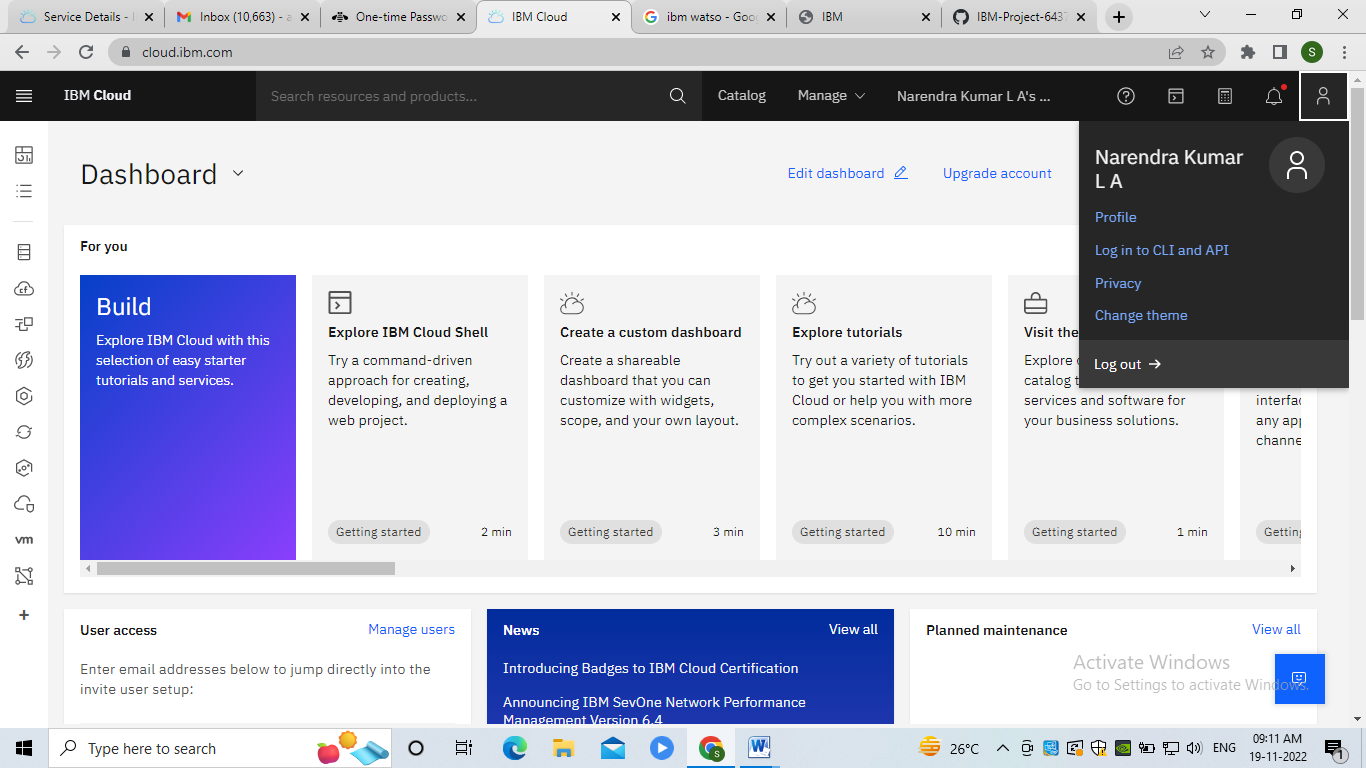
|  |  |
| --- | --- |
| Date | 05 November 2022 |
| Team ID | PNT2022TMID33708 |
| Project Name | SMART SOLUTIONS FOR RAILWAYS |

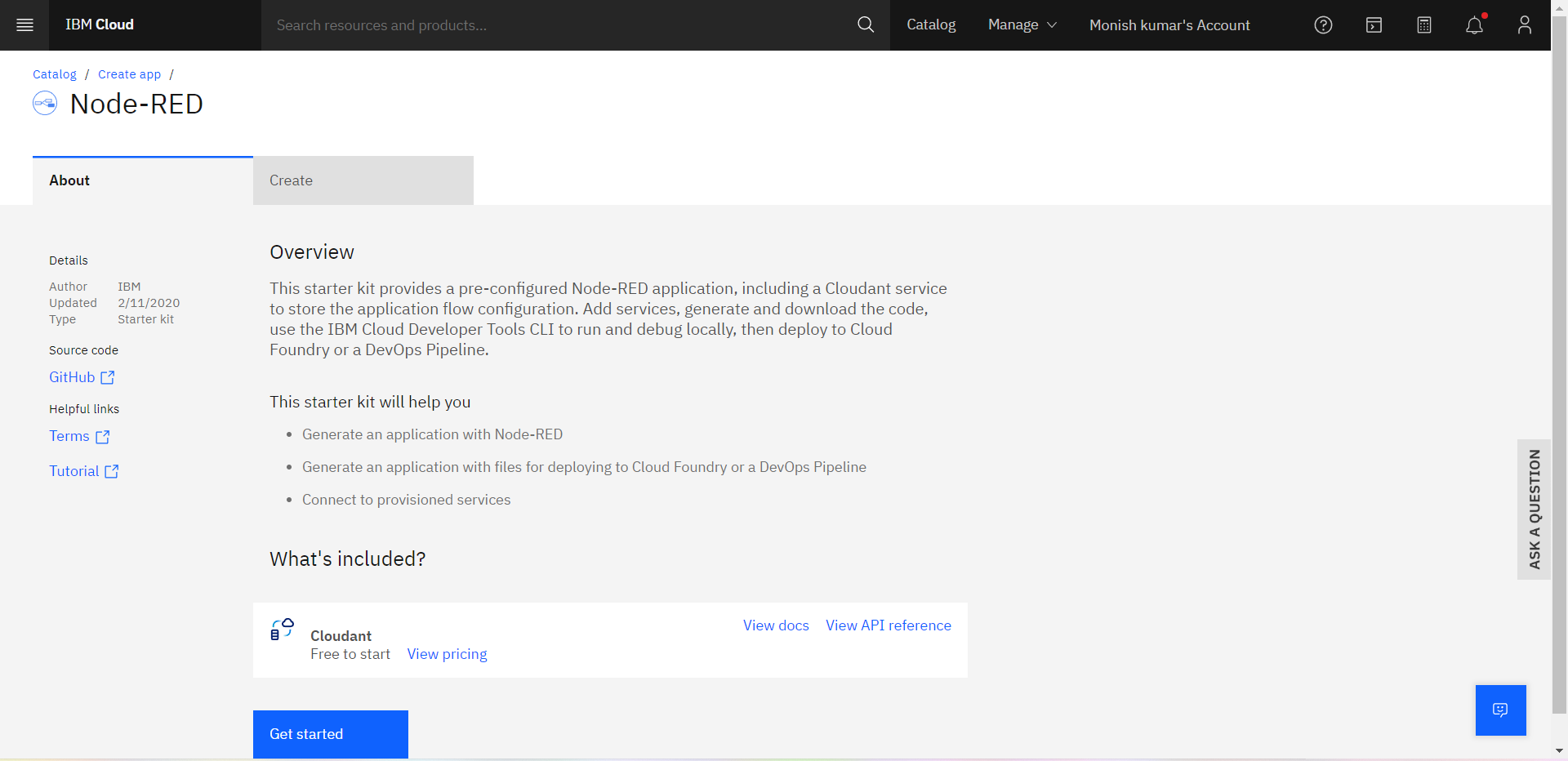
# Create and Configure Node-Red service

**CREATING NODE-RED IN IBM CLOUD**

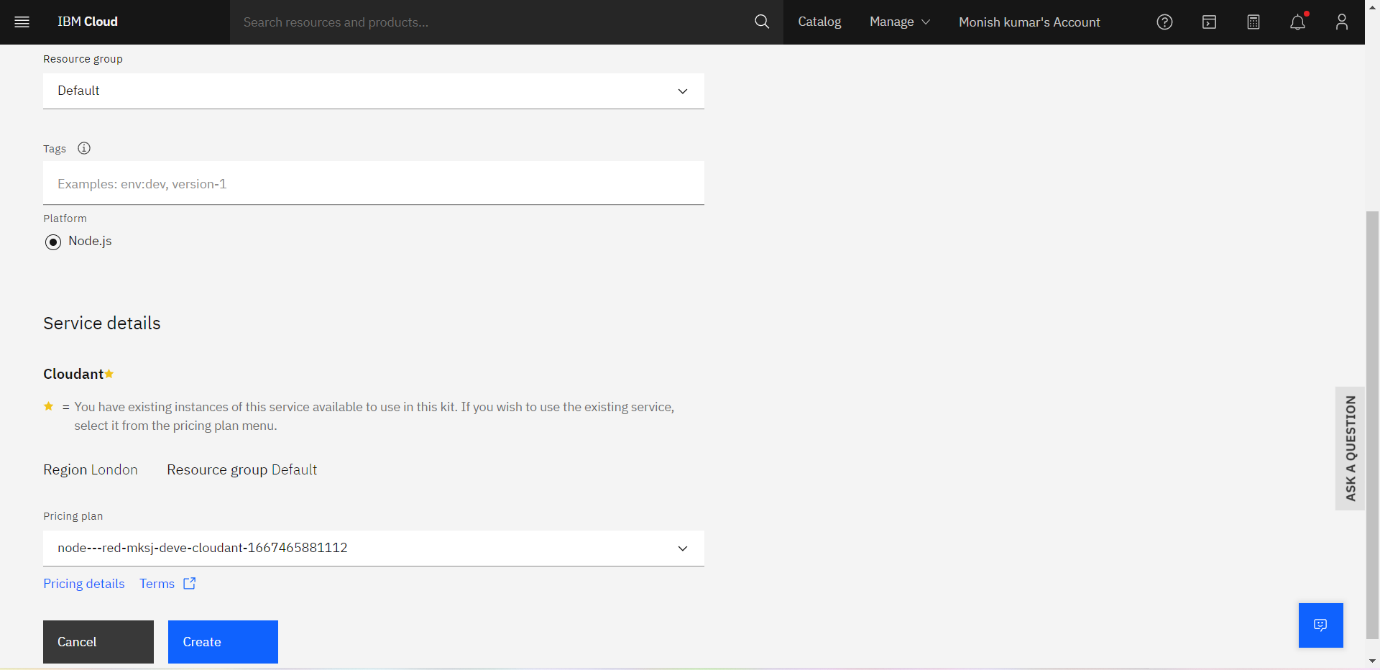
**STEP 1:** Open ibm cloud:



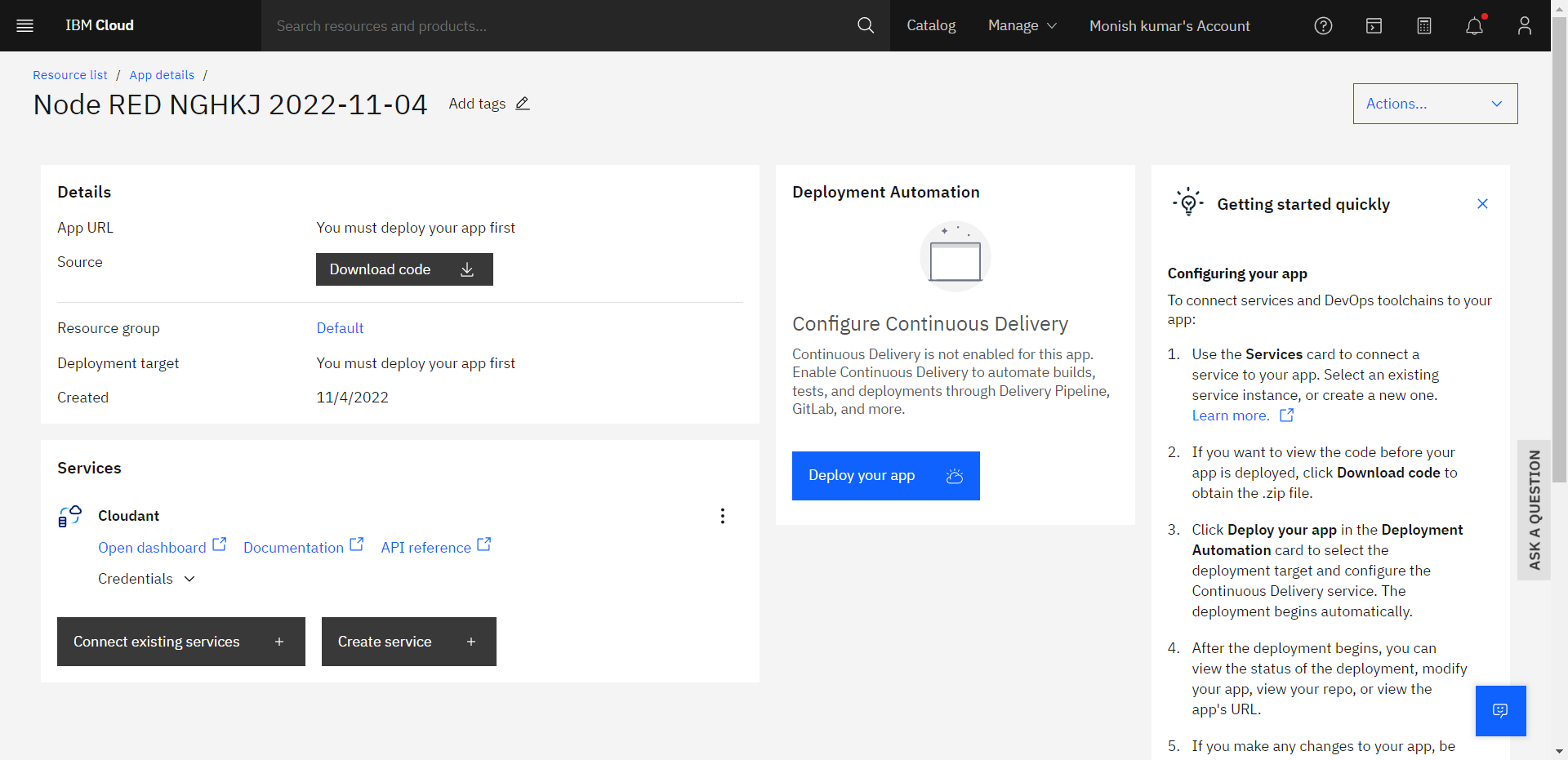
**STEP 2:** Go to catalog and search for node red app and open it:



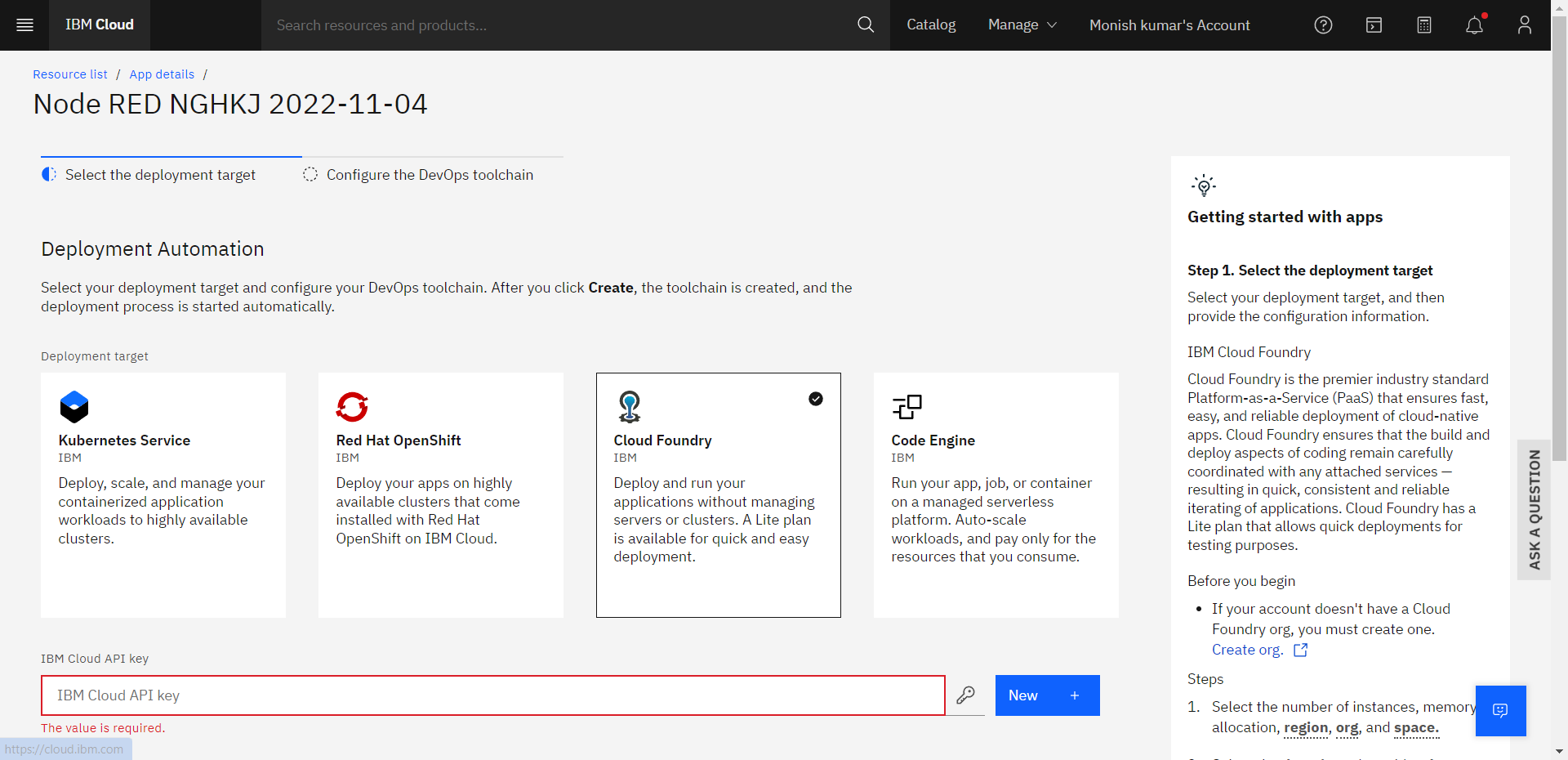
**STEP 3:** Enter the app name, location and select the plan and click on create.:



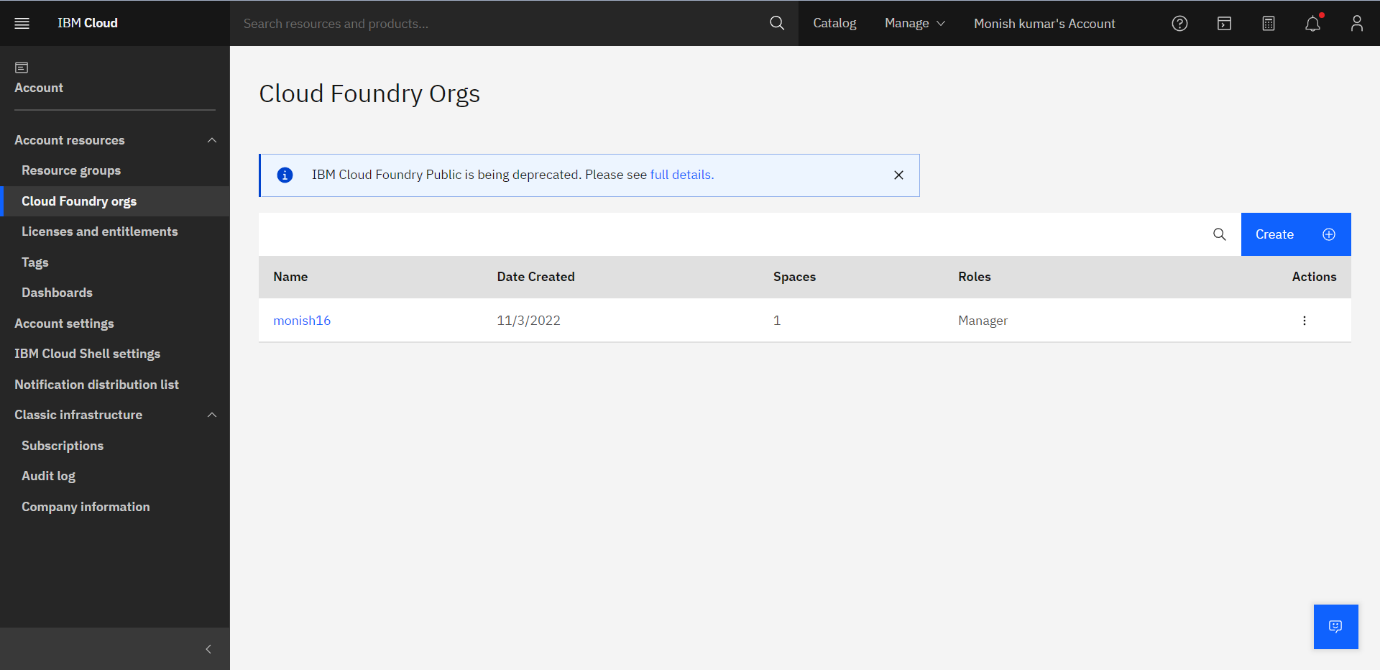
**STEP 4:** click on deploy your app button:



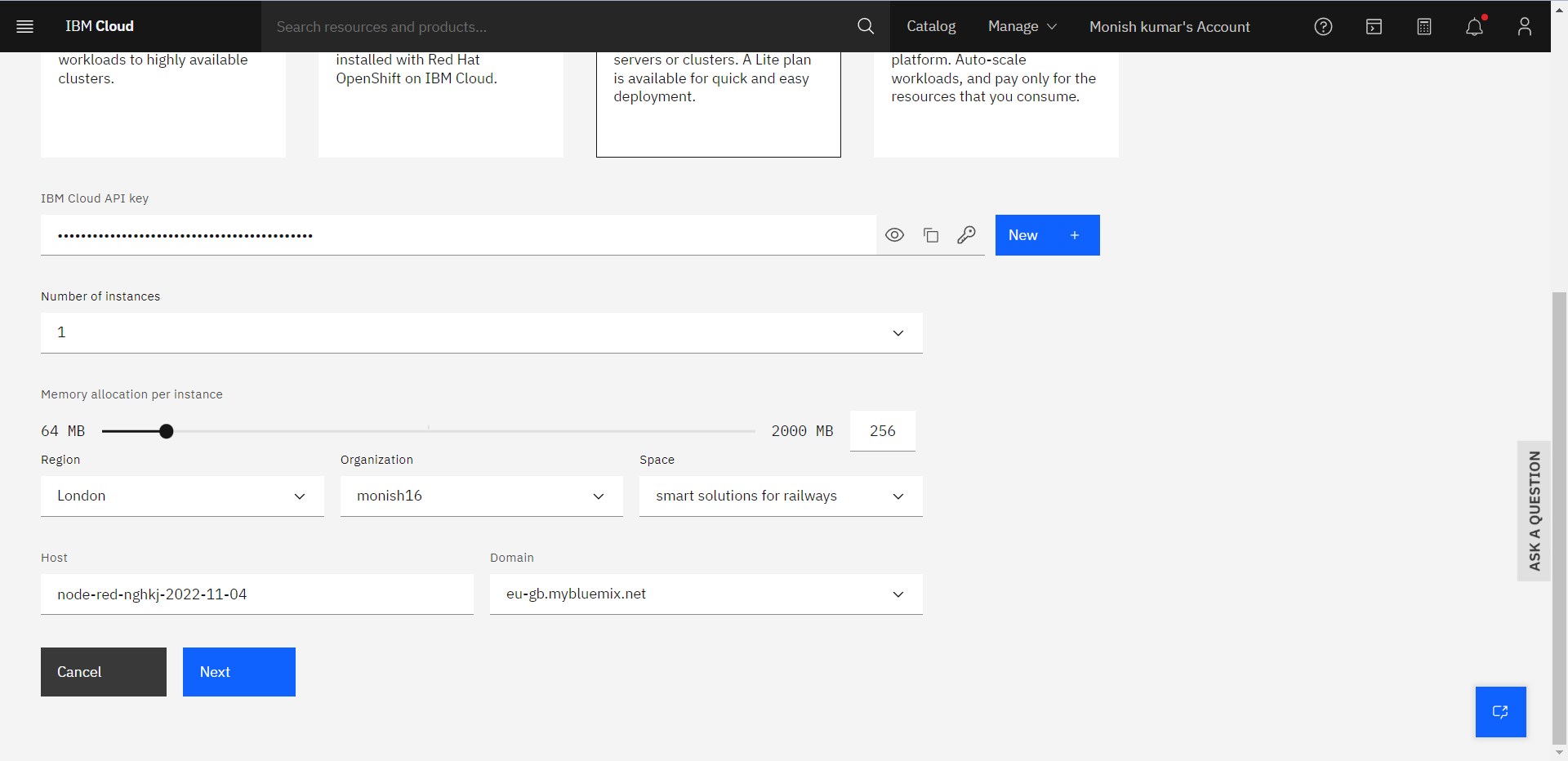
**STEP 5:** In deployment automation select cloud foundry and click on create.org:



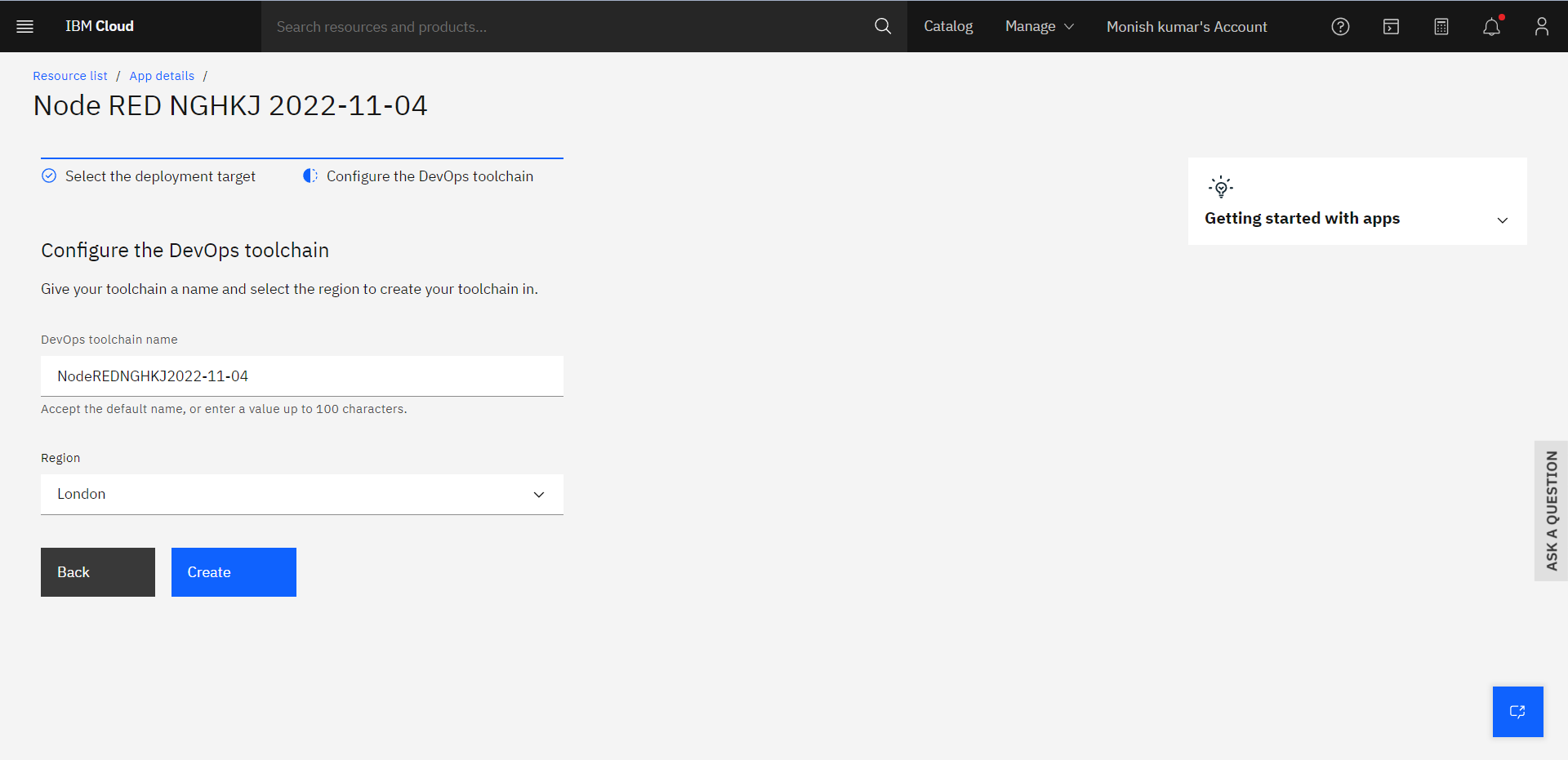
**STEP 6:** click on create button and enter the name and create a space:



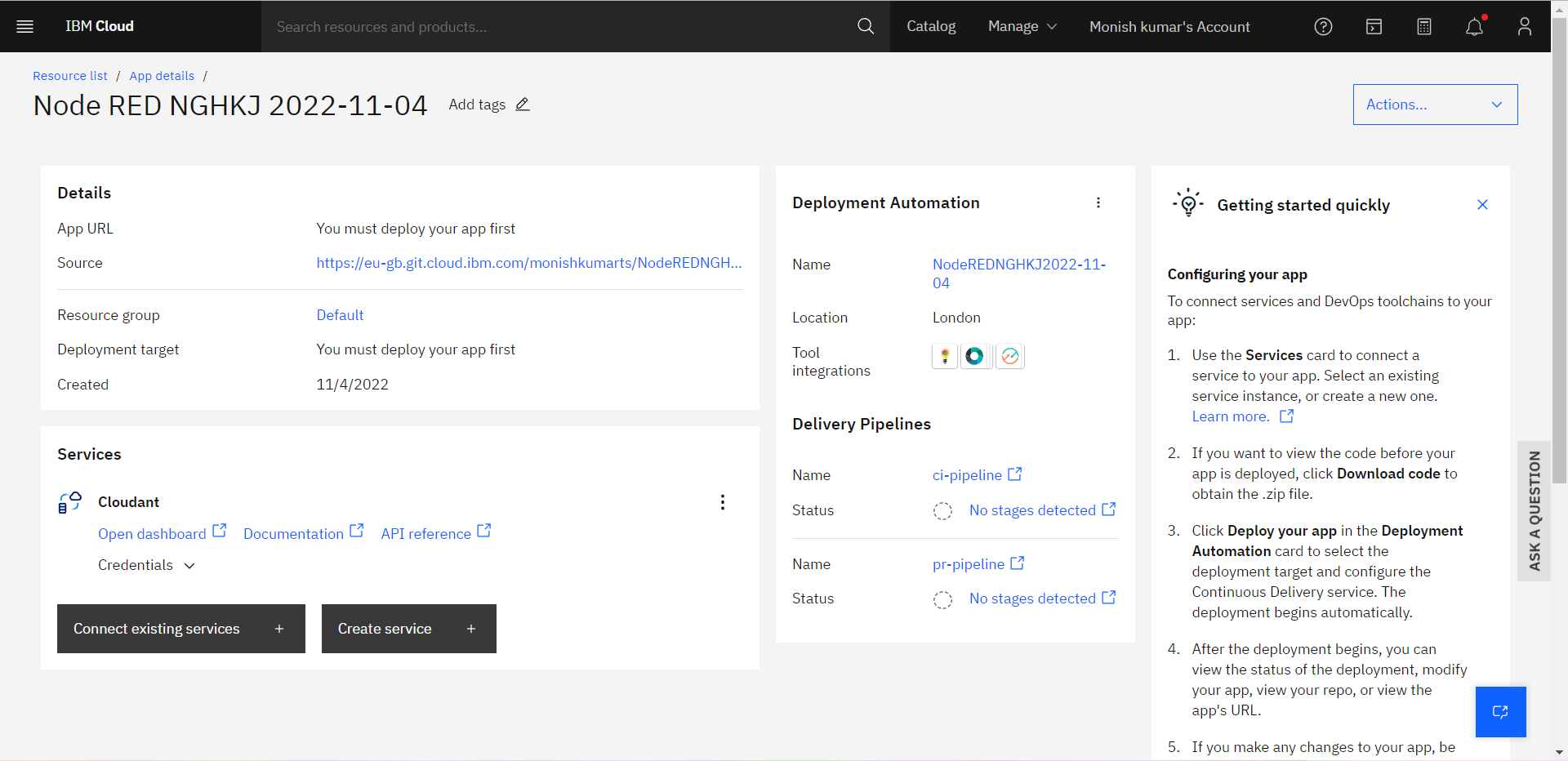
**STEP 7:** In app development click new on api key and select region and click next:



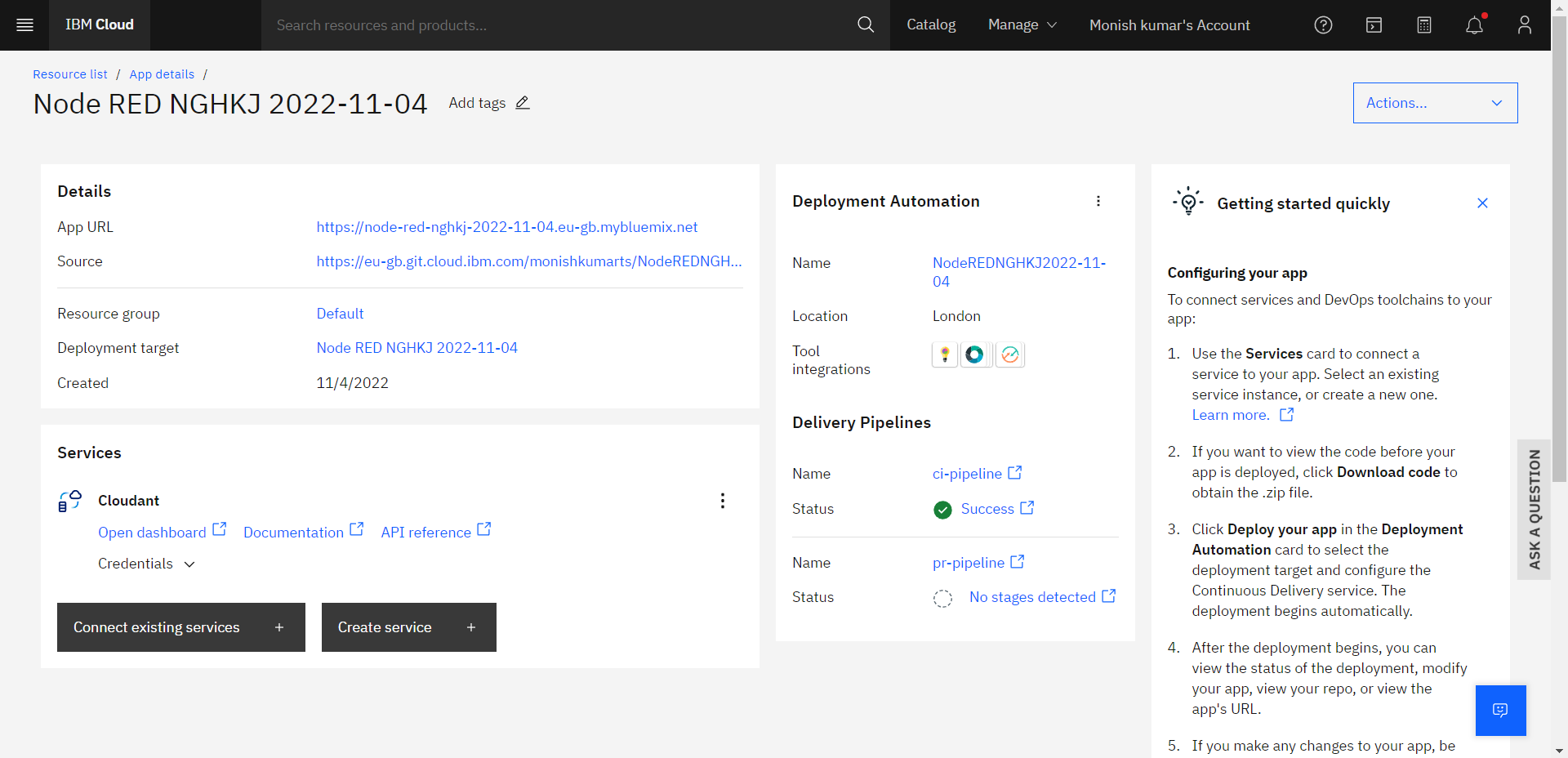
**STEP 8:** select the region and click create:



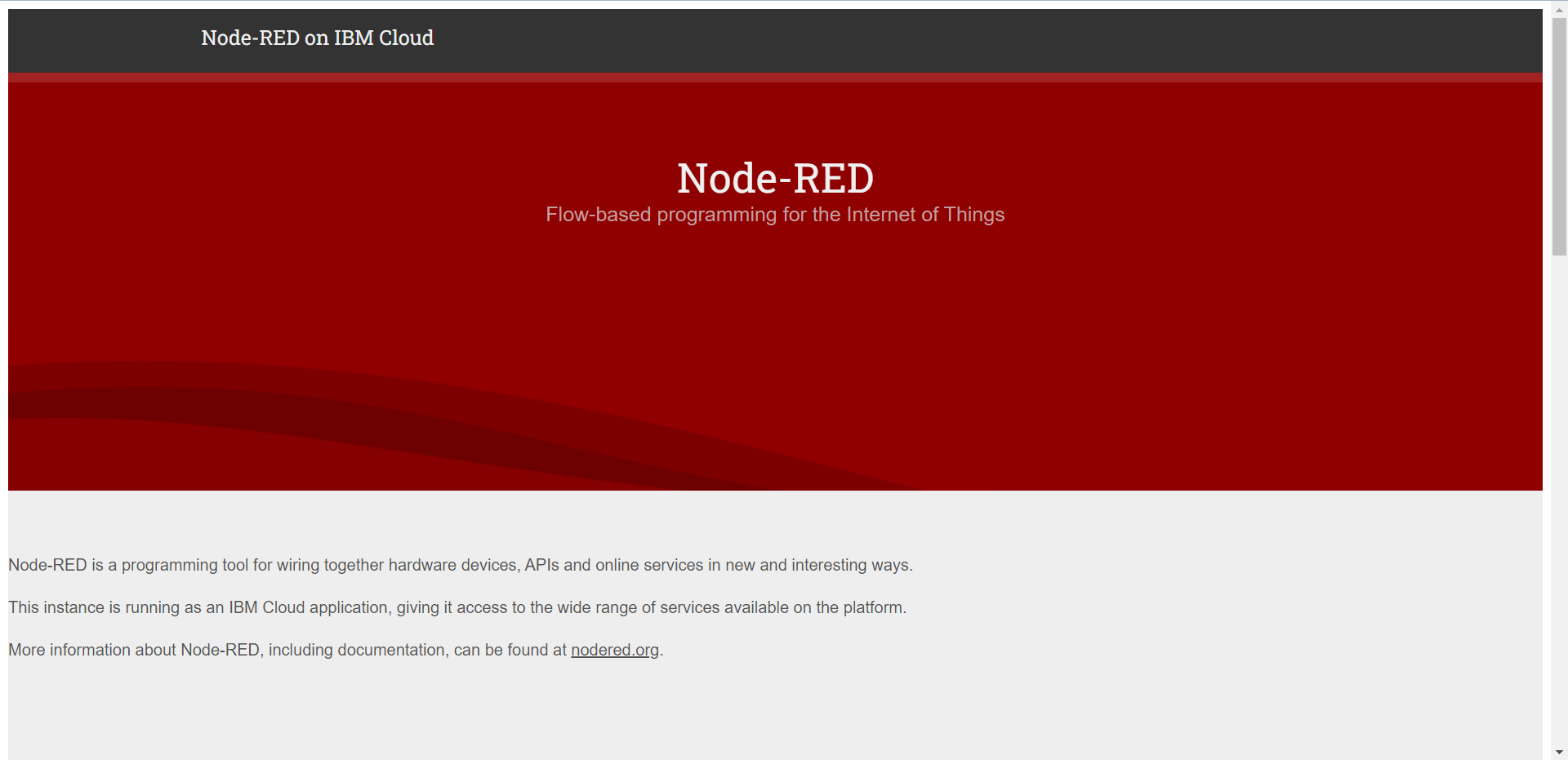
**STEP 9:** Wait till you get the success in ci-pipeline and app URL is generated:



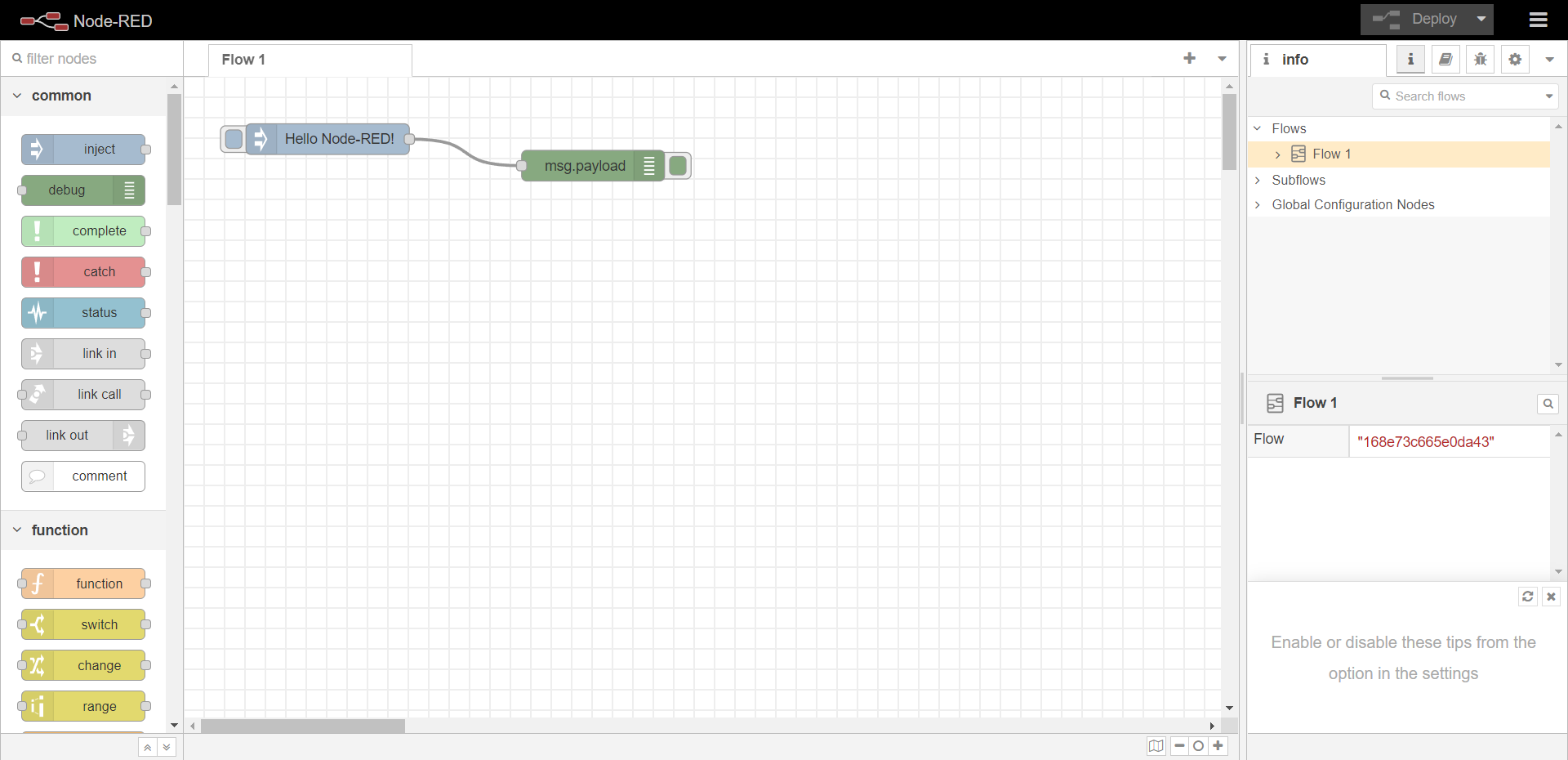
**STEP 10:** Now click on the generated APP URL:



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

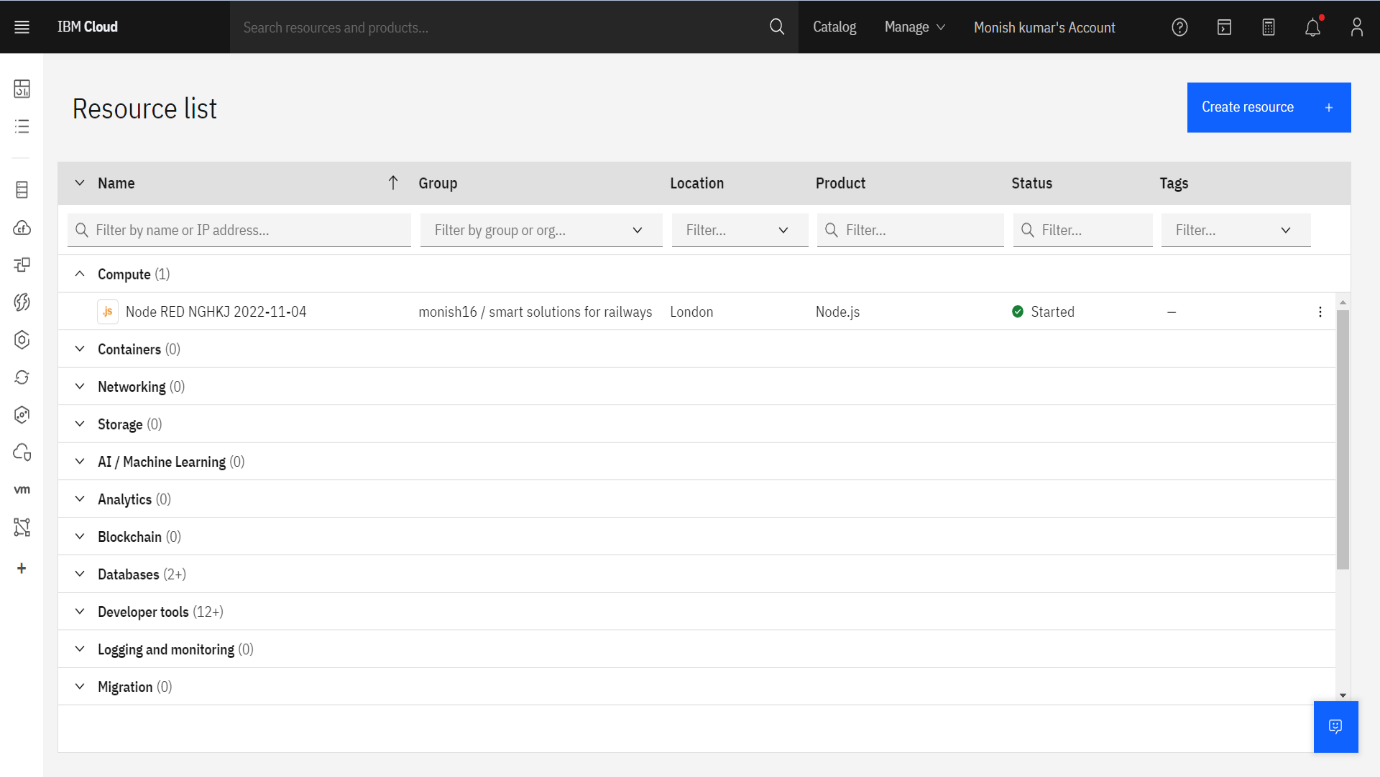
****

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

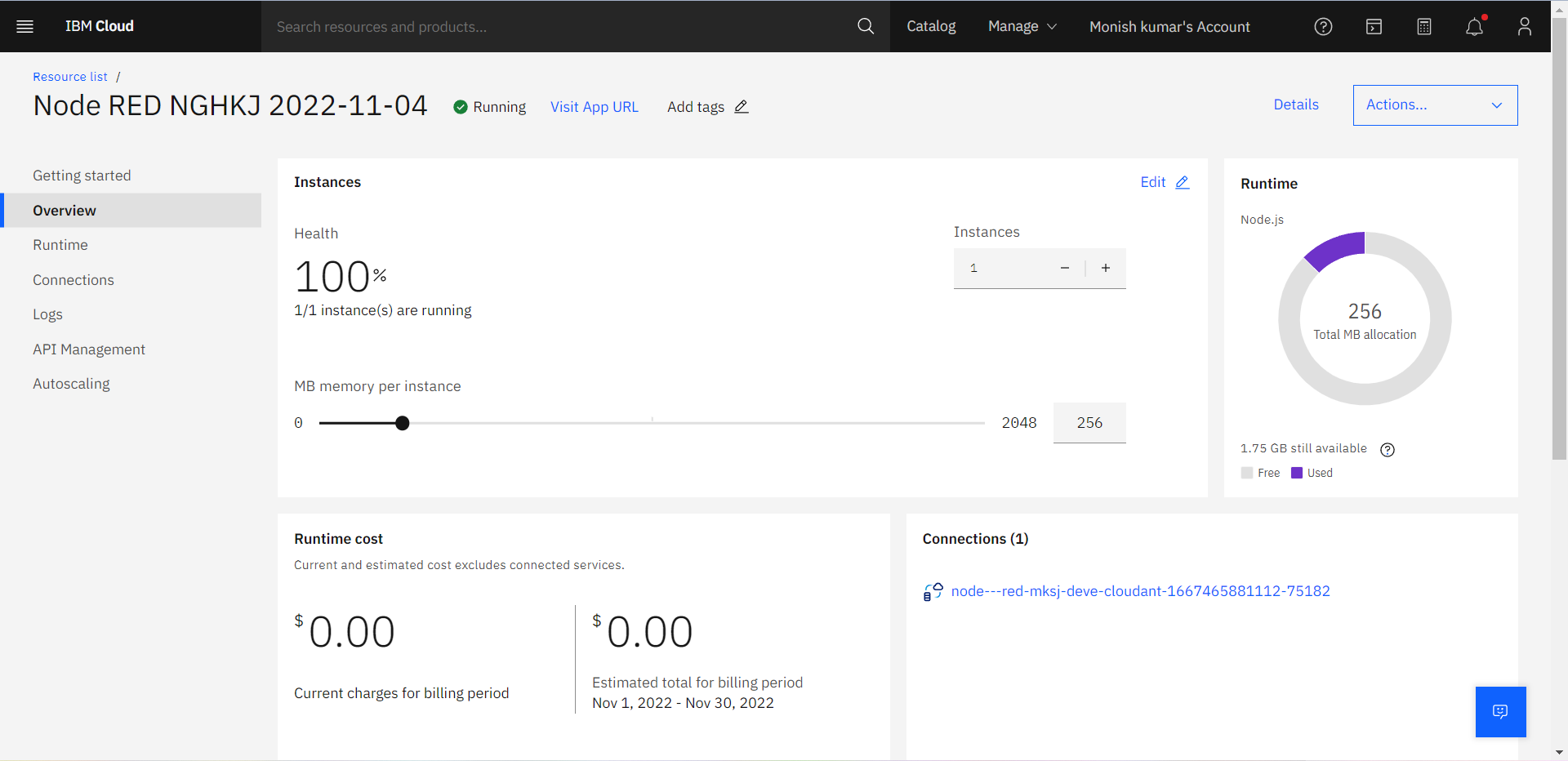


**DIRECTING TO CREATED NODE-RED WORKSPACE**

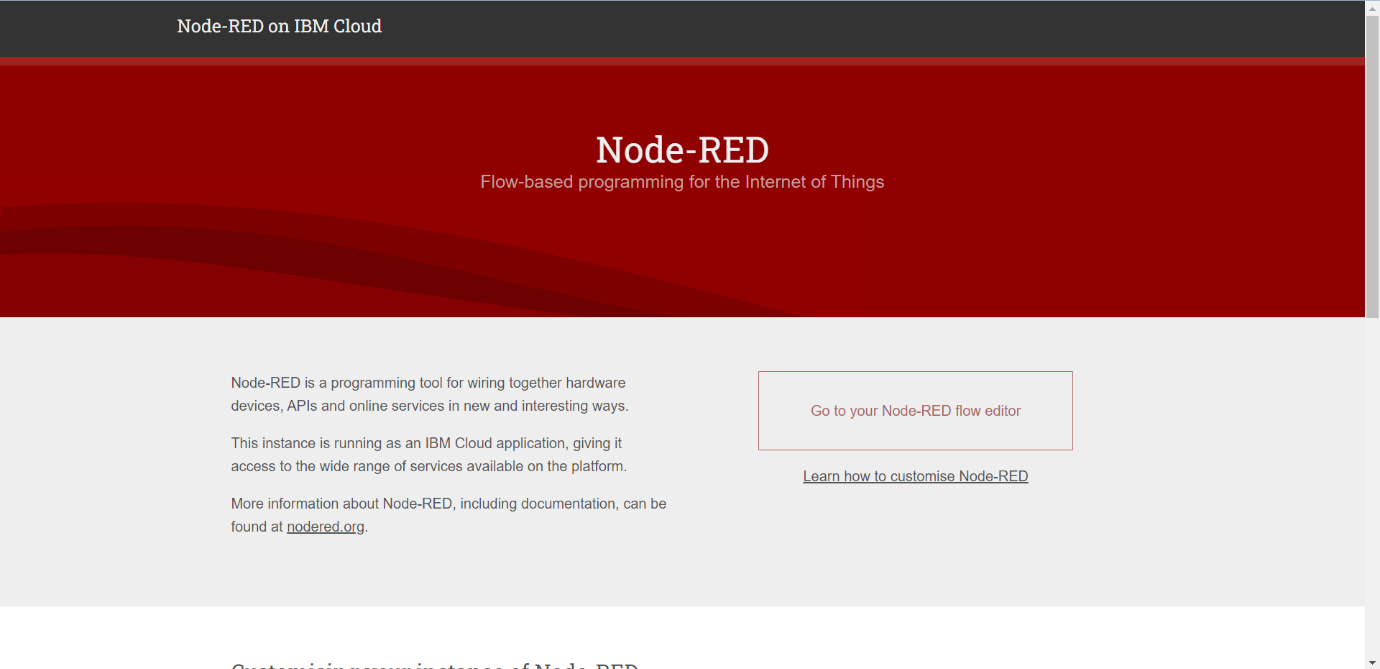
**STEP 13:** In resource select compute and click on node-red :



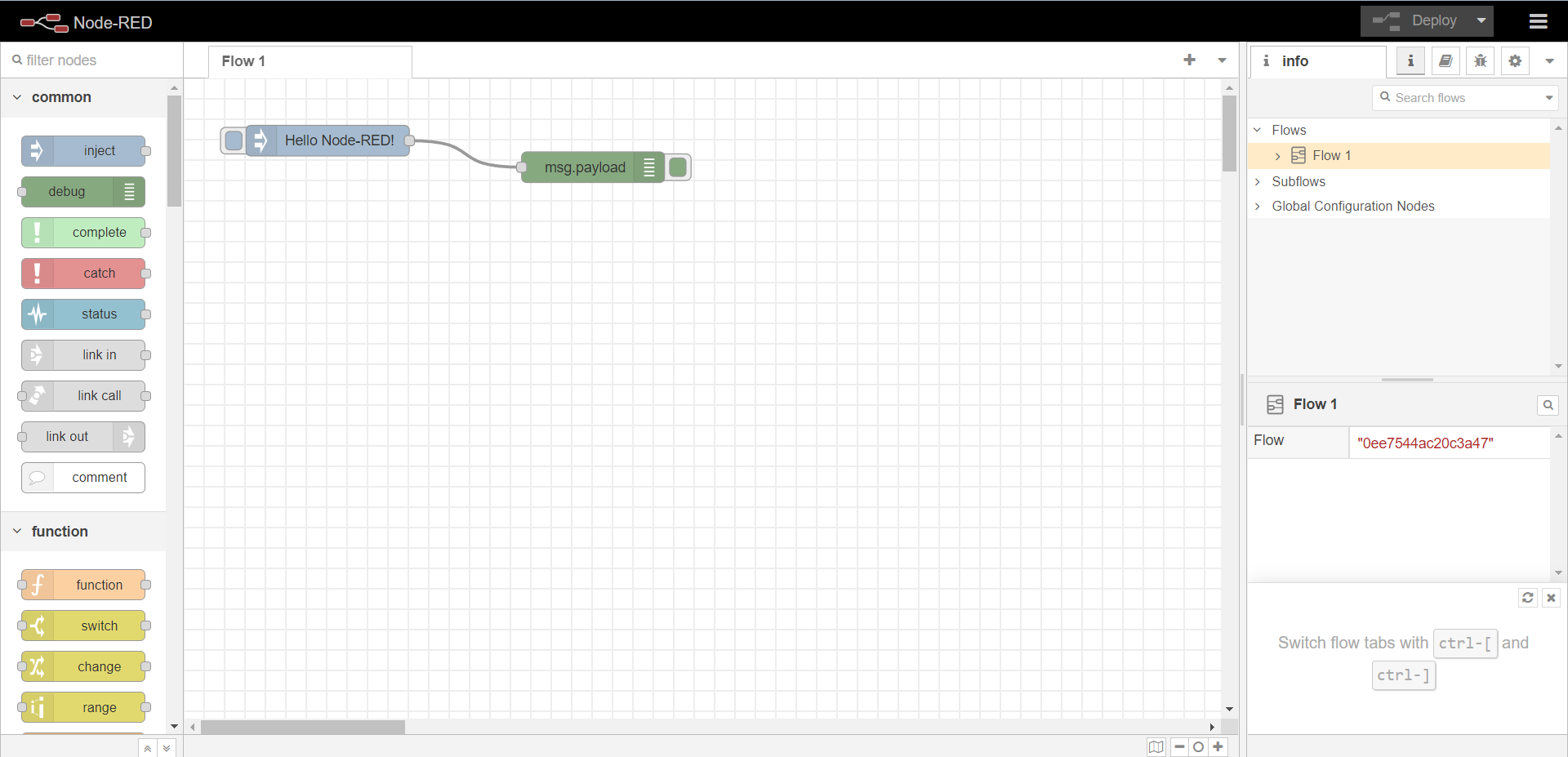
**STEP 14:** click on visit app url to be redirected to node red:



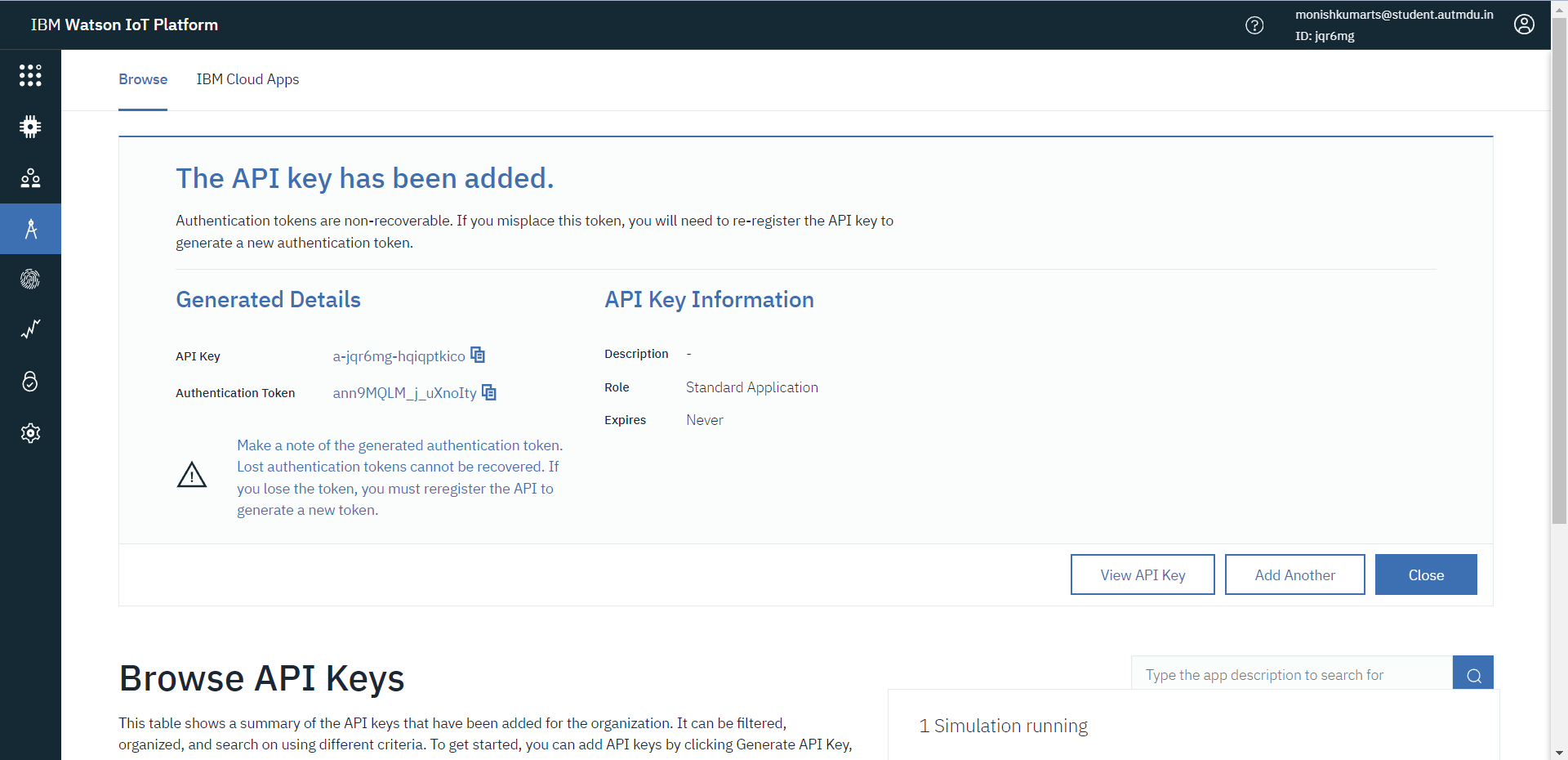
**STEP 15:** Click on go to your NODE-RED flow editor button:



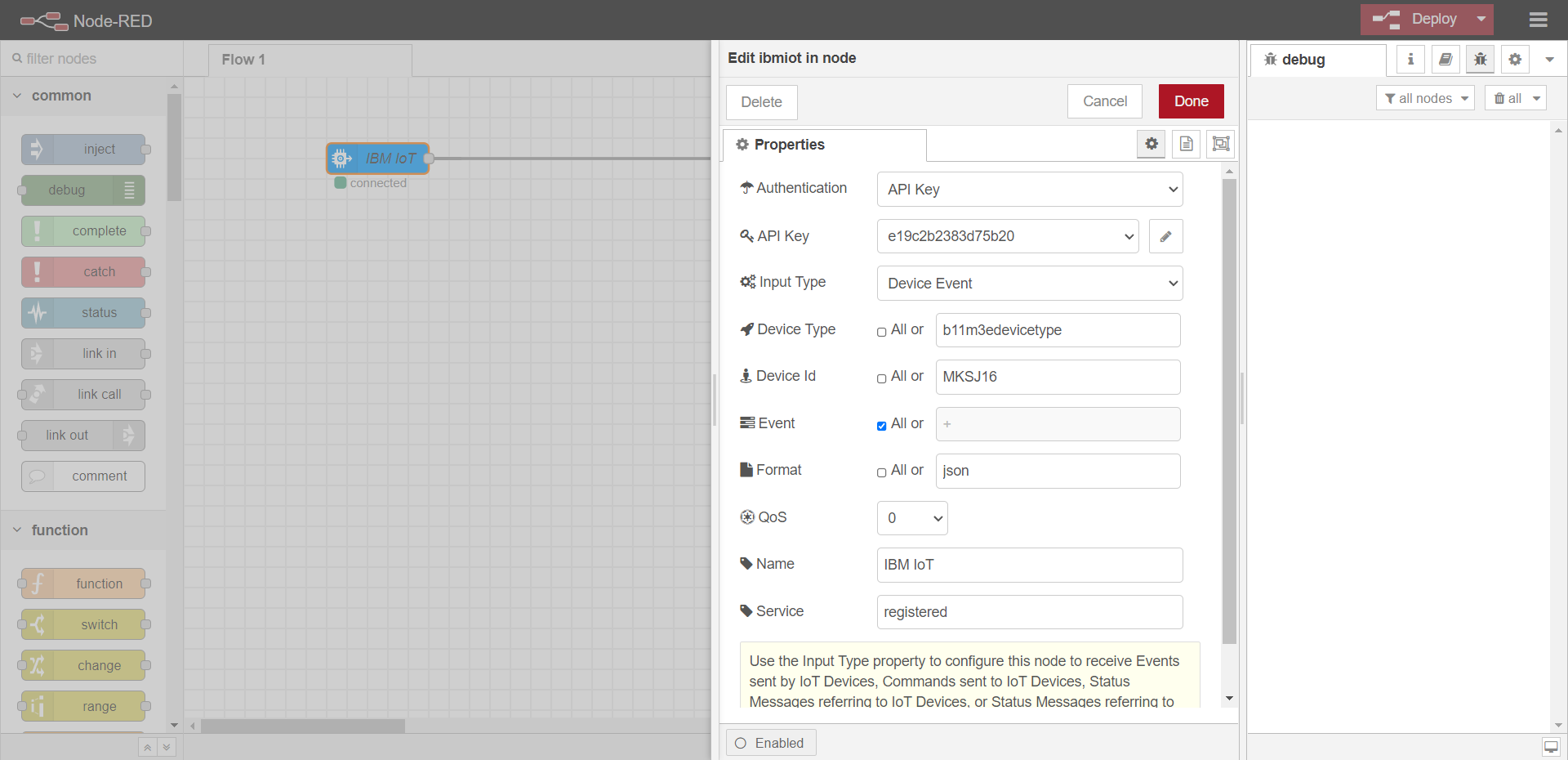
**STEP 16:** You will be redirected to the node red flow editor:



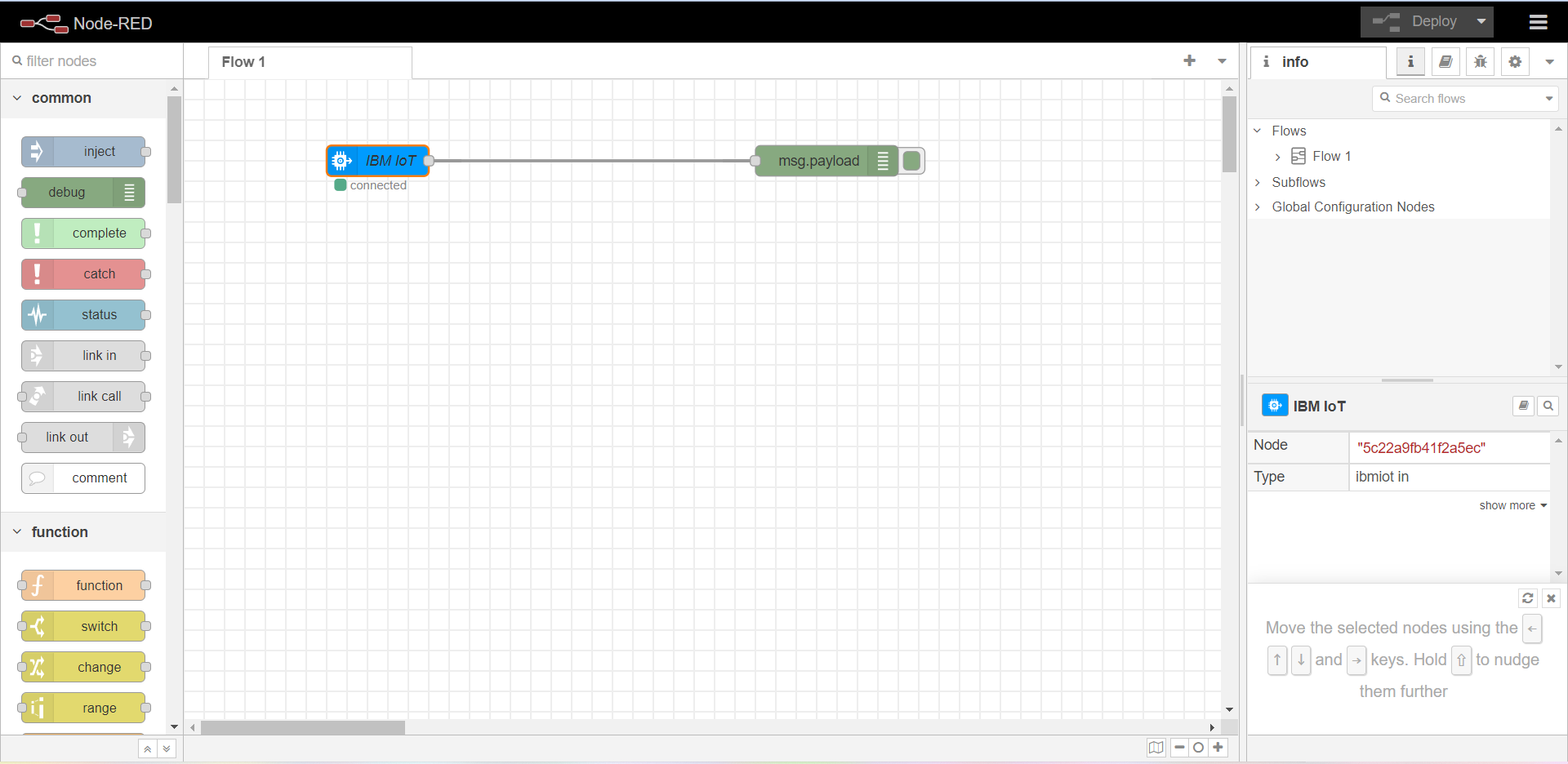
**STEP 17:** Generating API key and Authentication token:



**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):

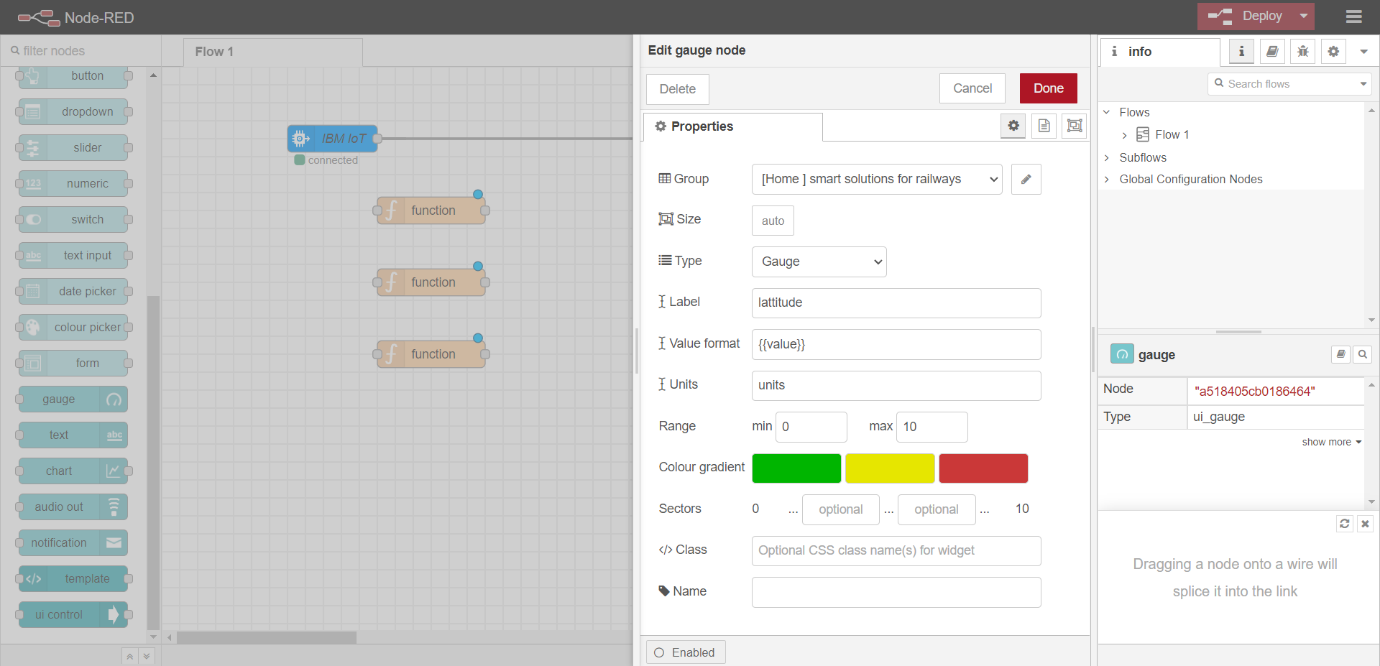


FIG 1

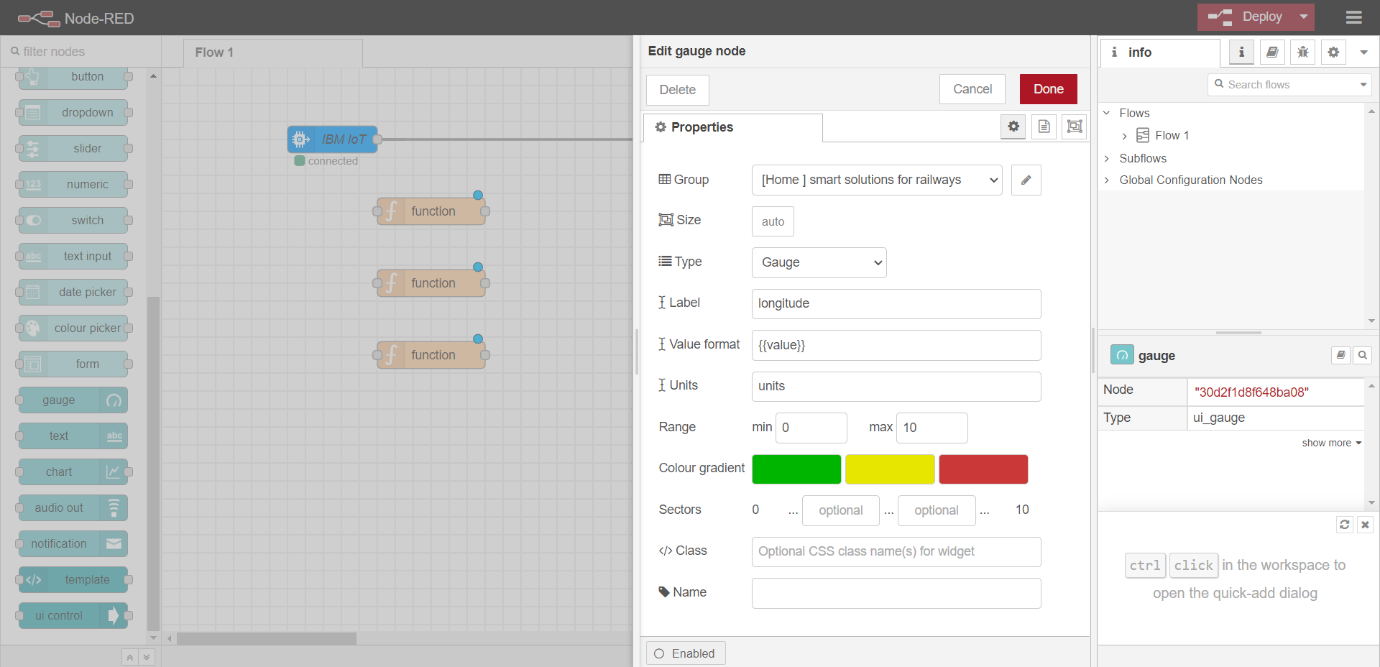


FIG 2

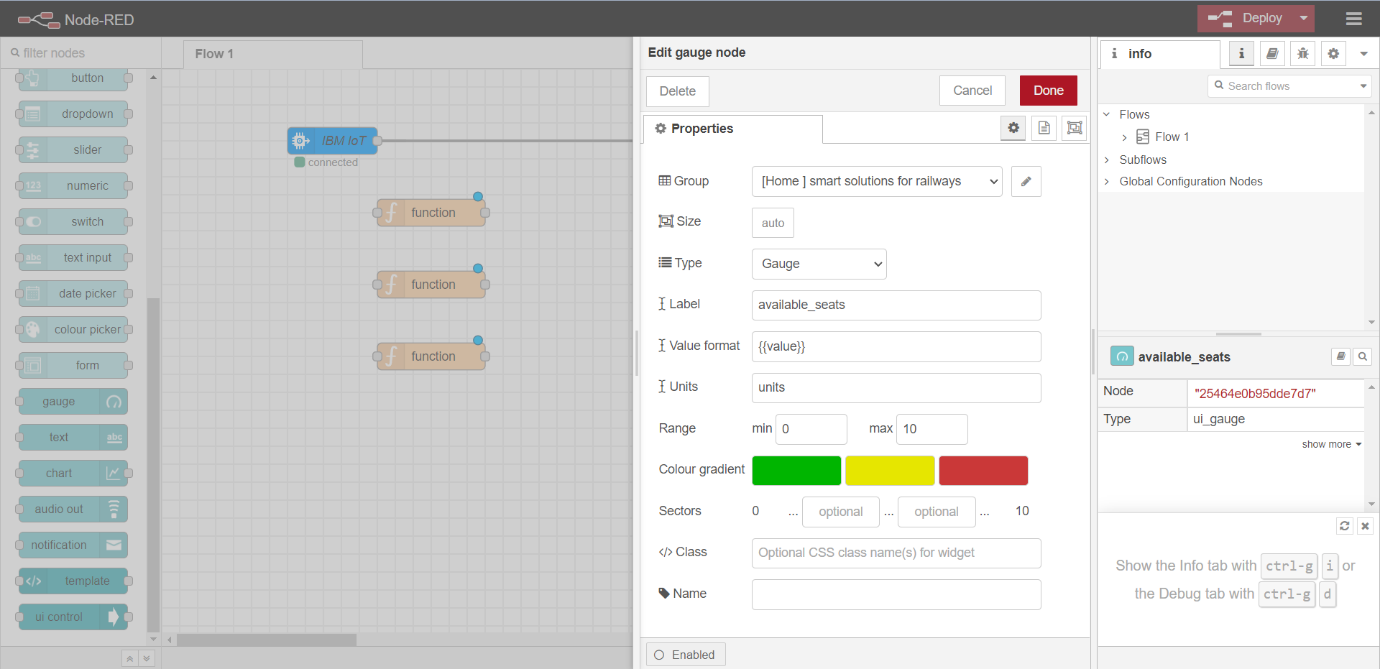


FIG 3

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

