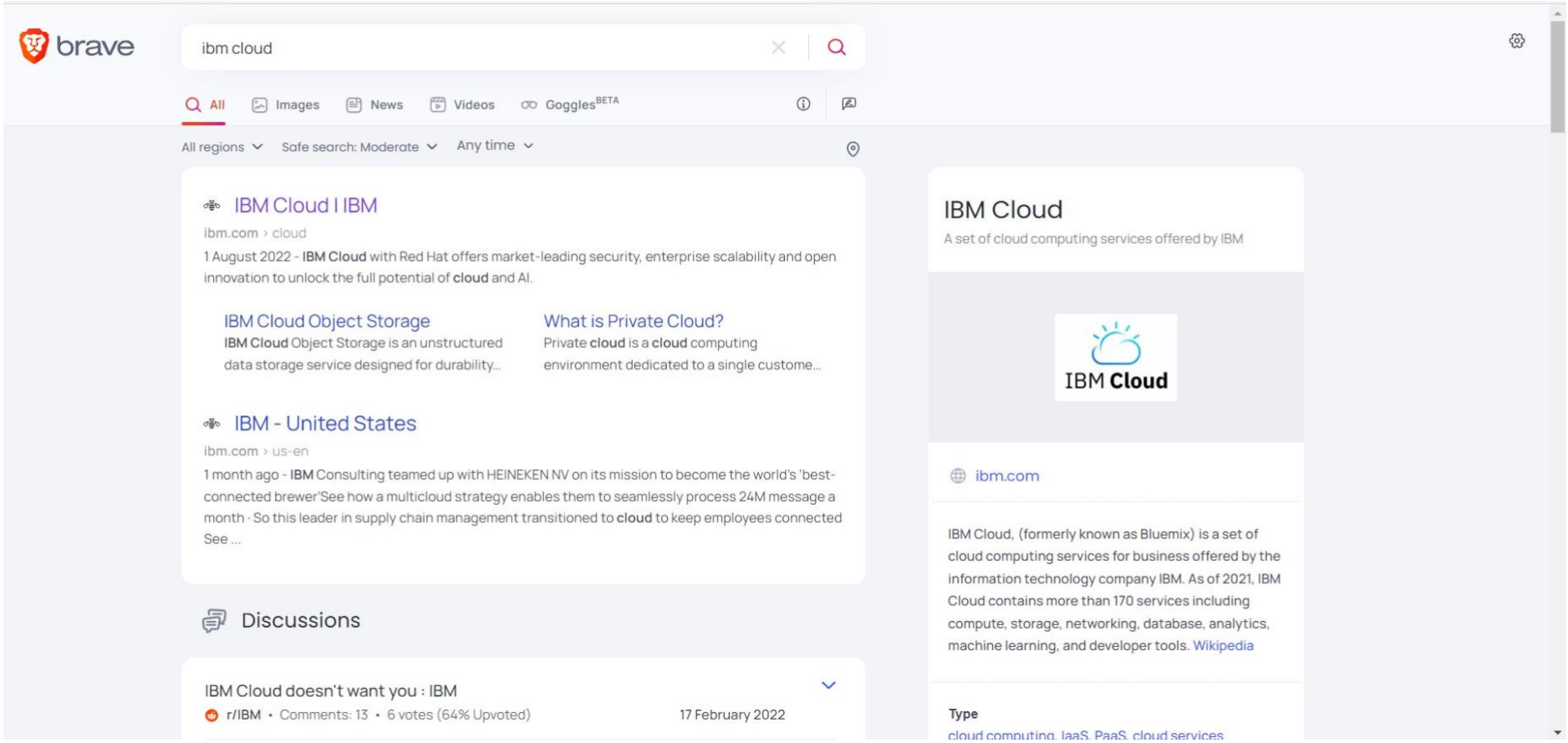
Create And Configure IBM Cloud Services

Project Title	SmartFarmer – IoT Enabled Smart Farming Application
Team ID	PNT2022TMID17466
Content	IBM Cloud Service

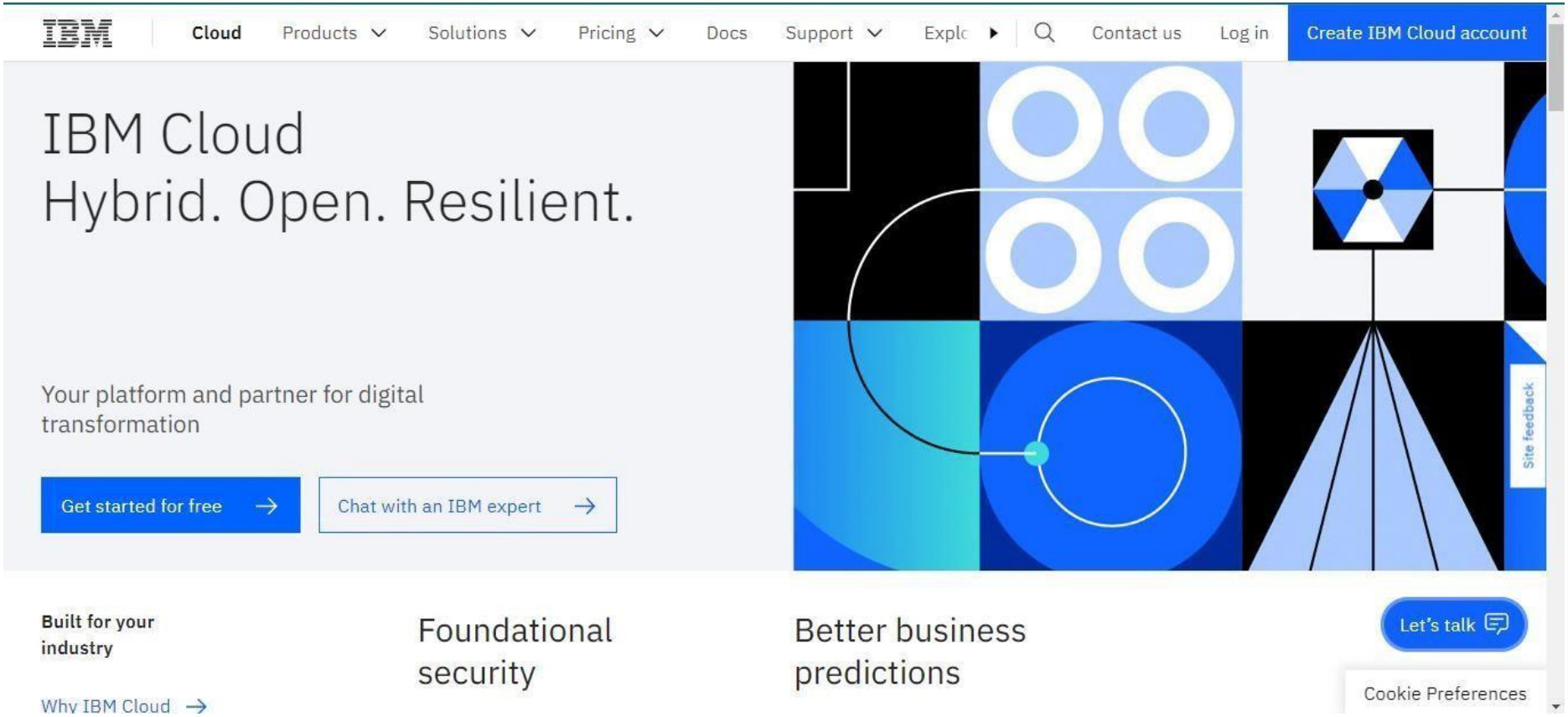
STEP 1:

Type IBM Cloud in Google and click on the first link.


brave
ibm cloud
All
Images
News
Videos
Goggles BETA
All regions
Safe search: Moderate
Any time
IBM Cloud | IBM
ibm.com › cloud
1 August 2022 - IBM Cloud with Red Hat offers market-leading security, enterprise scalability and open innovation to unlock the full potential of cloud and AI.
IBM Cloud Object Storage
IBM Cloud Object Storage is an unstructured data storage service designed for durability...
What is Private Cloud?
Private cloud is a cloud computing environment dedicated to a single custome...
IBM - United States
ibm.com › us-en
1 month ago - IBM Consulting teamed up with HEINEKEN NV on its mission to become the world's 'best-connected brewer'See how a multicloud strategy enables them to seamlessly process 24M message a month · So this leader in supply chain management transitioned to cloud to keep employees connected See ...
Discussions
IBM Cloud doesn't want you : IBM
r/IBM • Comments: 13 • 6 votes (64% Upvoted)
17 February 2022
IBM Cloud
A set of cloud computing services offered by IBM
IBM Cloud
ibm.com
IBM Cloud, (formerly known as Bluemix) is a set of cloud computing services for business offered by the information technology company IBM. As of 2021, IBM Cloud contains more than 170 services including compute, storage, networking, database, analytics, machine learning, and developer tools. Wikipedia
Type
cloud computing, IaaS, PaaS, cloud services

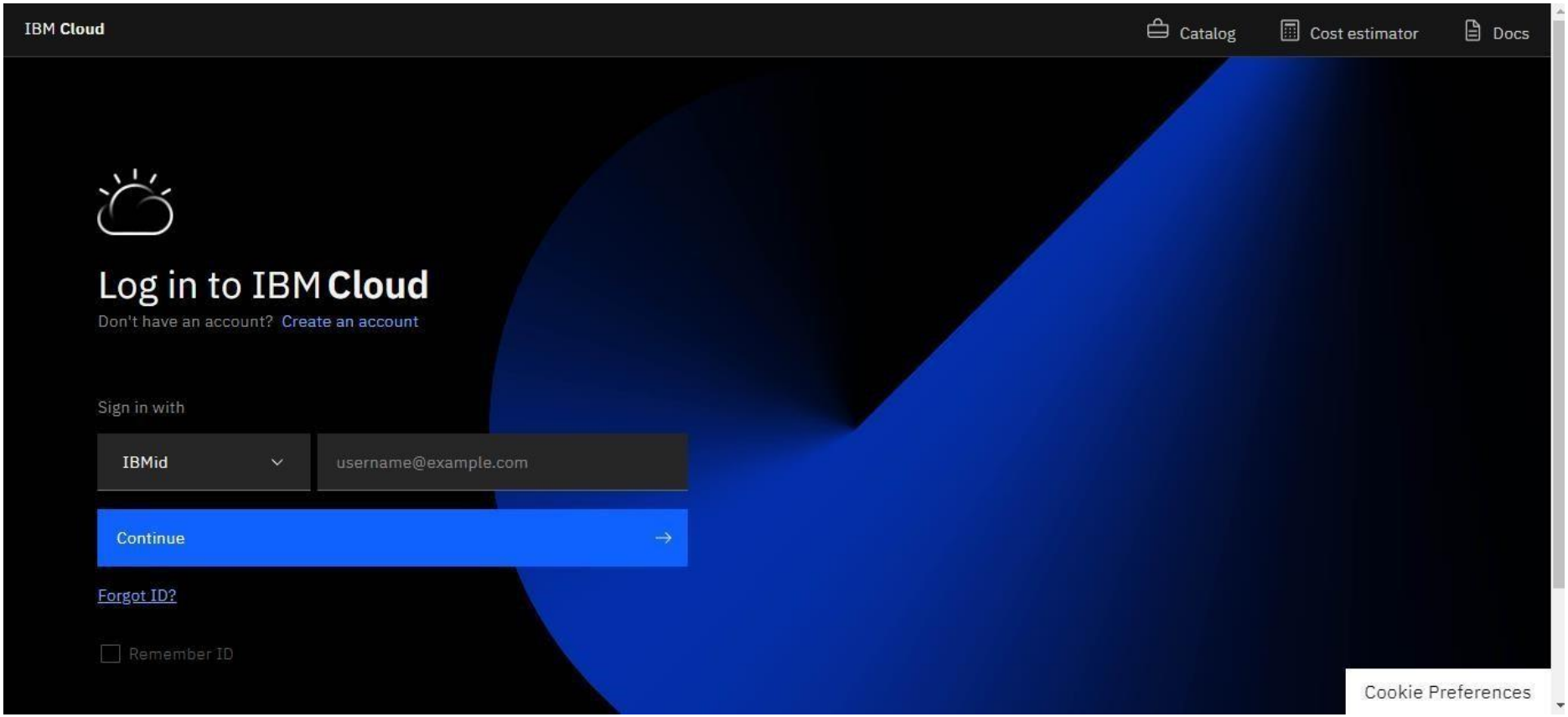
STEP 2:

Click on create IBM Cloud Account Now and enter the details.



