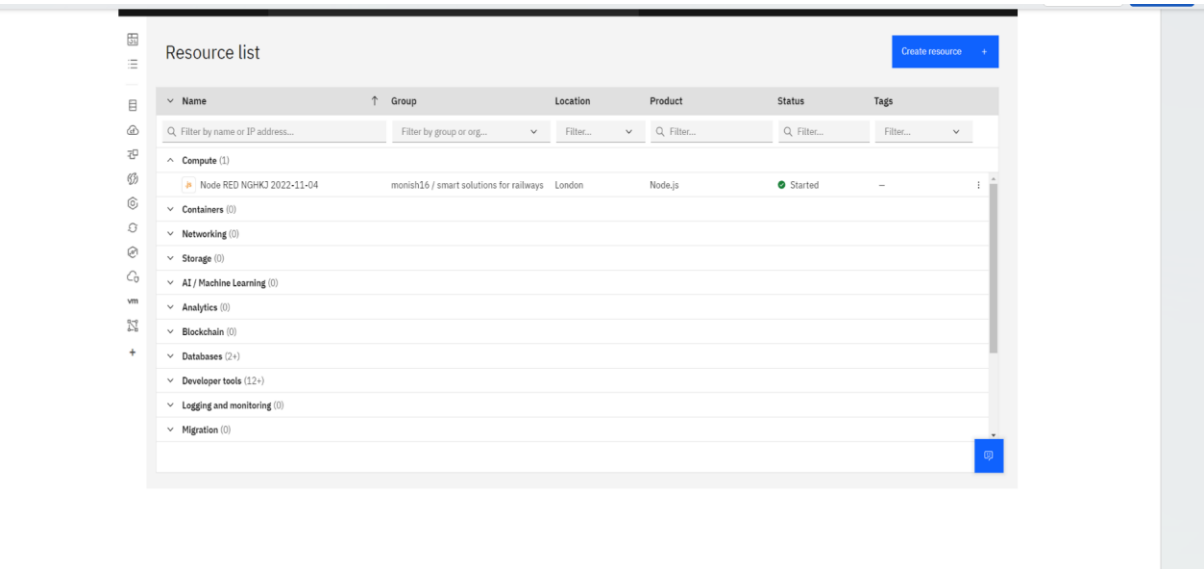


STEP 12: Click on node-red flow editor and you will be redirected to your node-red workspace:

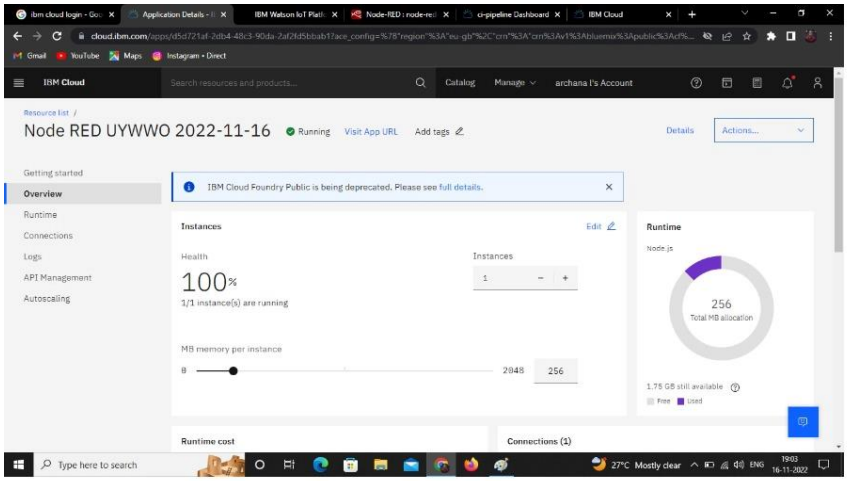


DIRECTING TO CREATED NODE-RED WORKSPACE

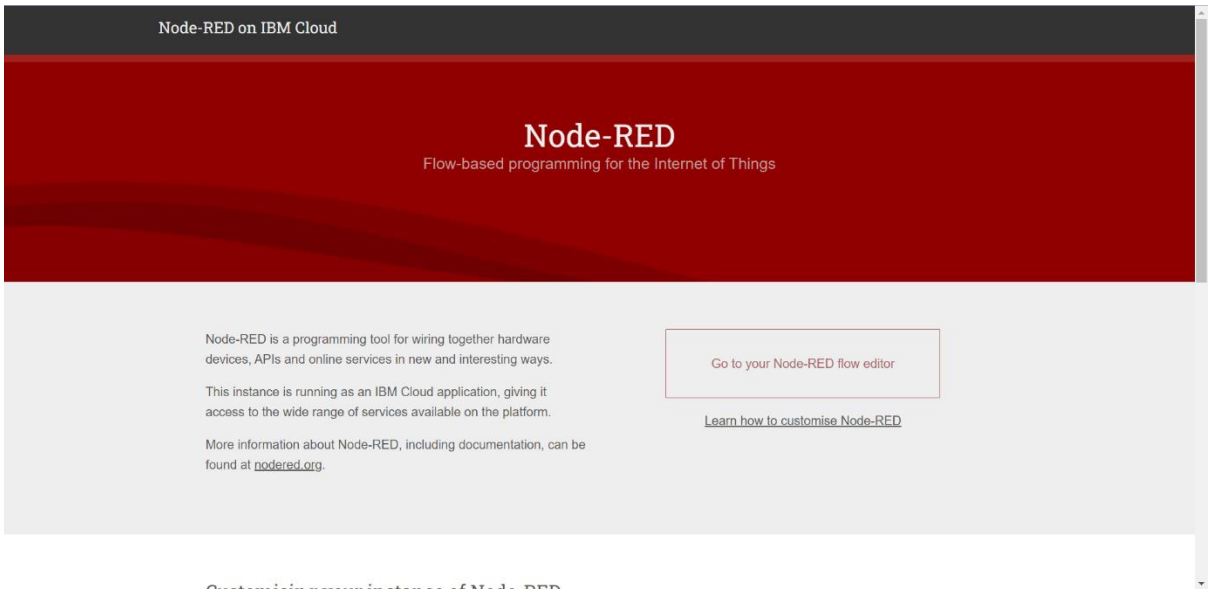
STEP 13: In resource select compute and click on node-red :



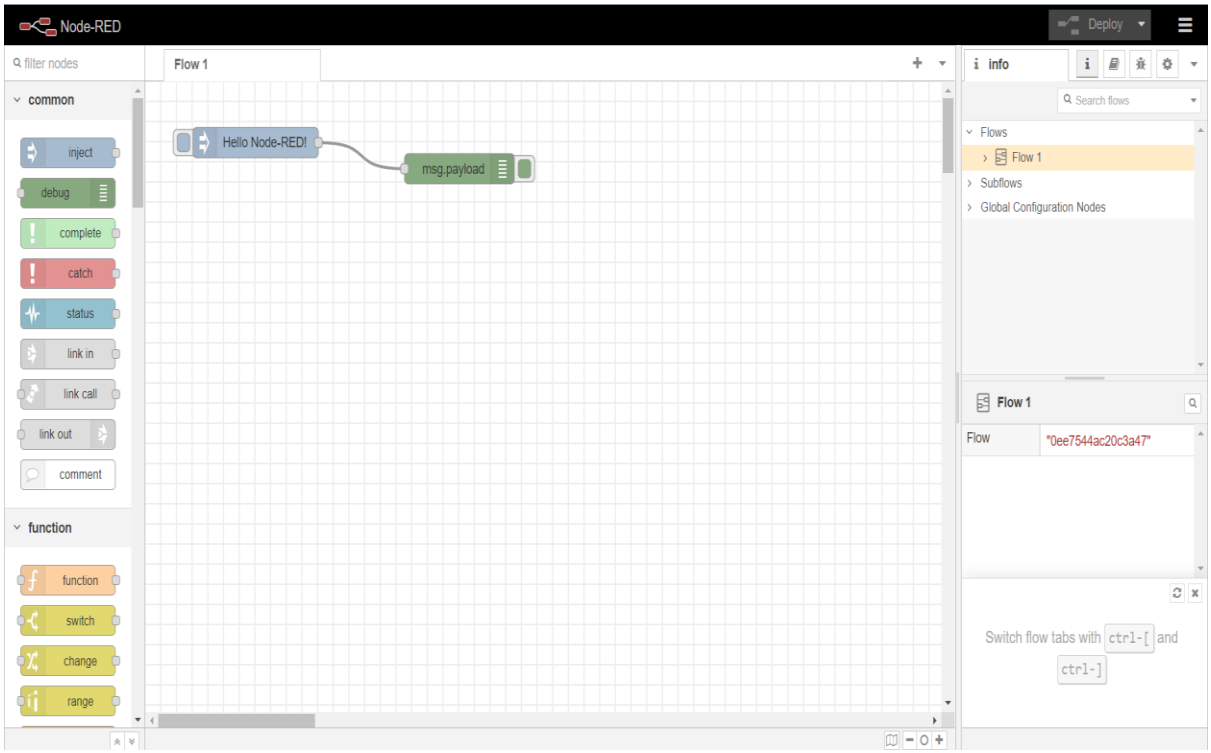
STEP 14: click on visit app url to be redirected to node red:



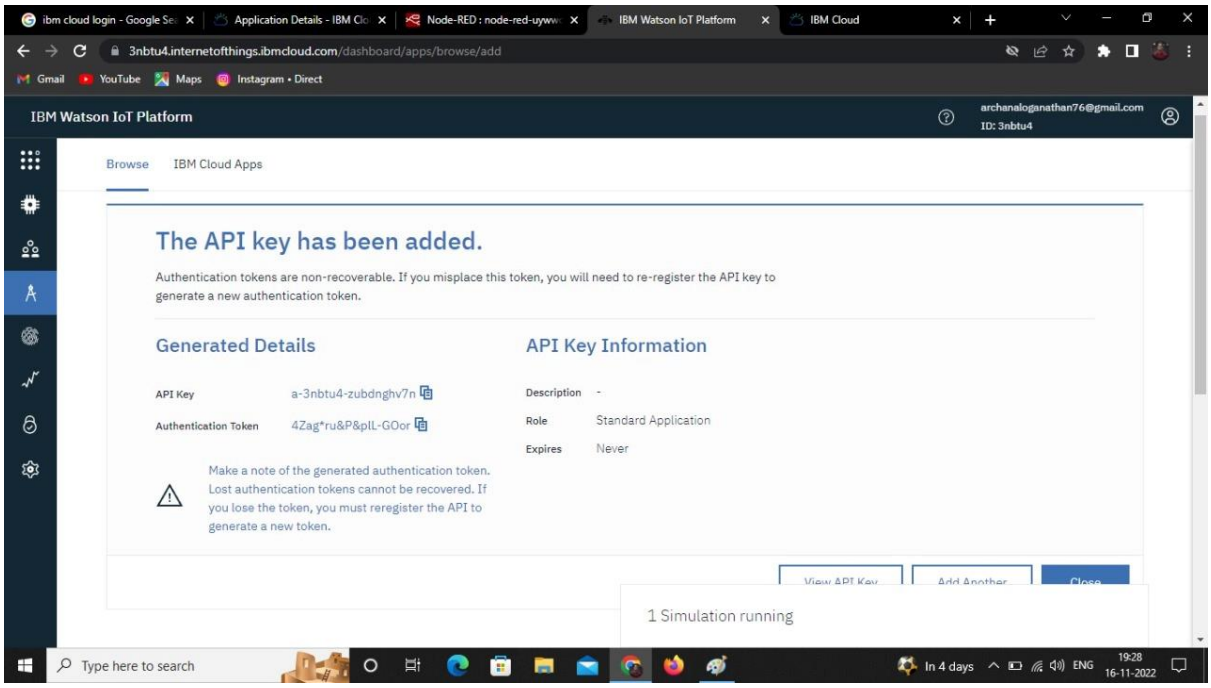
STEP 15: Click on go to your NODE-RED flow editor button:



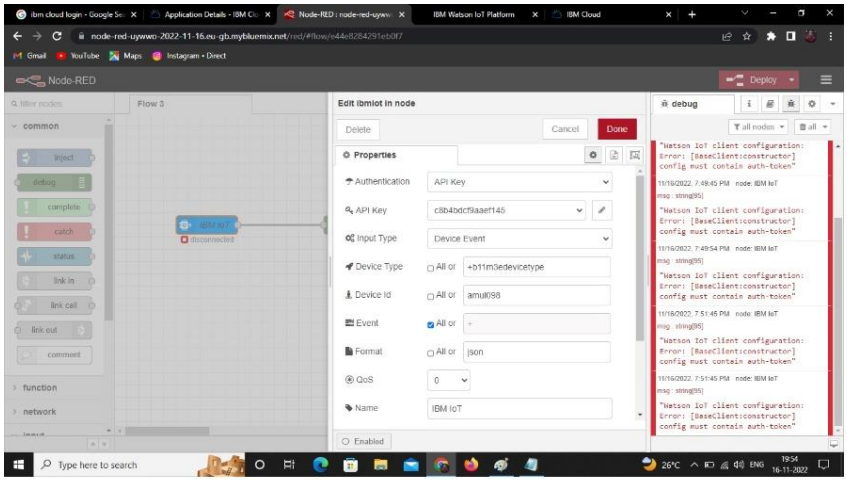
STEP 16: You will be redirected to the node red flow editor:



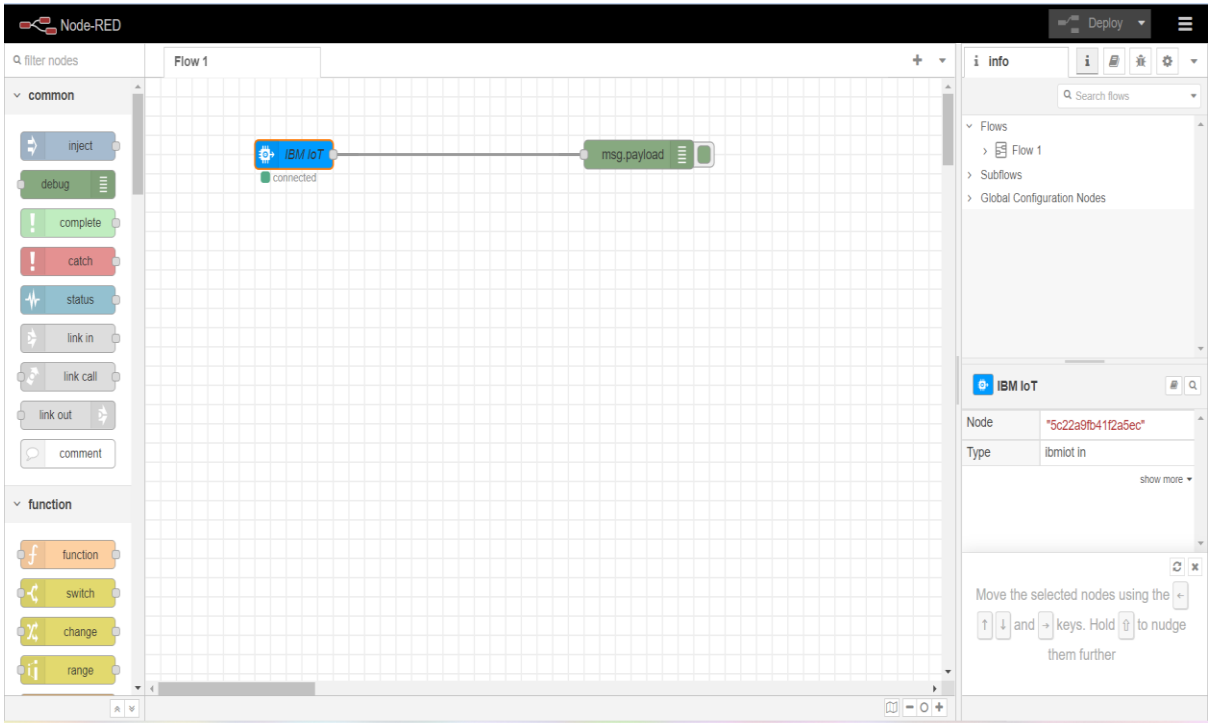
STEP 17: Generating API key and Authentication token:



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 as latitude,longitude and available_seats as fig1,fig2,fig3):

