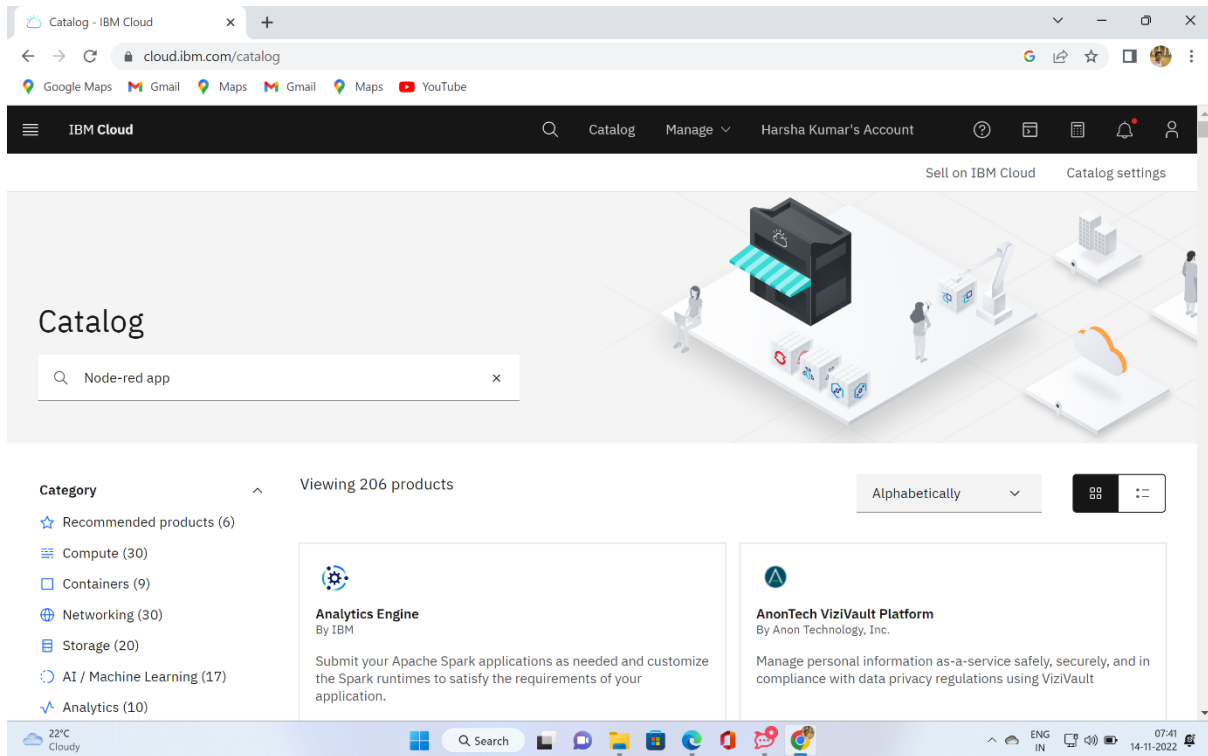


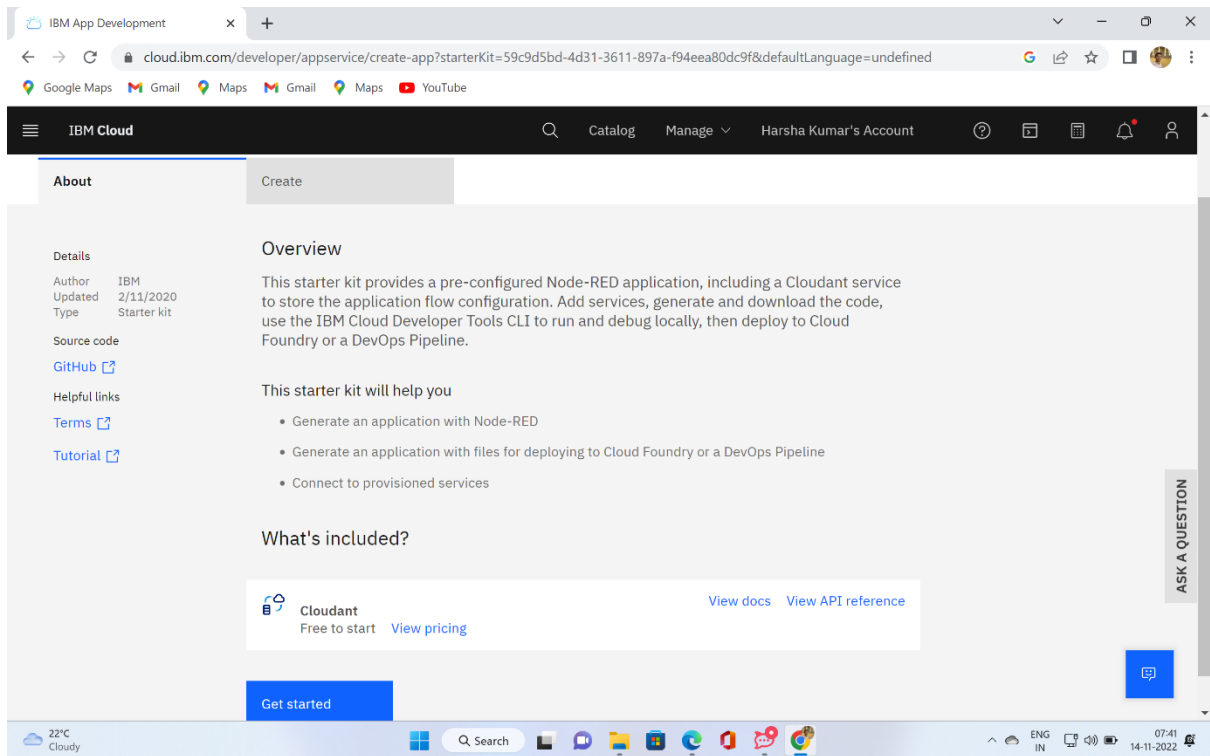
Creating A Node-Red APP

Team ID	PNT2022TMID08469