STEP 3:

You will get the email with your password. Type your mail Id and the password then click on the login button.

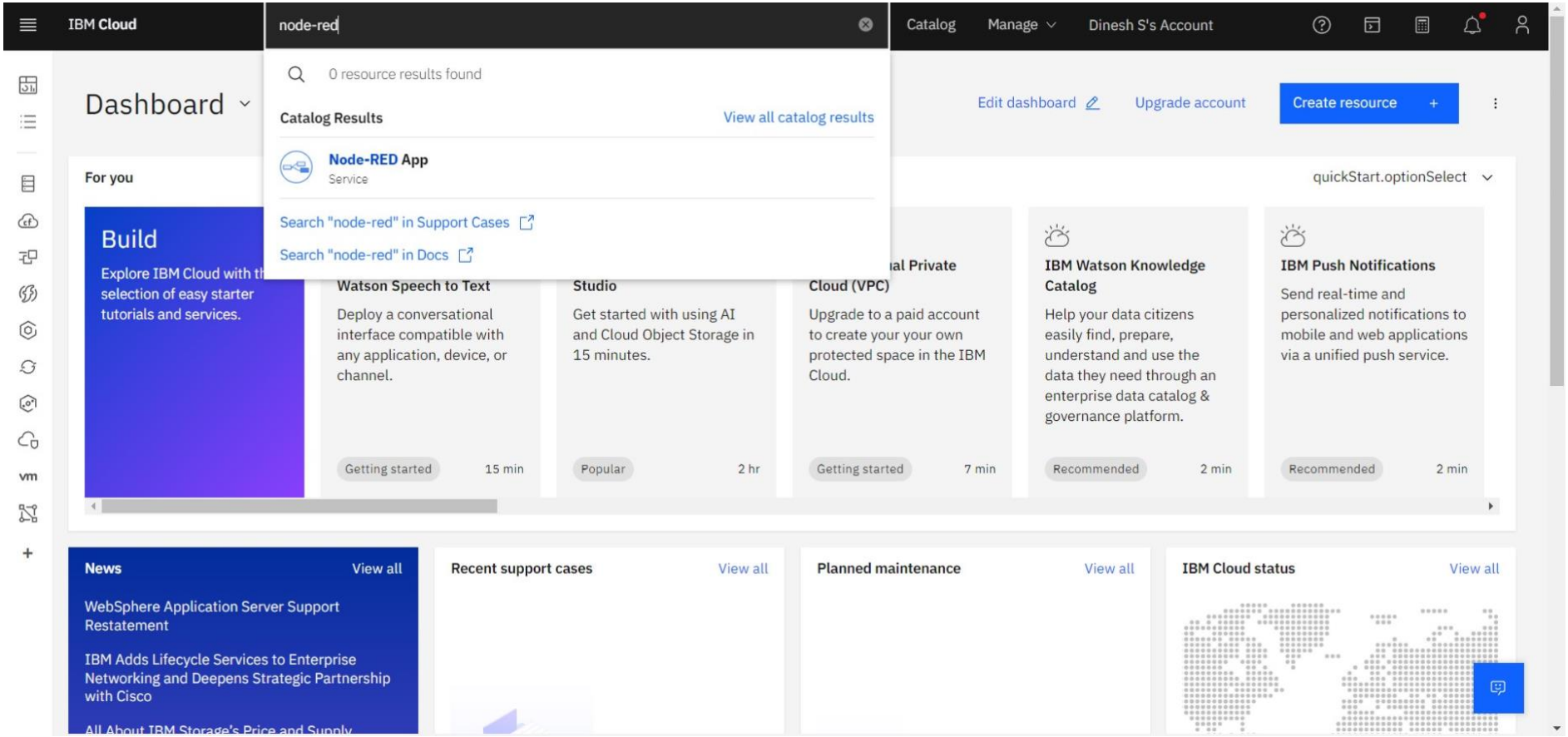

IBM Cloud
Catalog
Cost estimator
Docs
Log in to IBM Cloud
Don't have an account? Create an account
Sign in with
IBMid
username@example.com
Continue
Forgot ID?
Remember ID
Cookie Preferences

STEP

4:

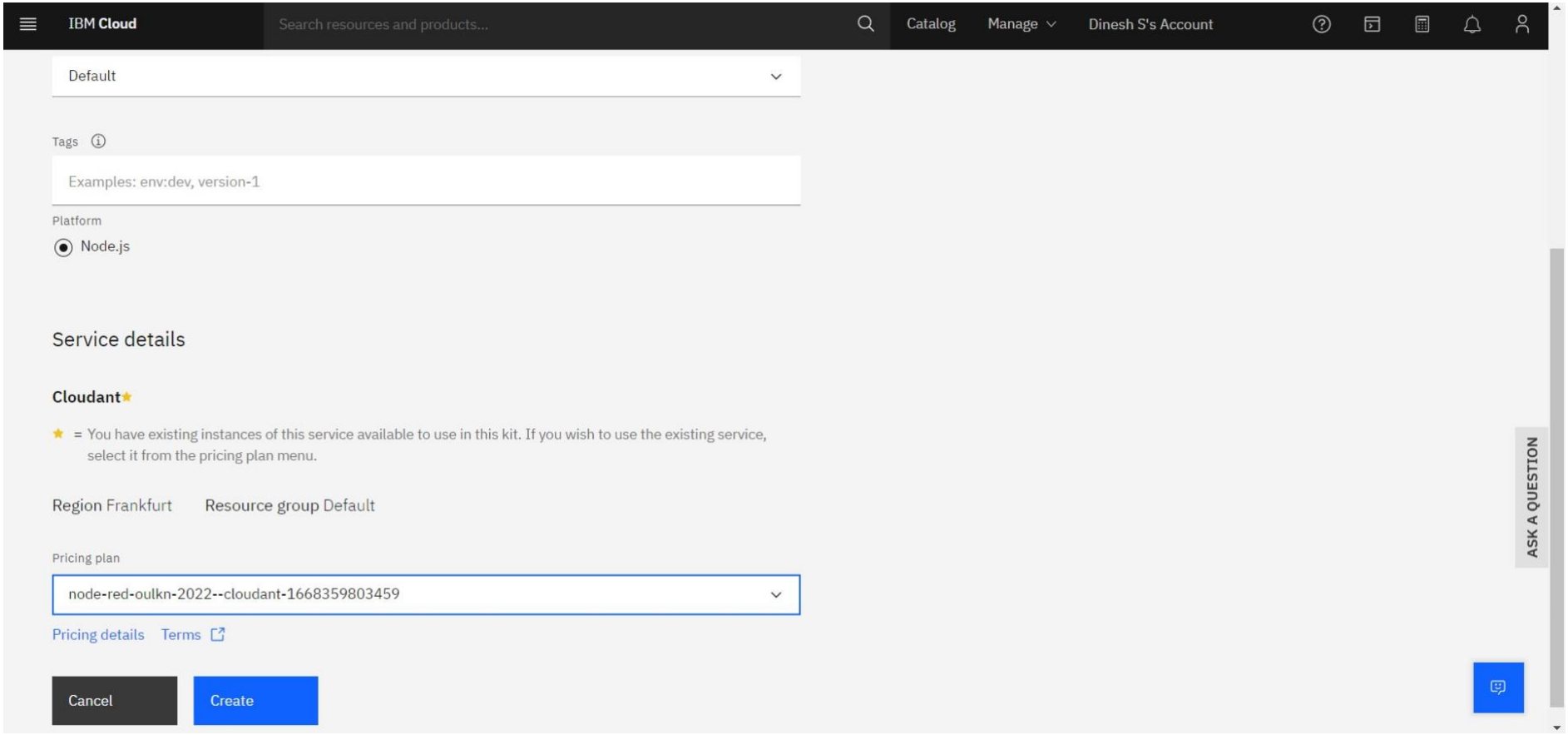
Now you are in Dashboard. Now search Node-Red and click on it.

STEP 5:



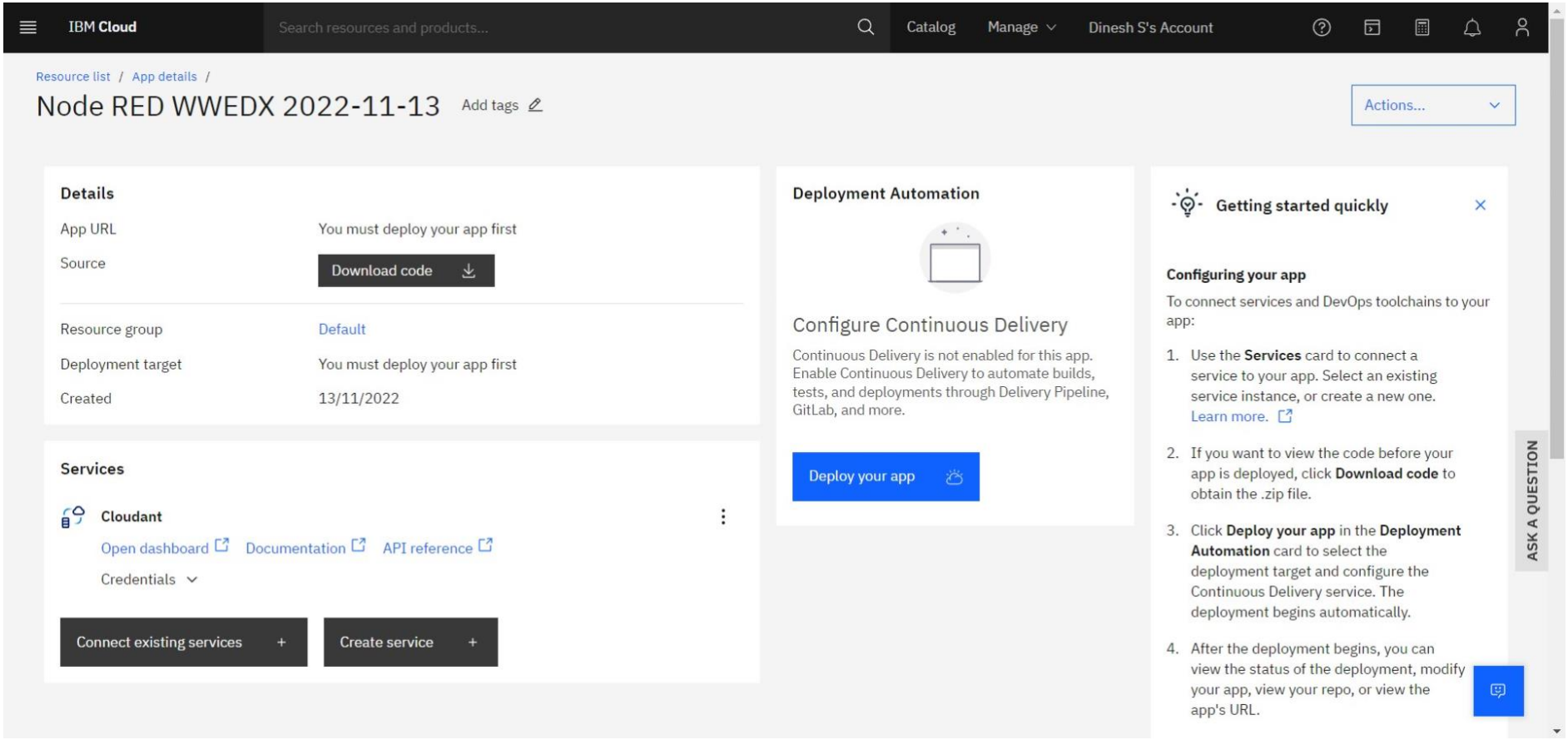
Now click on Get Started. After choose node-red in pricing plan or you can choose Lite. Then click on create option.

