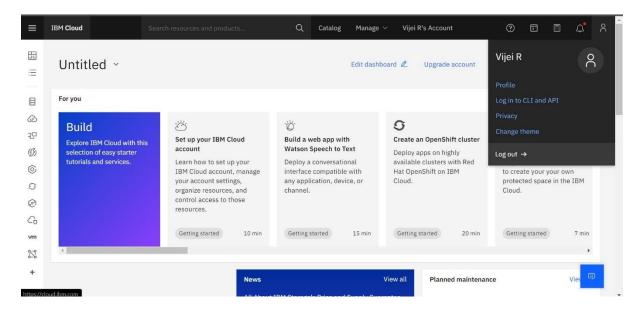
### Create Node-RED Service

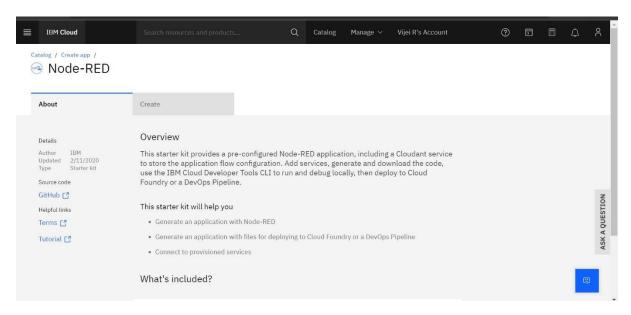
#### **CREATING NODE-RED IN IBM CLOUD**

Team ID	PNT2022TMID44878
Project Name	SMART SOLUTIONS FOR RAILWAYS

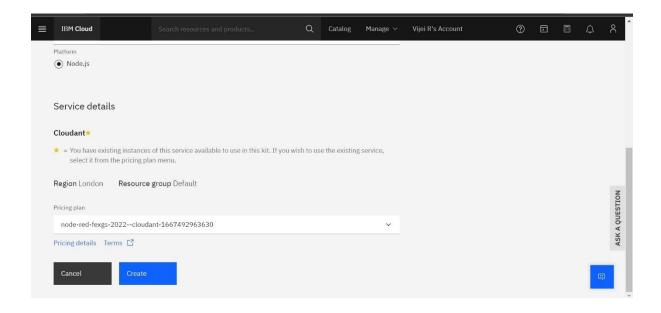
### STEP 1: Open IBM cloud:



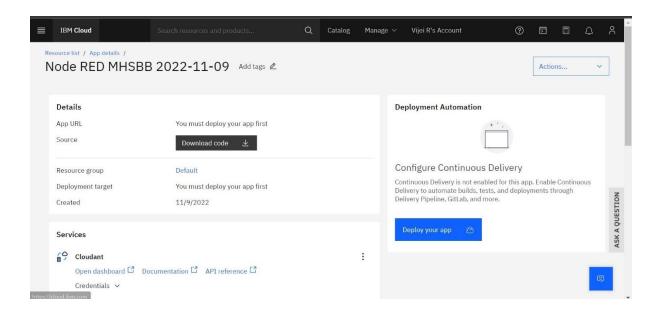
## STEP 2: Go to CatLog and search for node red app and open it:



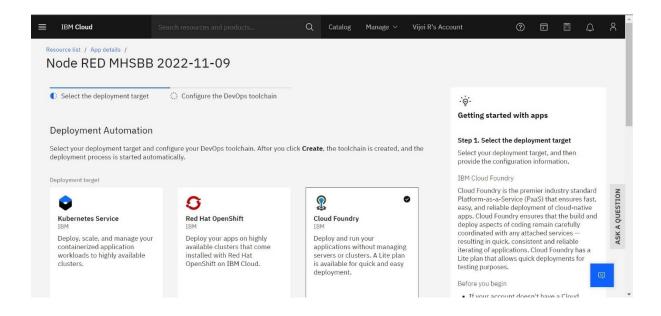
**STEP 3:** Enter the app name, location and select the plan and click on create:



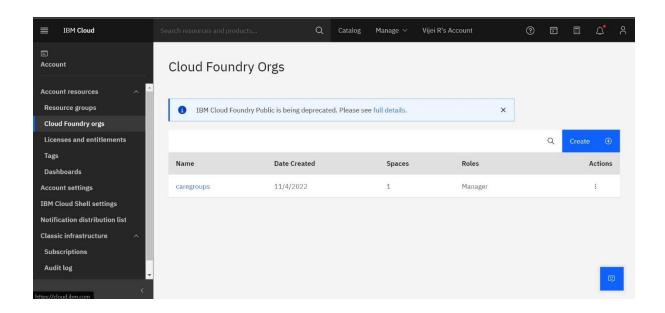
STEP 4: click on deploy your app button:

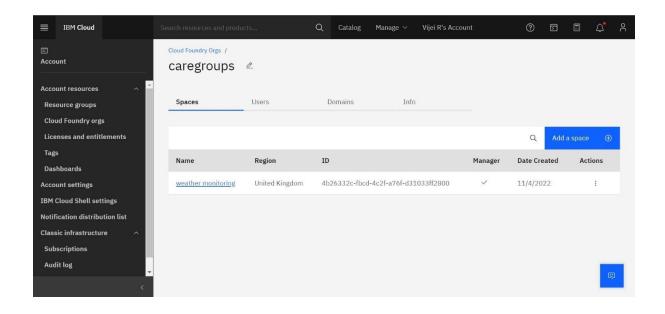


**STEP 5:** In deployment automation select cloud foundry and click on create.org:

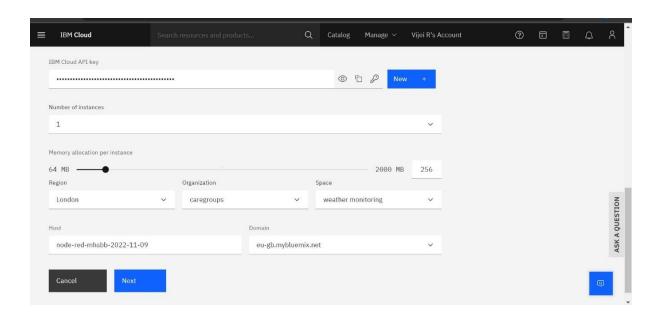


### STEP 6: click on create button and enter the name and create a space:

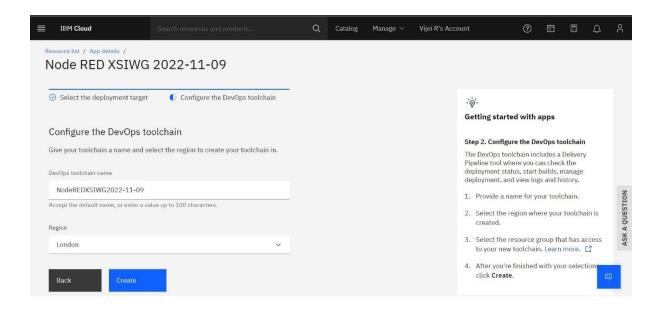




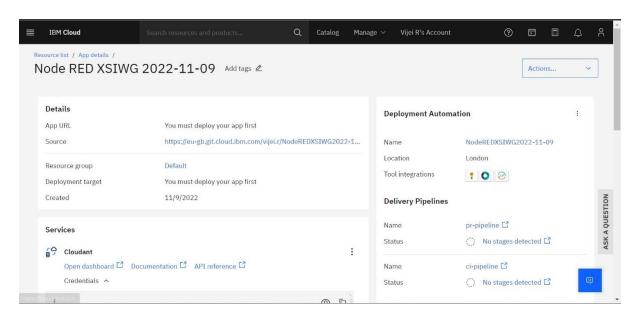
# **STEP 7:** In app development click new on api key and select region and click next:



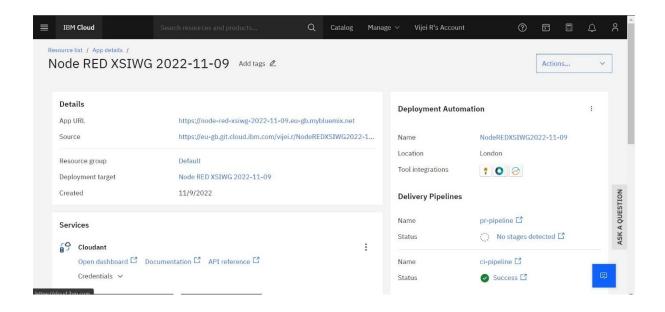
## **STEP 8:** select the region and click create:



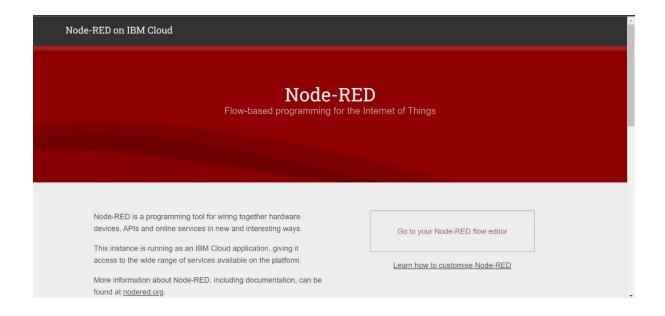
STEP 9: Wait till you get the success in ci-pipeline and app URL is generated:



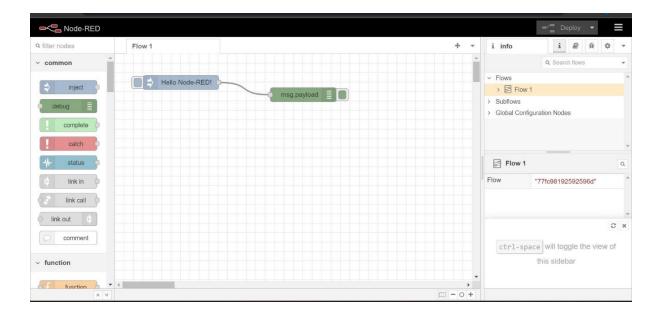
STEP 10: Now click on the generated APP URL:



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

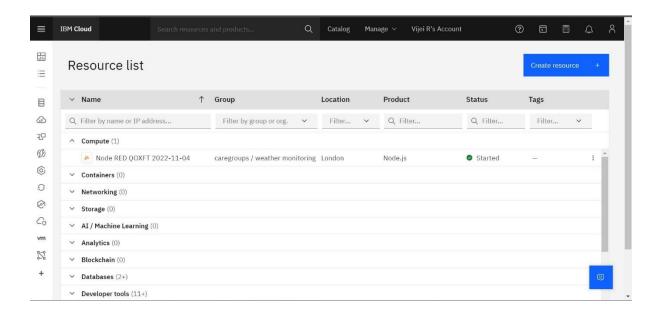


**STEP 12:** Click on node-red flow editor and you will be redirected to your node-red workspace:

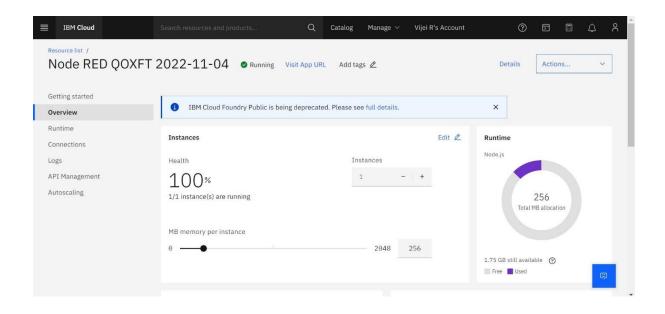


#### **DIRECTING TO CREATED NODE-RED WORKSPACE**

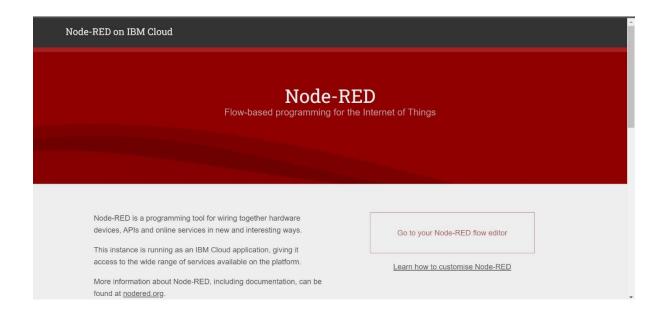
**STEP 13:** In resource select compute and click on node-red:



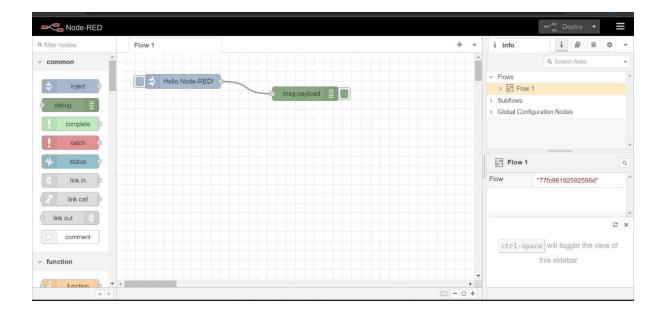
**STEP 14:** click on visit app URL to be redirected to node red:



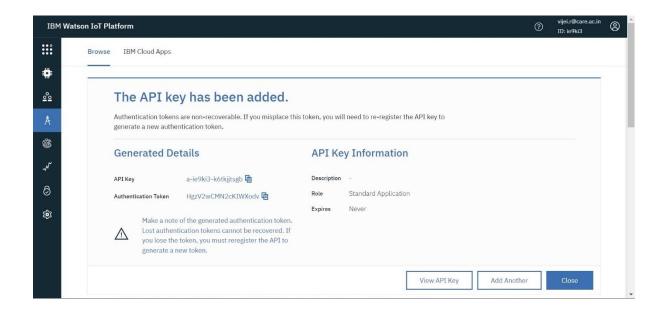
**STEP 15:** Click on go to your NODE-RED flow editor button:



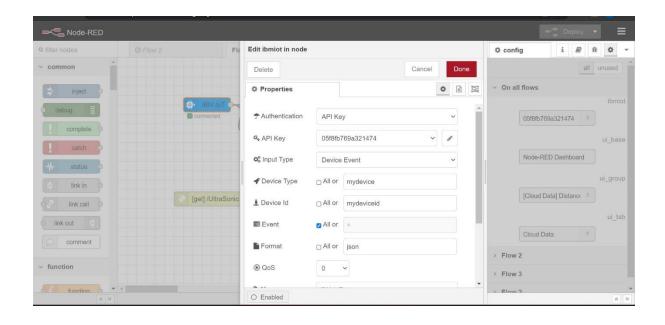
**STEP 16:** You will be redirected to the node red flow editor:



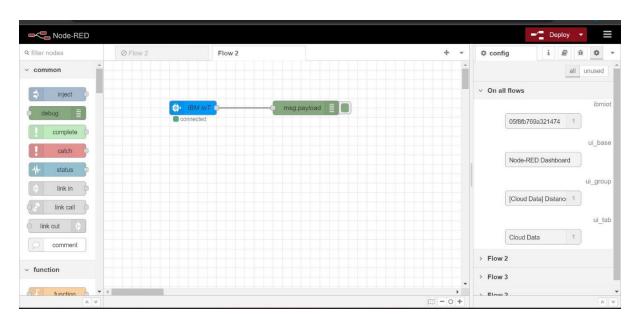
## **STEP 17:** Generating API key and Authentication token:



STEP 18: Edit IBM IOT in node:



**STEP 19:** Connect IBM IOT 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):

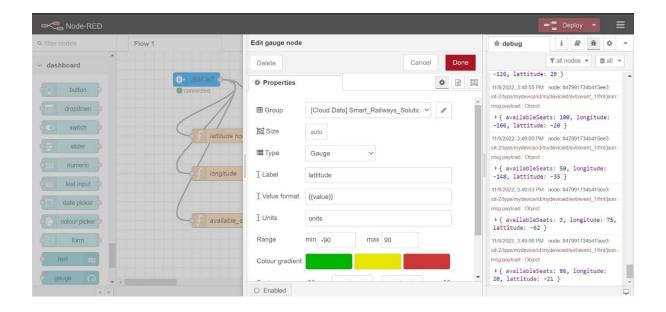


FIG 1

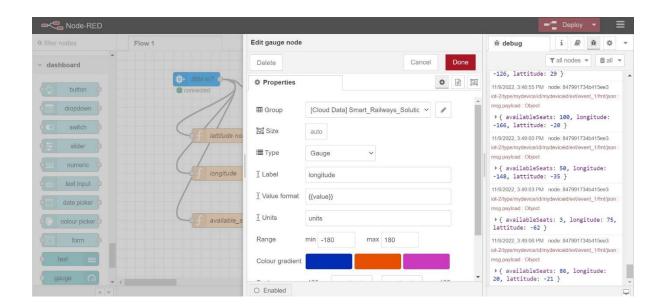


FIG 2

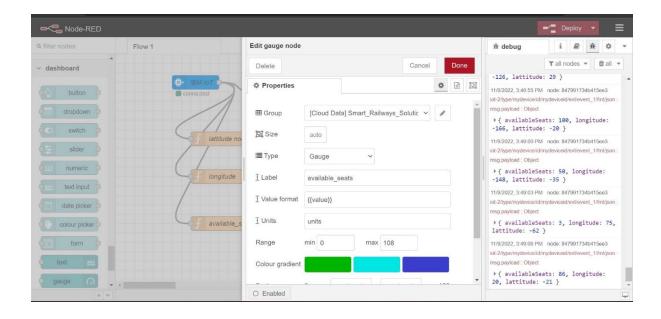


FIG 3

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