Project Name	Smart Farmer-IOT Enabled Smart Farming Application

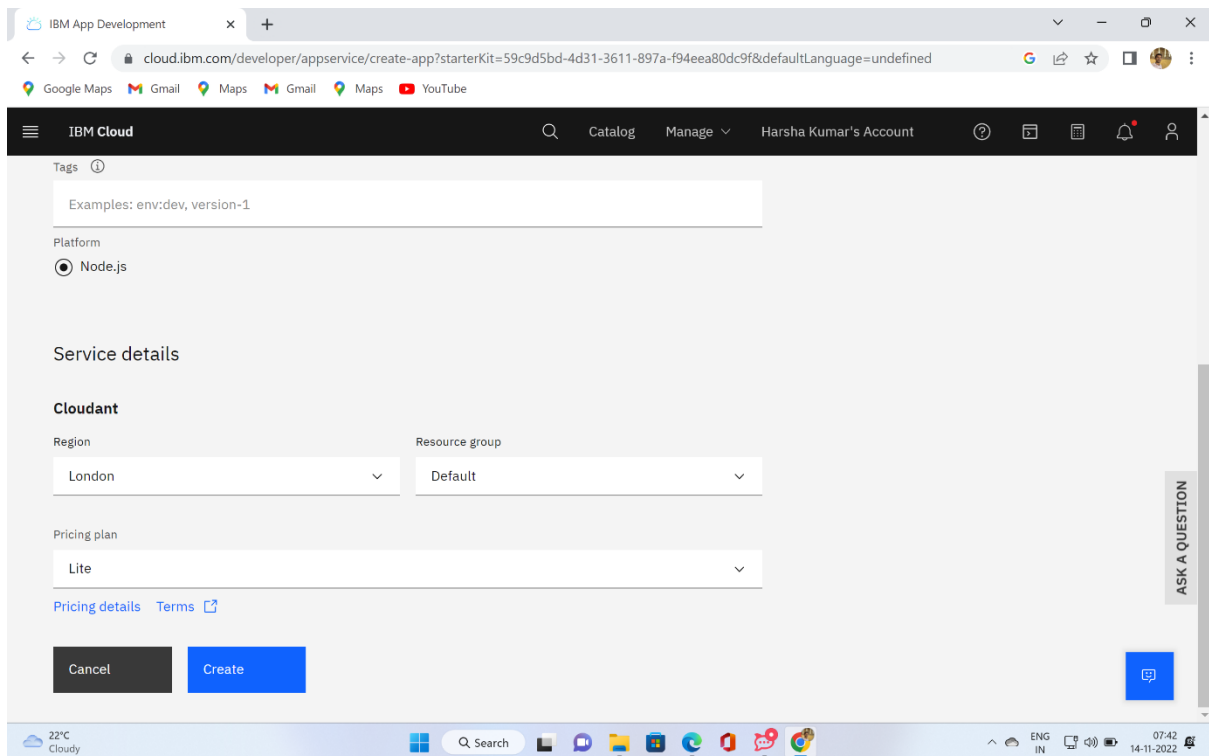
First login into IBM cloud and click the Catalog button.