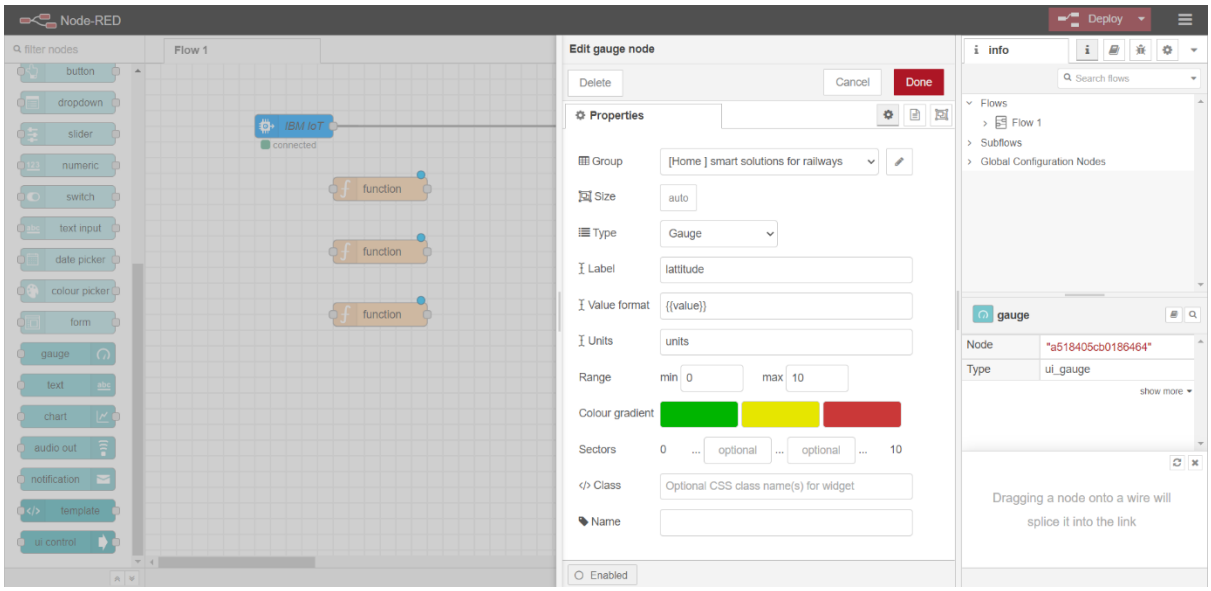


FIG 1

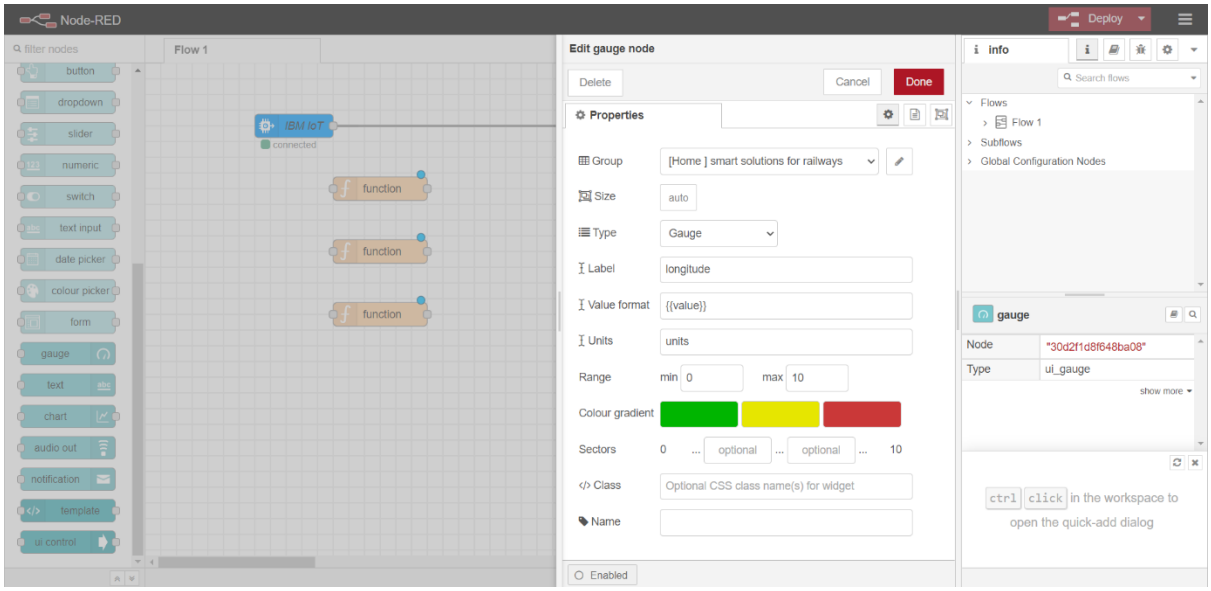


FIG 2

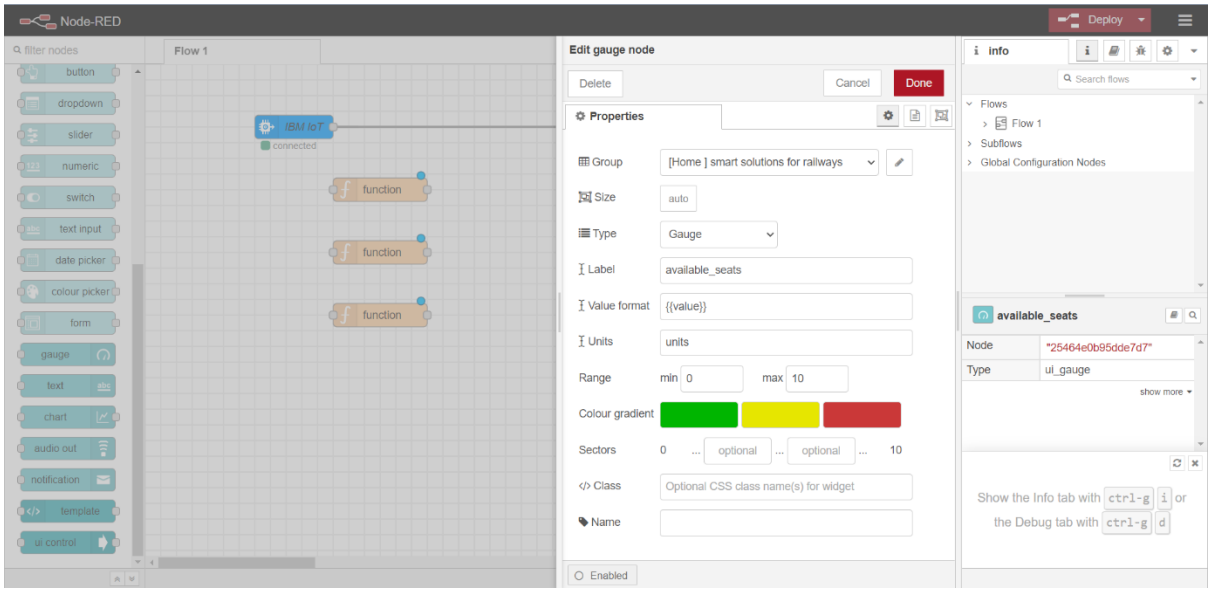
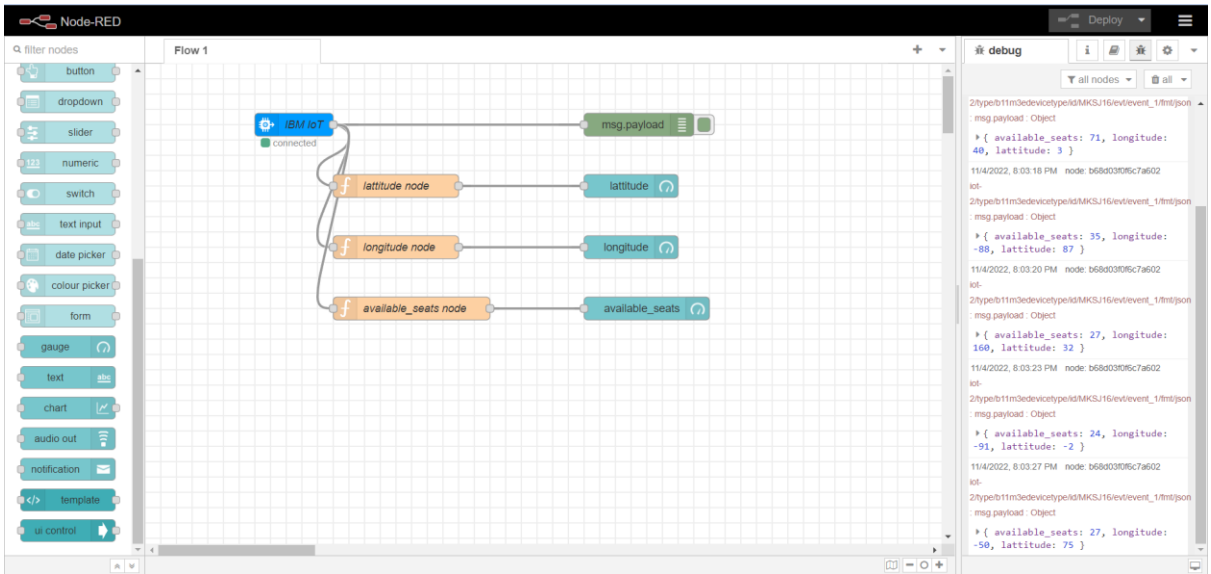
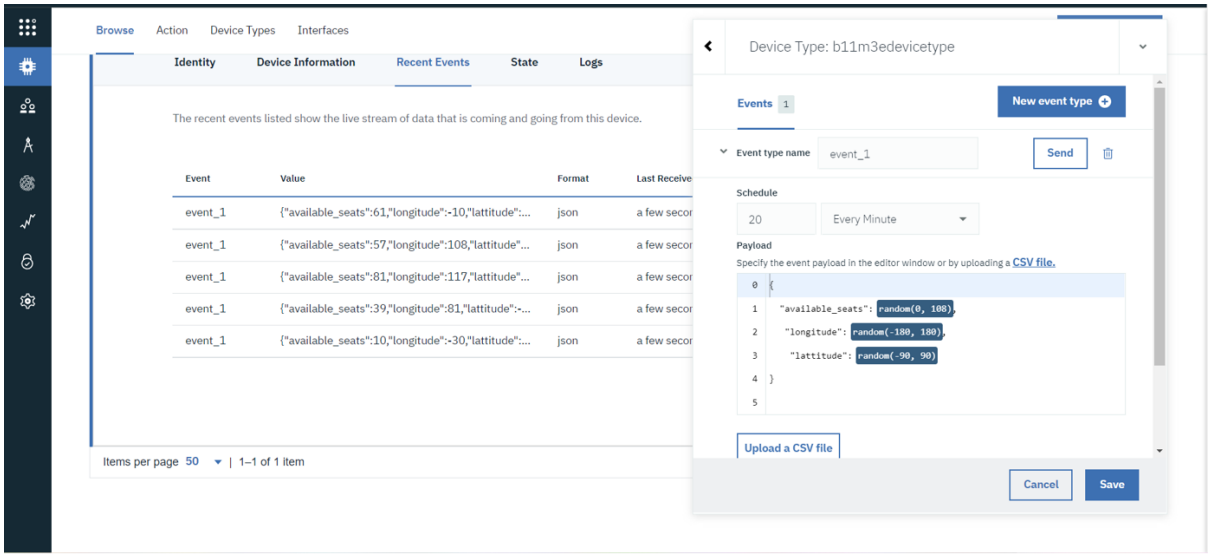


FIG 3

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




Browse
Action
Device Types
Interfaces
Identity
Device Information
Recent Events
State
Logs
The recent events listed show the live stream of data that is coming and going from this device.
Event
Value
Format
Last Receive
event_1
{"available_seats":61,"longitude":-10,"lattitude":...
json
a few secor
event_1
{"available_seats":57,"longitude":108,"lattitude"...
json
a few secor
event_1
{"available_seats":81,"longitude":117,"lattitude"...
json
a few secor
event_1
{"available_seats":39,"longitude":81,"lattitude":-...
json
a few secor
event_1
{"available_seats":10,"longitude":-30,"lattitude":...
json
a few secor
Items per page 50
1–1 of 1 item
Device Type: b11m3edevicetype
Events 1
New event type
Event type name
event_1
Send
Schedule
20
Every Minute
Payload
Specify the event payload in the editor window or by uploading a CSV file.
{
"available_seats": random(0, 100),
"longitude": random(-180, 180),
"lattitude": random(-90, 90)
}
Upload a CSV file
Cancel
Save