STEP 6:



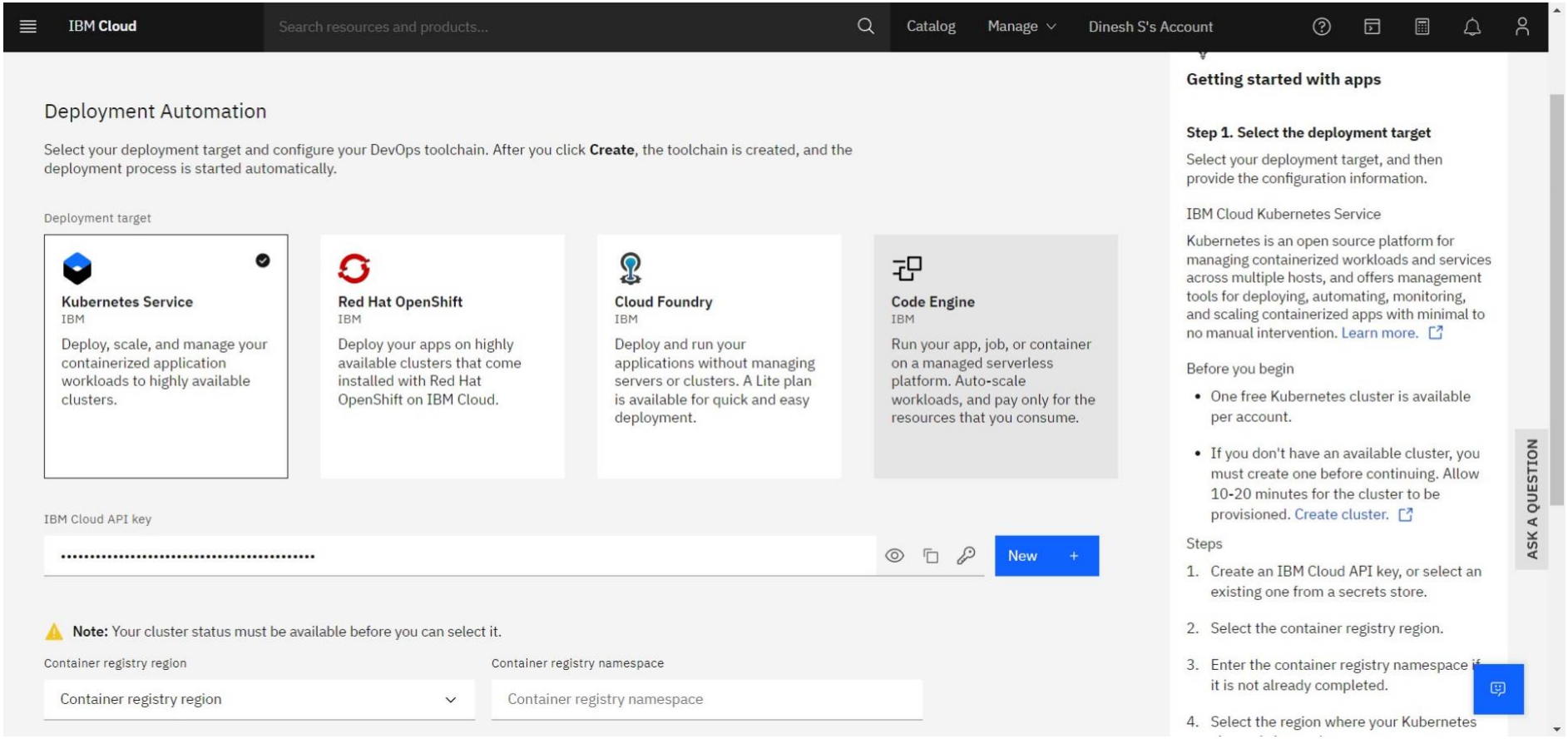
Now you will be redirected to your node-red app page.

STEP 7:



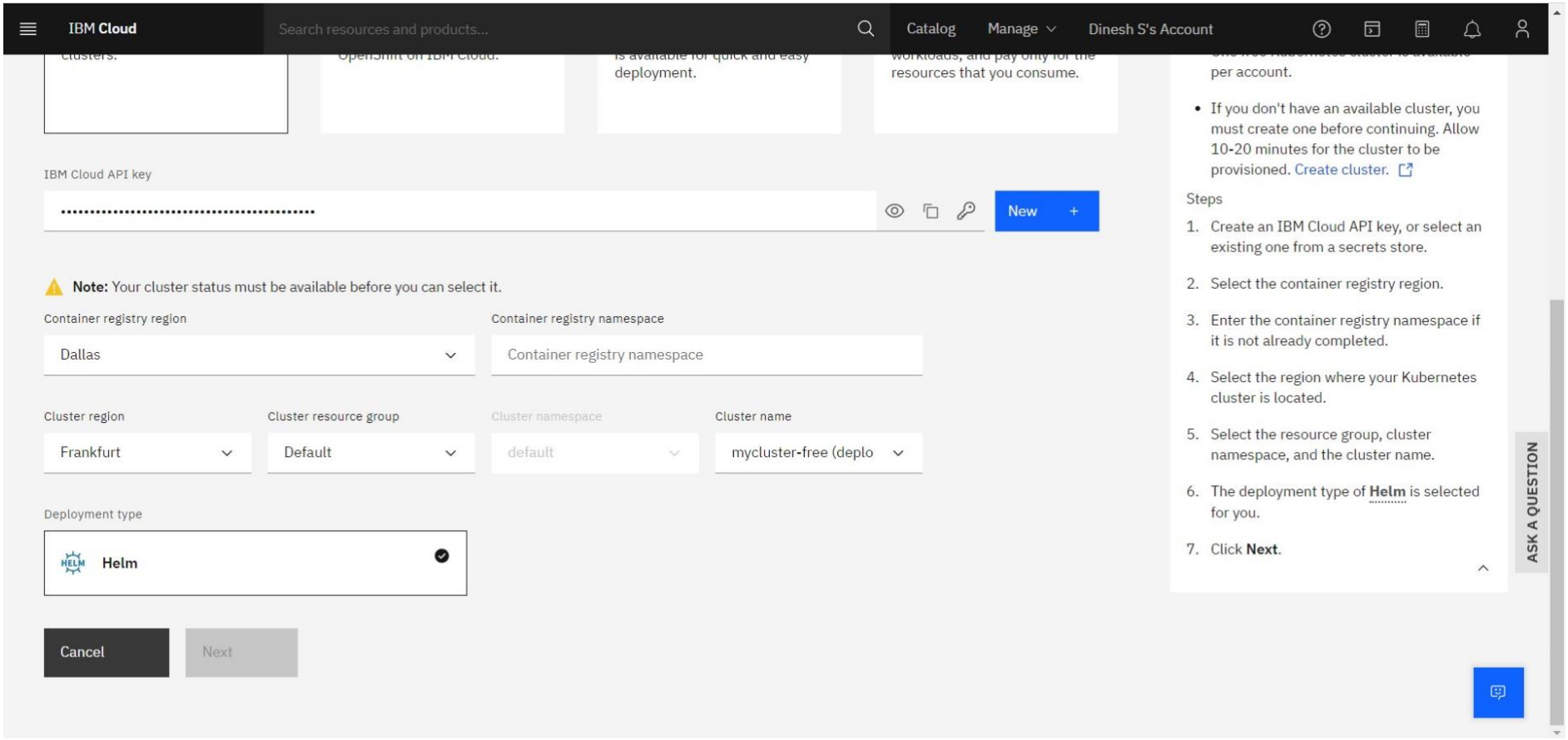
Now click Deploy your app option.