Type in search bar node-red and click the Get started.



Now click the Create button



Create the deploy your app

IBM App Development

cloud.ibm.com/developer/appservice/apps/db4a3171-4122-4da3-a4f5-c2de2eb84a42

IBM Cloud

Resource list / App details / Node RED EHFQ 2022-11-14

Details

App URL: You must deploy your app first

Source: [Download code](#)

Resource group: Default

Deployment target: You must deploy your app first

Created: 11/14/2022

Services

Cloudant

[Open dashboard](#) [Documentation](#) [API reference](#)

Credentials

Connect existing services + Create service +

Deployment Automation

Configure Continuous Delivery

Continuous Delivery is not enabled for this app. Enable Continuous Delivery to automate builds, tests, and deployments through Delivery Pipeline, GitLab, and more.

[Deploy your app](#)

Now select the cloud Foundry and create org.

IBM App Development

cloud.ibm.com/developer/appservice/apps/db4a3171-4122-4da3-a4f5-c2de2eb84a42

IBM Cloud

Select the deployment target

Deployment Automation

Select your deployment target and configure your DevOps toolchain. After you click **Create**, the toolchain is created, and the deployment process is started automatically.

Deployment target

Kubernetes Service

Red Hat OpenShift

Cloud Foundry

Code Engine

Getting started with apps

Step 1. Select the deployment target

Select your deployment target, and then provide the configuration information.

IBM Cloud Foundry

Cloud Foundry is the premier industry standard Platform-as-a-Service (PaaS) that ensures fast, easy, and reliable deployment of cloud-native apps. Cloud Foundry ensures that the build and deploy aspects of coding remain carefully coordinated with any attached services — resulting in quick, consistent and reliable iterating of applications. Cloud Foundry has a Lite plan that allows quick deployments for testing purposes.

