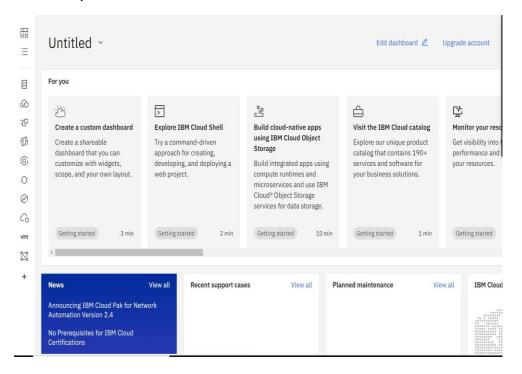
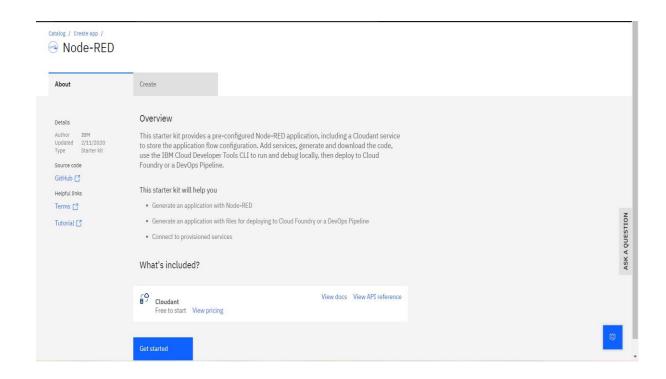
Team ID	PNT2022TMID43868
Project Name	SMART SOLUTIONS FOR RAILWAYS

CREATING NODE-RED IN IBM CLOUD

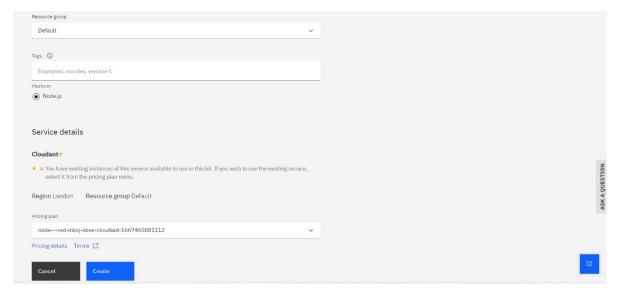
STEP 1: Open IBM cloud:



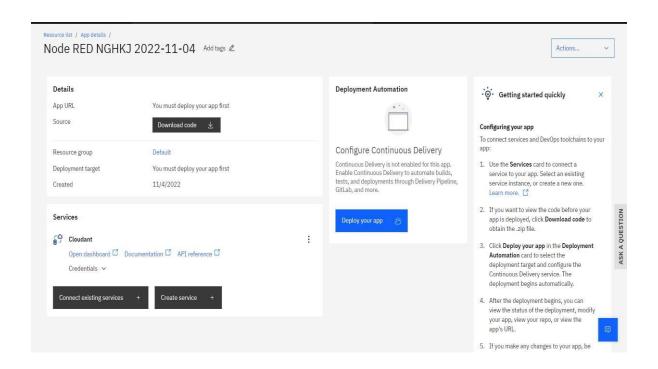
STEP 2: Go to catalogue and search for node red app and open it:



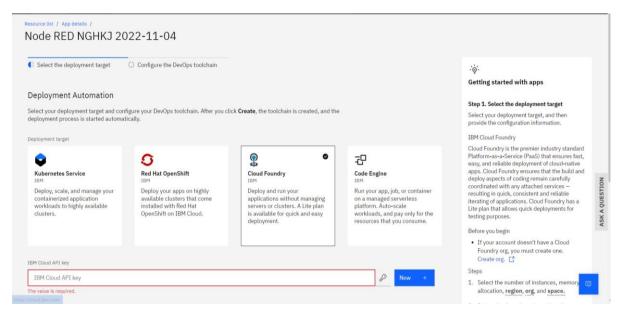
STEP 3: Enter the app name, location and select the plan and click on create.:



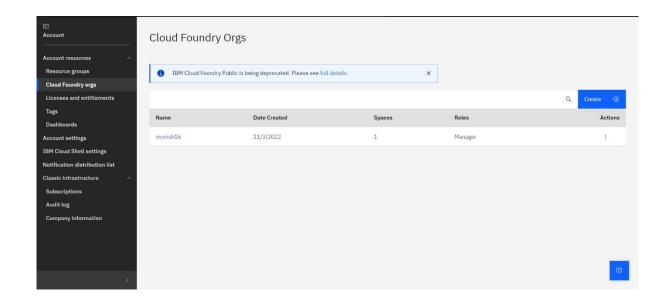
STEP 4: click on deploy your app button:

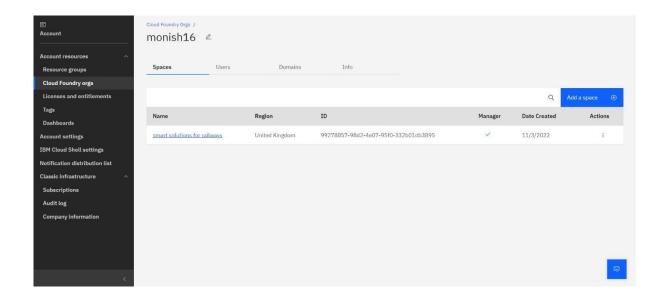


STEP 5: In deployment automation select cloud foundry and click on create.org:

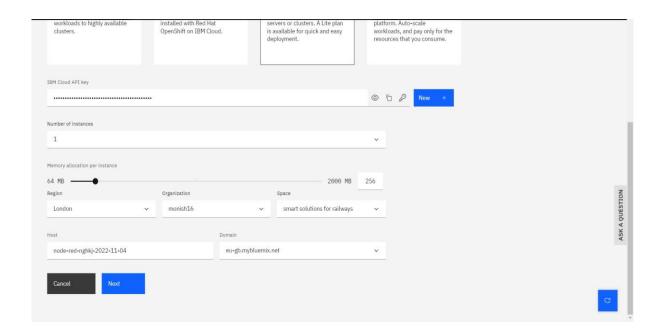


STEP 6: click on create button and enter the name and create a space:

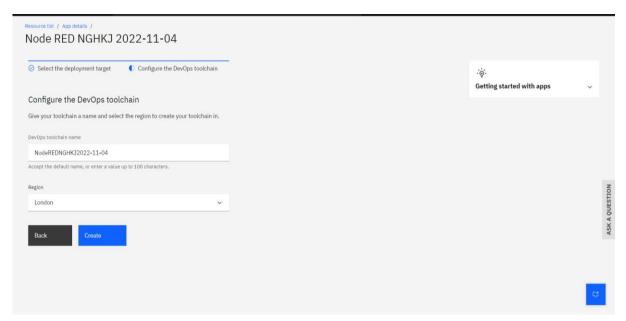




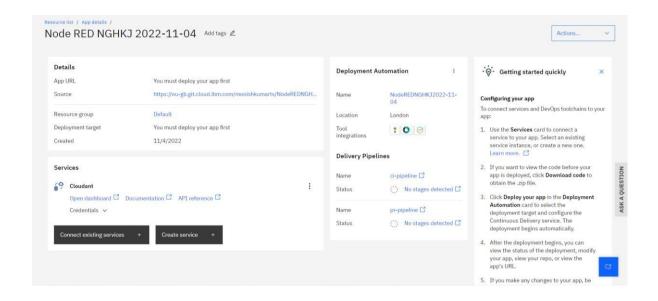
STEP 7: In app development click new on api key and select region and click next:



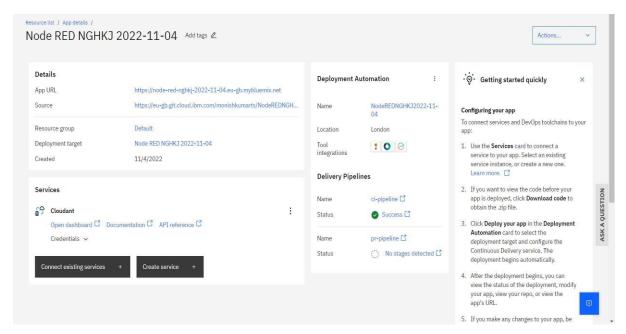
STEP 8: Select the region and click create:



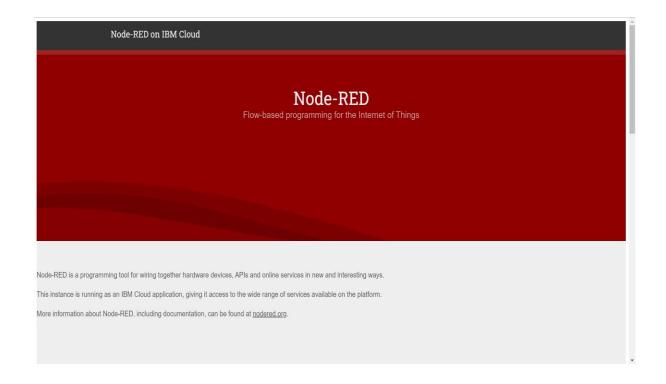
STEP 9: Wait till you get the success in ci-pipeline and app URL is generated:



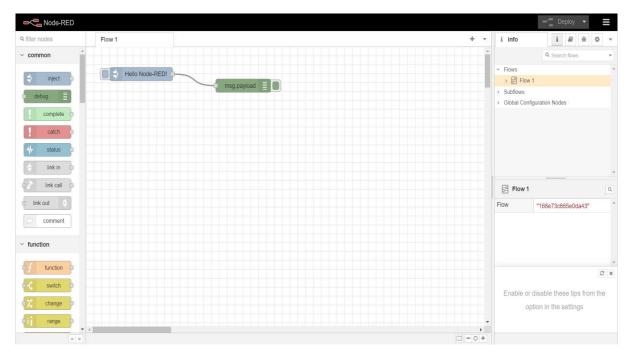
STEP 10: Now click on the generated APP URL:



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

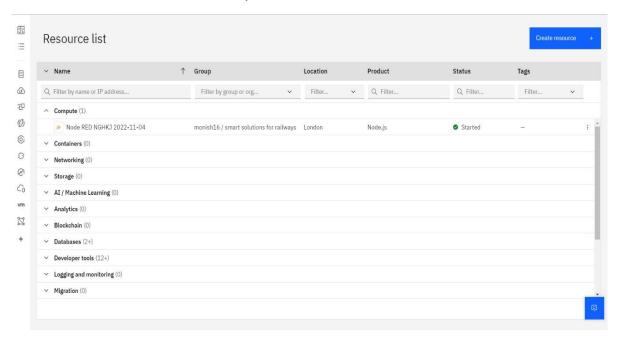


STEP 12: Click on node-red flow editor and you will be redirected to your node-red workspace:

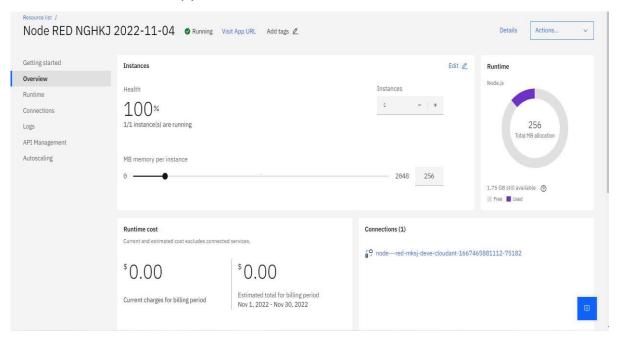


DIRECTING TO CREATED NODE-RED WORKSPACE

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



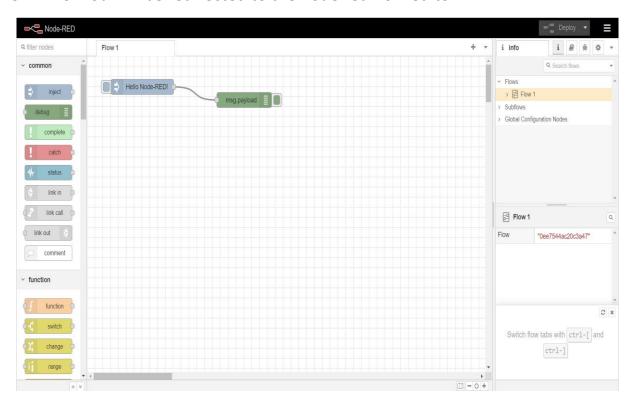
STEP 14: Click on visit app URL to be redirected to node red:



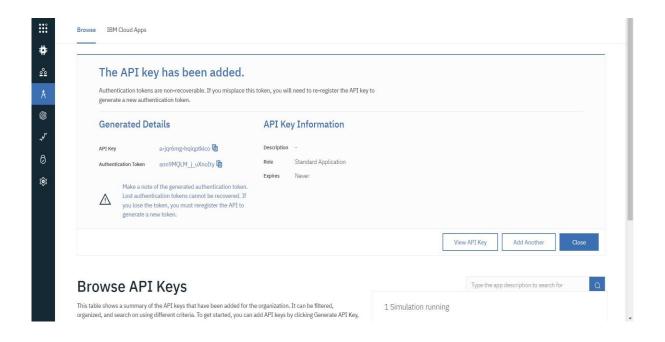
STEP15: Click on go to your NODE-RED flow editor button:

Node-RED on IBM Cloud		ĺ
Node-RED Flow-based programming for the Internet of Things		
Node-RED is a programming tool for wiring together hardware devices, APIs and online services in new and interesting ways. This instance is running as an IBM Cloud application, giving it access to the wide range of services available on the platform. More information about Node-RED, including documentation, can be found at nodered.org.	Go to your Node-RED flow editor Learn how to customise Node-RED	
Control in the control of the depth of the control		

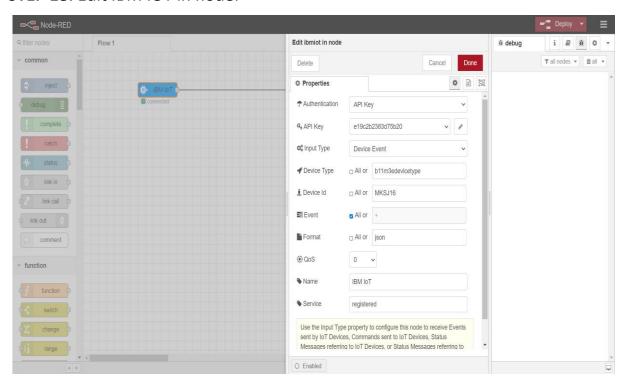
STEP 16: You will be redirected to the node red flow editor:



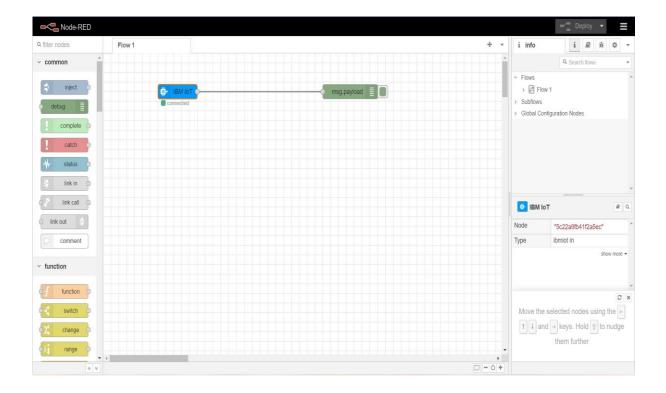
STEP 17: Generating API key and Authentication token:



STEP 18: Edit IBM IOT in node:



STEP 19: Connect IBM IOT in and debug 1 and deploy:



STEP 20: Edit gauge node (the gauge nodes named altitude, longitude and available seats as fig1,fig2,fig3):

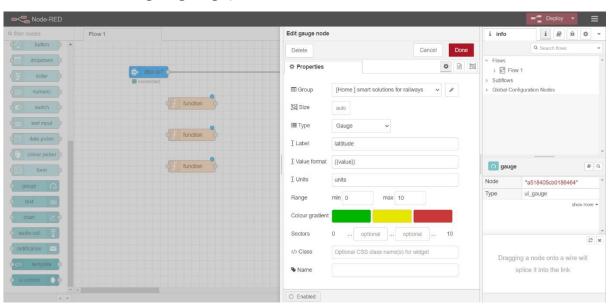


FIG 1

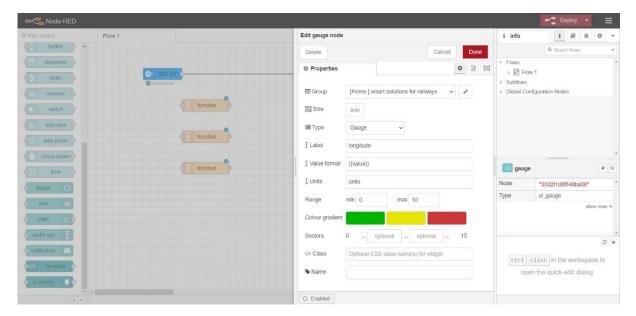


FIG 2

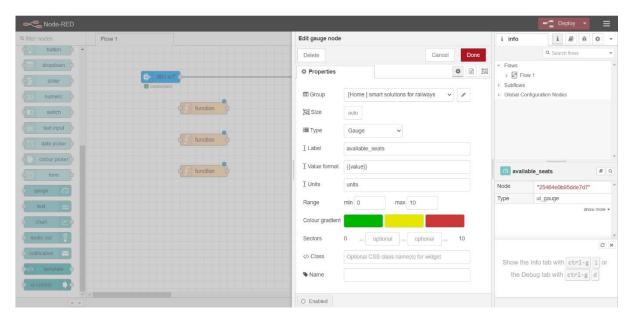


FIG 3

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