STEP 8:



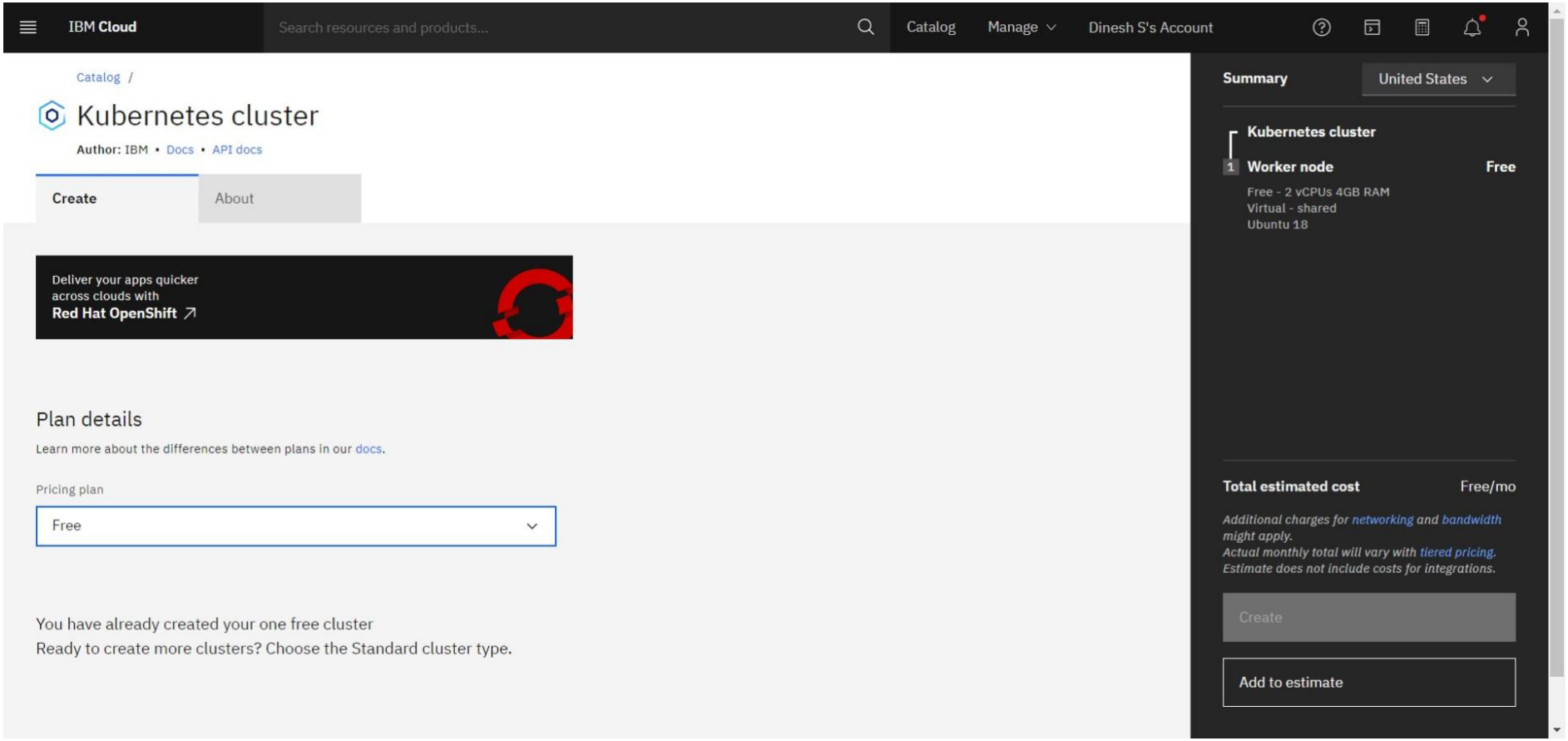
Now choose Kubernetes Service and below you will see IBM Cloud API Key there click on New and then click OK. Your API Key will be generated.

STEP 9:



Now click on Create New below the cluster name. You will be redirected to new page. In new page, choose pricing plan as Free and then click on Create.