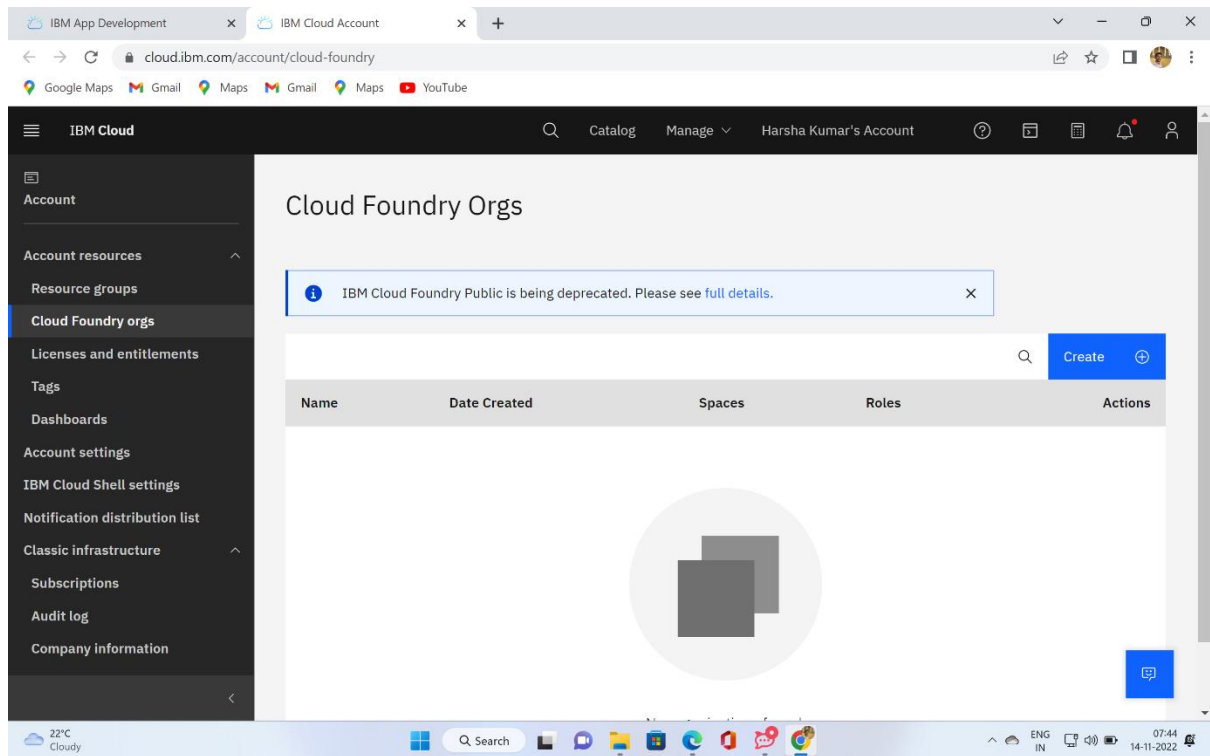
Before you begin

- If your account doesn't have a Cloud Foundry org, you must create one. [Create org](#)

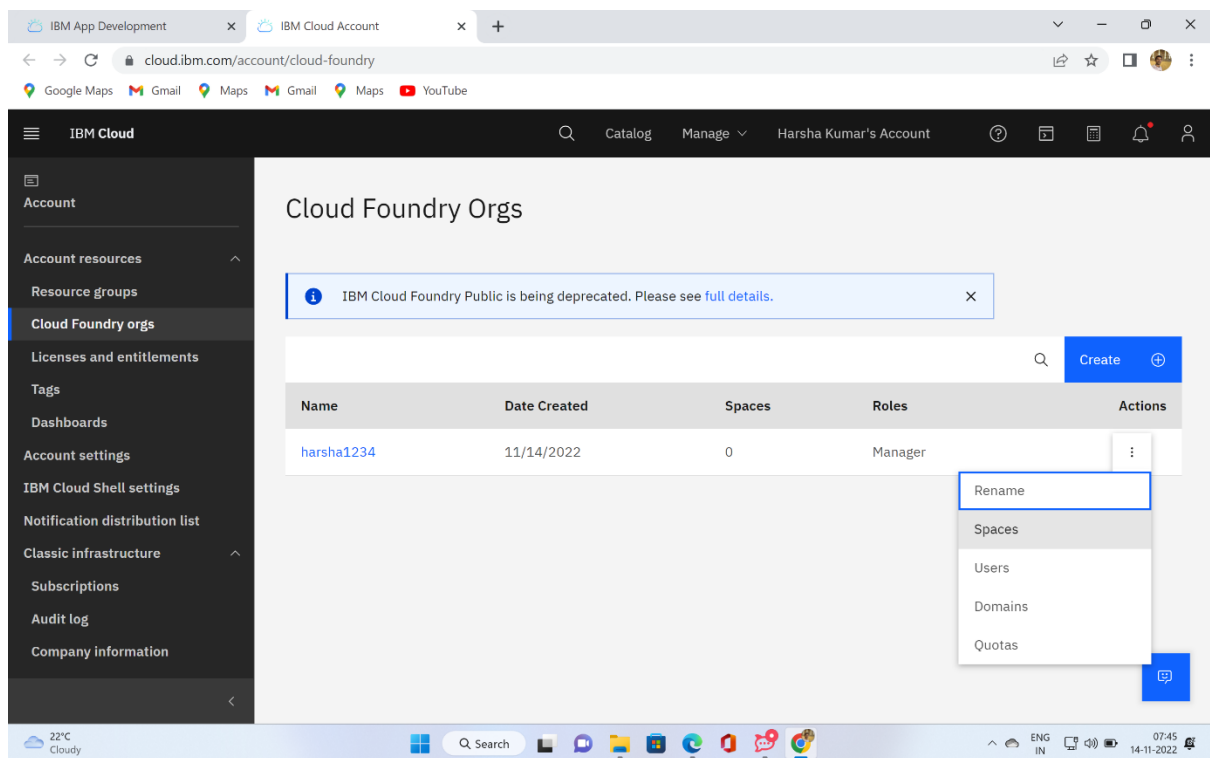
Steps

- Select the number of instances, memory allocation, region, org, and space.

Now we have to create the organization name and region.



Now create the spaces in cloud foundry orgs.



Now we added the spaces

The screenshot shows the IBM Cloud Account page for user 'harsha1234'. The left sidebar contains navigation links: Account, Account resources, Resource groups, Cloud Foundry orgs (selected), Licenses and entitlements, Tags, Dashboards, Account settings, IBM Cloud Shell settings, Notification distribution list, Classic infrastructure, Subscriptions, Audit log, and Company information. The main content area is titled 'Cloud Foundry Orgs / harsha1234' and has tabs for Spaces, Users, Domains, and Info. The 'Spaces' tab is active, displaying a table with one space named 'kumar1234' in the 'United Kingdom' region, with ID '4b6897bc-28db-4a9f-9111-3c81481264f8'. The table also shows the Manager as a checkmark, Date Created as '11/14/2022', and an Actions column. An 'Add a space' button is in the top right of the table area. The bottom of the screen shows a Windows taskbar with the date '14-11-2022' and time '07:46'.

Name	Region	ID	Manager	Date Created	Actions
kumar1234	United Kingdom	4b6897bc-28db-4a9f-9111-3c81481264f8	✓	11/14/2022	⋮

Now we need to create IBM Cloud API key

The screenshot shows the IBM Cloud developer page for creating an API key. The top navigation bar includes 'IBM Cloud', 'Catalog', 'Manage', and 'Harsha Kumar's Account'. Below the navigation bar, there are two cards: 'Cloud Foundry' and 'Code Engine'. A notification banner states 'IBM Cloud Foundry Public is deprecated.' with a 'Learn more' link. The main section is titled 'IBM Cloud API key' and contains a text input field with a masked key '.....', a 'New' button, and a 'Number of instances' dropdown set to '1'. The bottom of the screen shows a Windows taskbar with the date '14-11-2022' and time '07:46'.

Now select the region and organization and space and click next.

IBM Cloud Foundry Public is deprecated. [Learn more](#)

IBM Cloud API key
..... [New](#) +

Number of instances
1

Memory allocation per instance
64 MB ————— 2000 MB 256

Region: London Organization: harsha1234 Space: kumar1234

Host: node-red-eihfq-2022-11-14 Domain: eu-gb.mybluemix.net

[Cancel](#) [Next](#)

Now select the region and click create

Resource list / App details /
Node RED EIHQ 2022-11-14

[Select the deployment target](#) [Configure the DevOps toolchain](#)

Configure the DevOps toolchain
Give your toolchain a name and select the region to create your toolchain in.

DevOps toolchain name
NodeREDEIHFQ2022-11-14
Accept the default name, or enter a value up to 100 characters.

Region
London

[Back](#) [Create](#)

Getting started with apps

Now we have to wait 30 minutes the ci-pipeline status going to success

IBM App Development x IBM Cloud Account x +

cloud.ibm.com/developer/appservice/apps/db4a3171-4122-4da3-a4f5-c2de2eb84a42

Google Maps Gmail Maps Gmail Maps YouTube

IBM Cloud Catalog Manage Harsha Kumar's Account

Resource list / App details / Node RED EIHQ 2022-11-14 Add tags Actions...

Details

App URL You must deploy your app first

Source <https://eu-gb.git.cloud.ibm.com/810419106006/NodeREDEIH...>

Resource group Default

Deployment target You must deploy your app first

Created 11/14/2022

Services

Cloudant

Open dashboard Documentation API reference

Credentials

Connect existing services + Create service +

Deployment Automation

Name NodeREDEIHFQ2022-11-14

Location London

Tool integrations

Delivery Pipelines

Name ci-pipeline

Status No stages detected

Name pr-pipeline

Status No stages detected

ASK A QUESTION

22°C Good air

Search

ENG IN 07:47 14-11-2022

Now it is going to create app URL

IBM App Development x ci-pipeline PipelineRun x IBM Cloud Account x New Tab x +

cloud.ibm.com/developer/appservice/apps/db4a3171-4122-4da3-a4f5-c2de2eb84a42

Google Maps Gmail Maps Gmail Maps YouTube

IBM Cloud Catalog Manage Harsha Kumar's Account

Resource list / App details / Node RED EIHQ 2022-11-14 Add tags Actions...