STEP 10:


IBM Cloud
Search resources and products...
Catalog
Manage
Dinesh S's Account
Catalog /
Kubernetes cluster
Author: IBM • Docs • API docs
Create
About
Deliver your apps quicker
across clouds with
Red Hat OpenShift
Plan details
Learn more about the differences between plans in our docs.
Pricing plan
Free
You have already created your one free cluster
Ready to create more clusters? Choose the Standard cluster type.
Summary
United States
Kubernetes cluster
1 Worker node
Free
Free - 2 vCPUs 4GB RAM
Virtual - shared
Ubuntu 18
Total estimated cost
Free/mo
Additional charges for networking and bandwidth might apply.
Actual monthly total will vary with tiered pricing.
Estimate does not include costs for integrations.
Create
Add to estimate

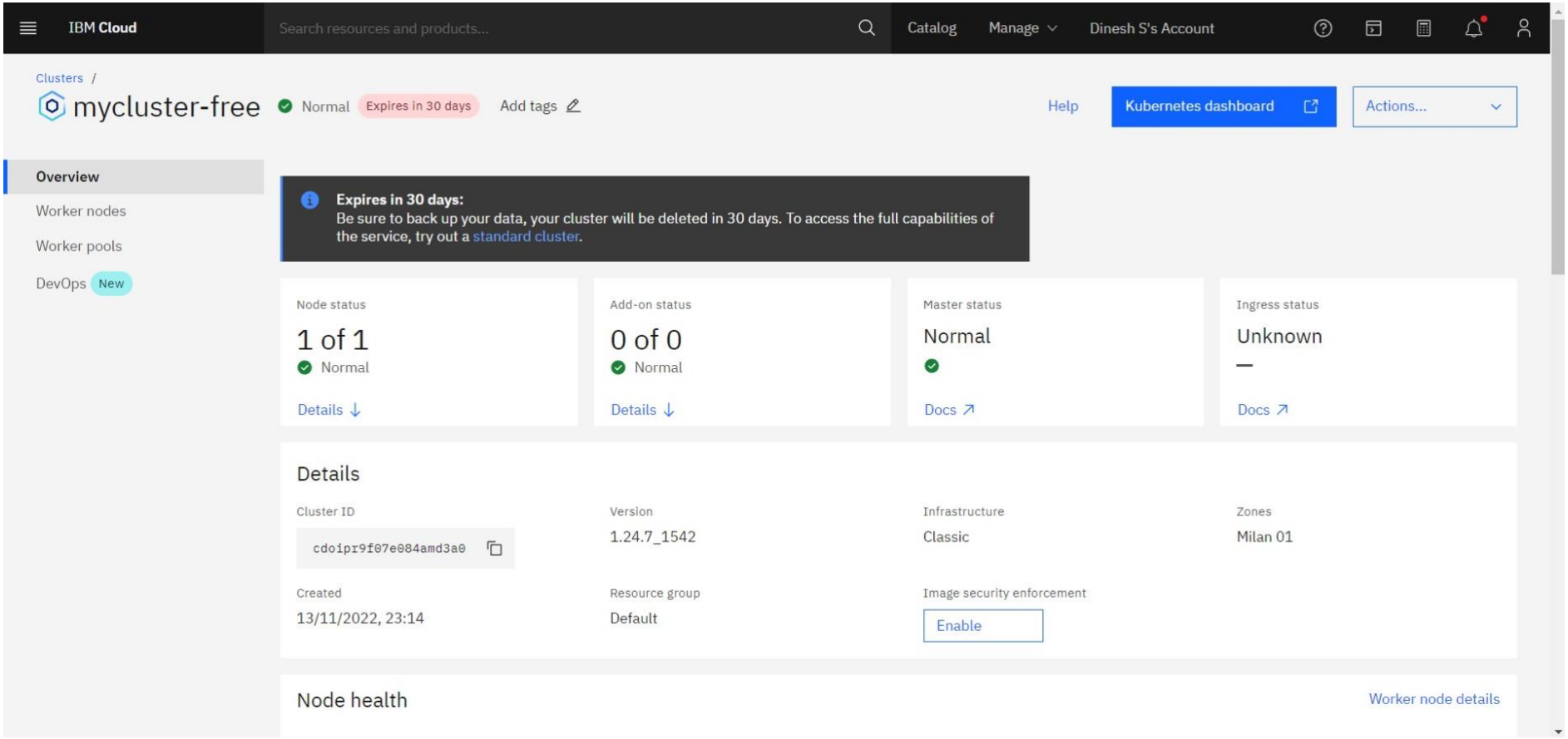
STEP 11:

For cluster creation you need to wait for 20 minutes. After creation come back to node red app tab.