Details

App URL <https://node-red-eihq-2022-11-14.eu-gb.mybluemix.net>

Source <https://eu-gb.git.cloud.ibm.com/810419106006/NodeREDEIH...>

Resource group Default

Deployment target Node RED EIHQ 2022-11-14

Created 11/14/2022

Services

Cloudant

Open dashboard Documentation API reference

Credentials

Connect existing services + Create service +

Deployment Automation

Name NodeREDEIHFQ2022-11-14

Location London

Tool integrations

Delivery Pipelines

Name ci-pipeline

Status In progress

Name pr-pipeline

Status No stages detected

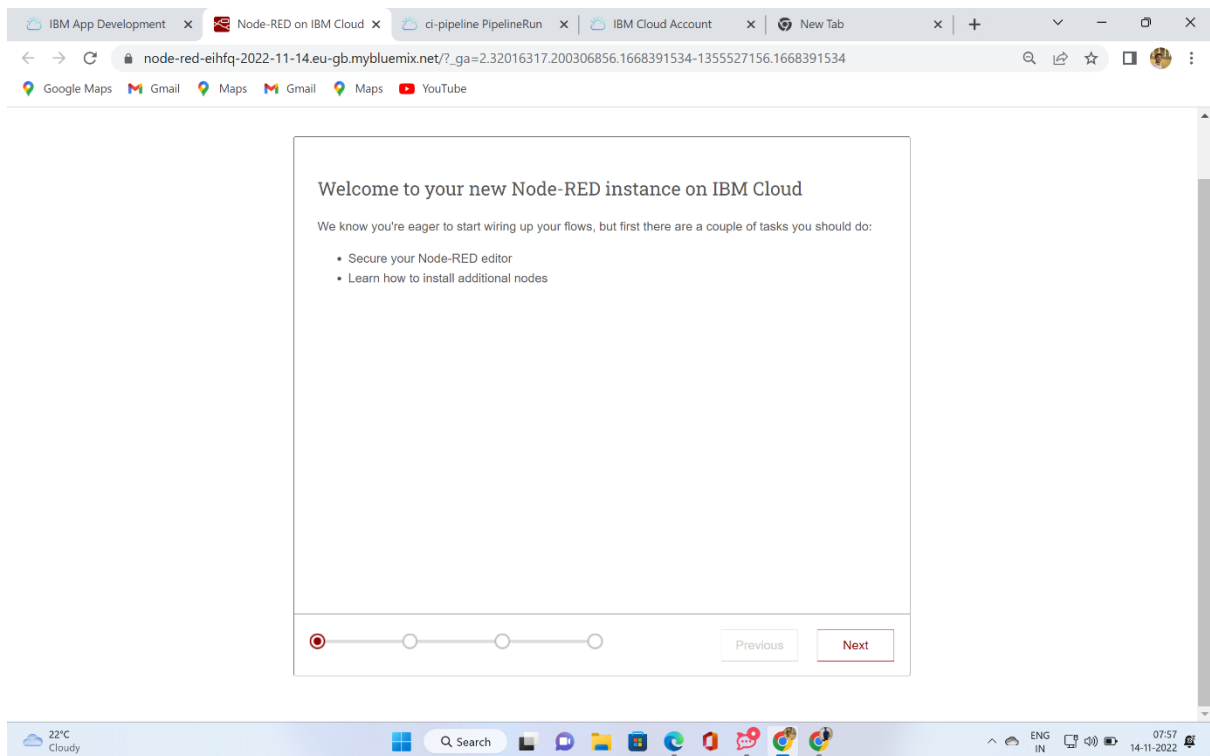
ASK A QUESTION

22°C Cloudy

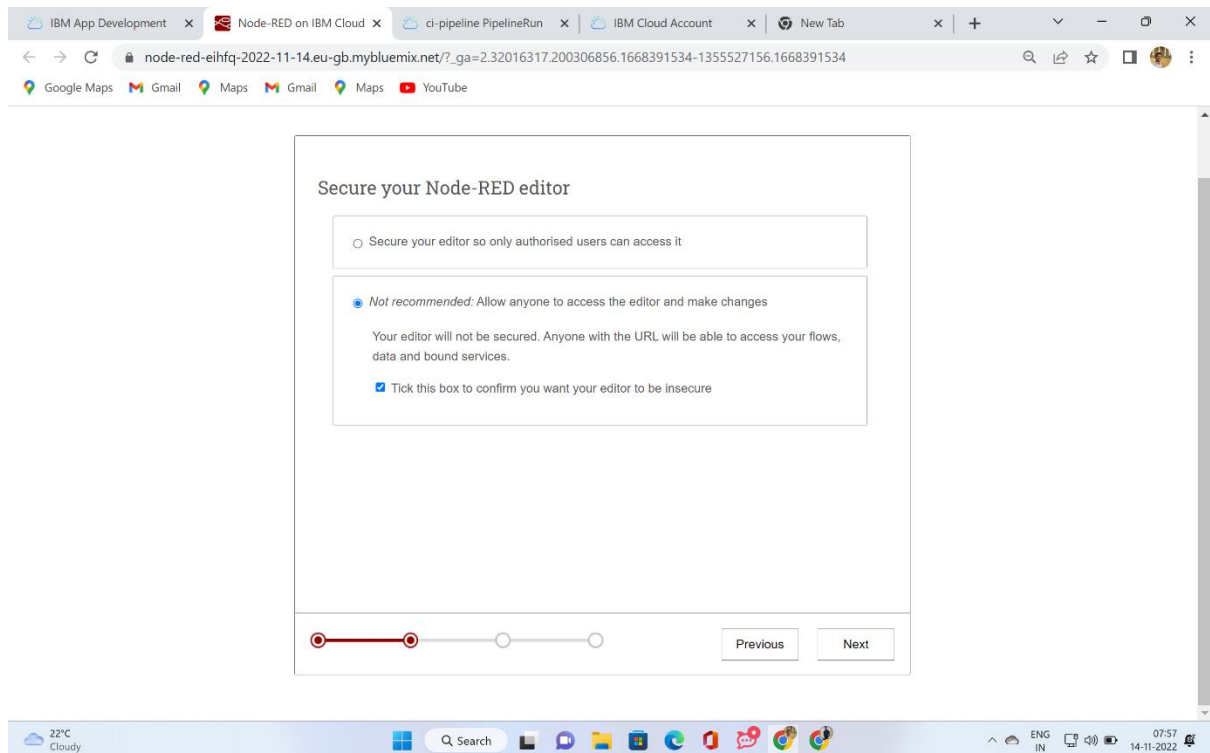
Search

ENG IN 07:57 14-11-2022

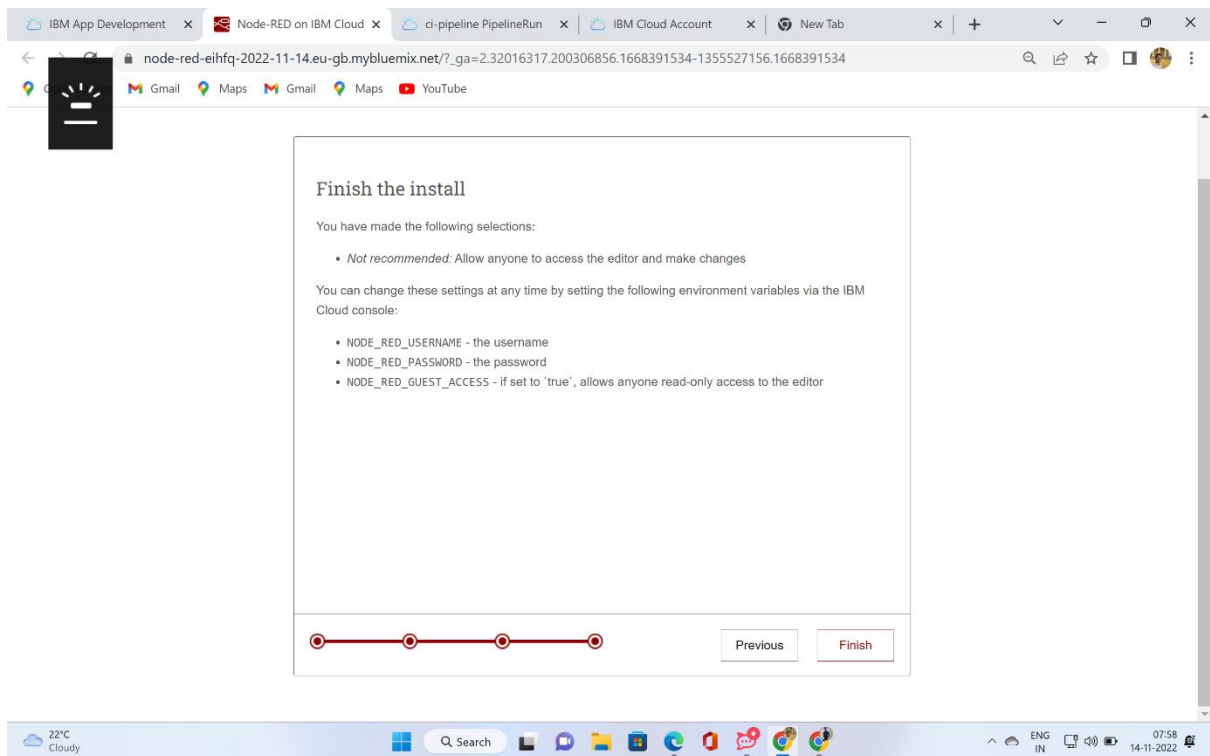
Now click the URL and click the next.



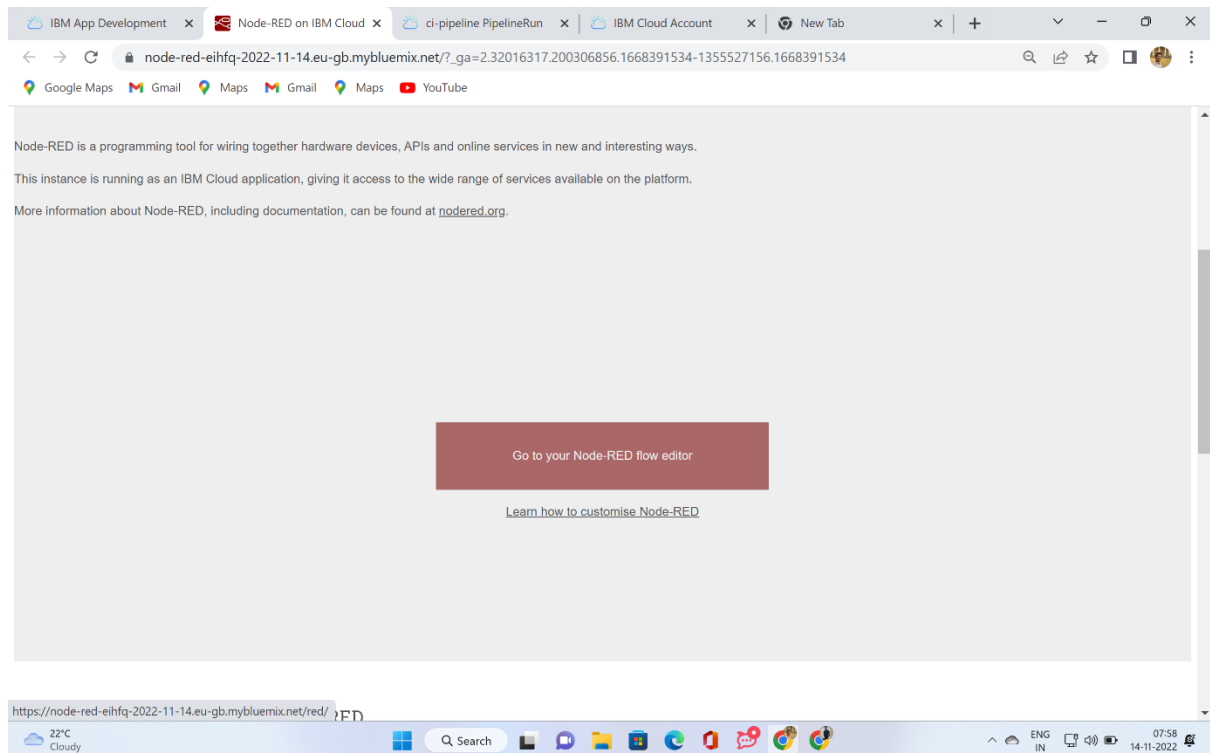
Select the not recommended and click next.



Now click the finish button.



And click the go to your Node-RED flow editor.



Now finally we created the NODE-RED and we can see work flow Editor.

The screenshot displays the Node-RED web interface in a browser. The browser's address bar shows the URL: `node-red-eihfq-2022-11-14.eu-gb.mybluemix.net/red/#flow/0027790cd6946152`. The interface is divided into several sections:

- Left Sidebar (Node Palette):** Contains a search bar and two categories of nodes: 'common' and 'function'. The 'common' category includes nodes like 'inject', 'debug', 'complete', 'catch', 'status', 'link in', 'link call', 'link out', and 'comment'. The 'function' category includes 'function', 'switch', 'change', 'range', and 'template'.
- Flow Editor:** The central workspace where a flow is being built. It shows a flow named 'Flow 1' with two nodes: a blue 'Hello Node-RED!' node and a green 'msg.payload' node, connected by a line.
- Right Sidebar (Debug Console):** Displays a log of messages. It shows four entries, each with a timestamp (11/14/2022, 7:59:58 AM), a node ID (node: f2f2649a.000e98), and a message payload (string[15]). The messages are: "Hello Node-RED!", "Hello Node-RED!", "Hello Node-RED!", and "Hello Node-RED!".

The bottom of the image shows the Windows taskbar with the date and time (14-11-2022, 08:00) and the system status (22°C Cloudy).