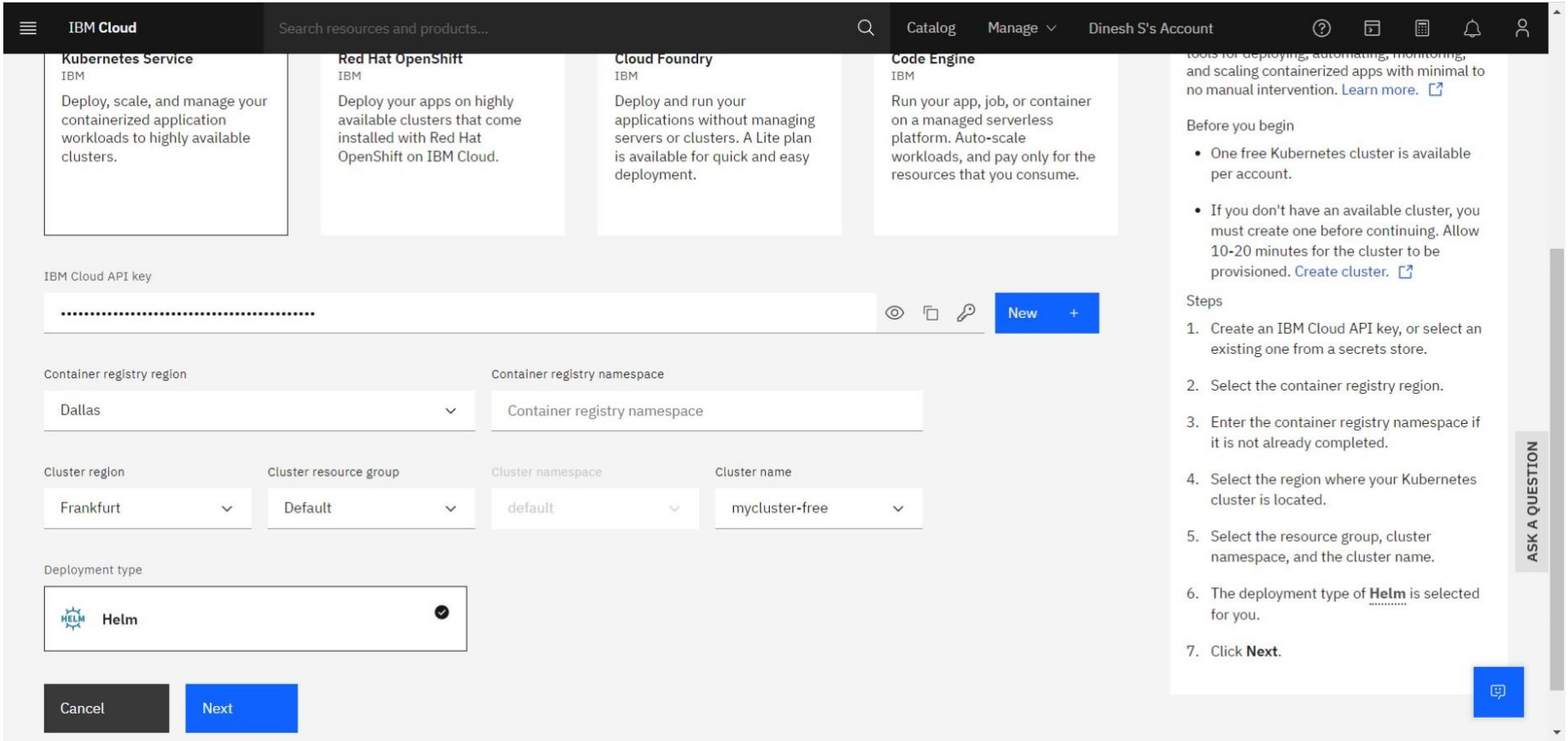
STEP 12

:

STEP 13



In cluster name, choose mycluster-free and click on Next.

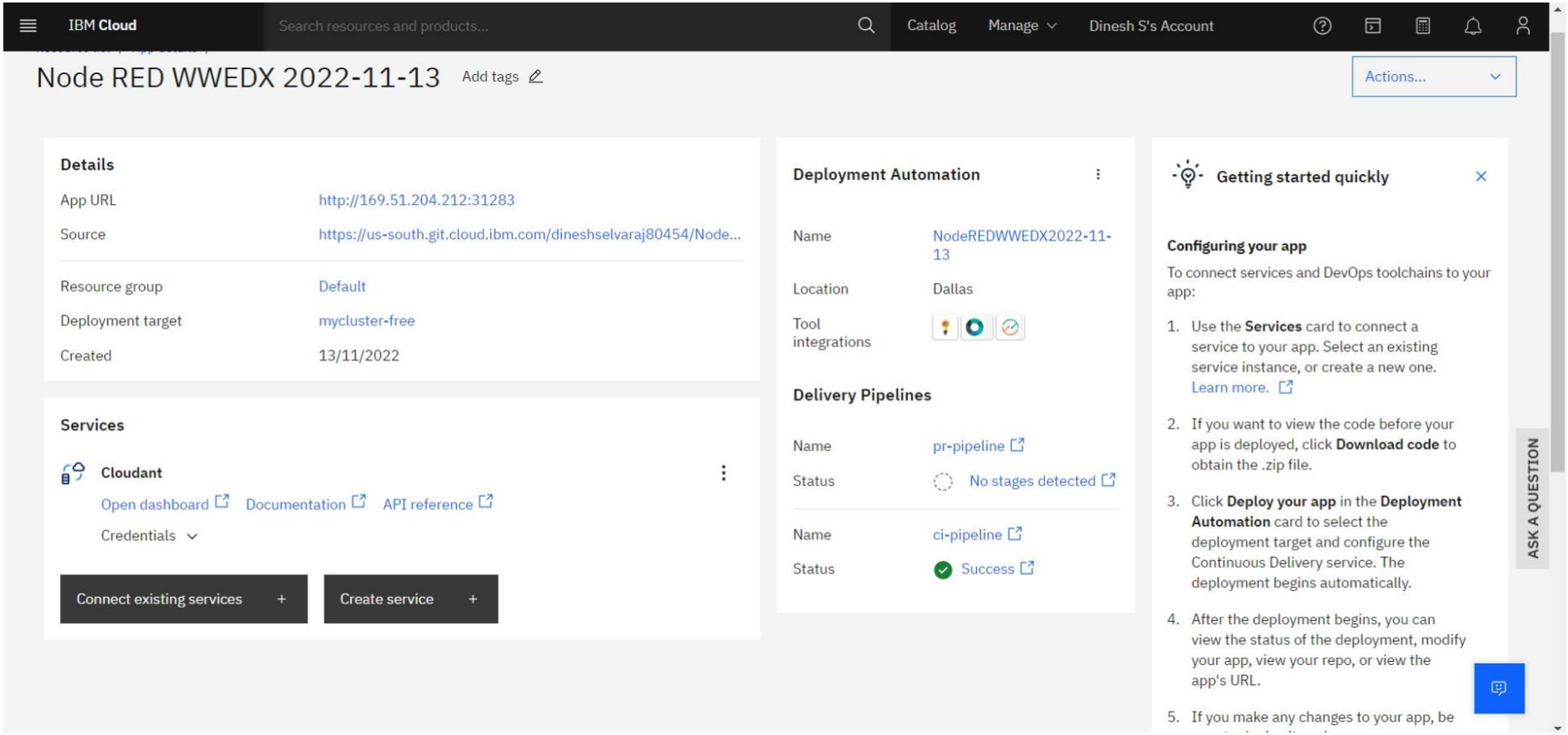

IBM Cloud
Search resources and products...
Catalog
Manage
Dinesh S's Account
Kubernetes Service
IBM
Deploy, scale, and manage your containerized application workloads to highly available clusters.
Red Hat OpenShift
IBM
Deploy your apps on highly available clusters that come installed with Red Hat OpenShift on IBM Cloud.
Cloud Foundry
IBM
Deploy and run your applications without managing servers or clusters. A Lite plan is available for quick and easy deployment.
Code Engine
IBM
Run your app, job, or container on a managed serverless platform. Auto-scale workloads, and pay only for the resources that you consume.
and scaling containerized apps with minimal to no manual intervention. Learn more.
Before you begin
One free Kubernetes cluster is available per account.
If you don't have an available cluster, you must create one before continuing. Allow 10-20 minutes for the cluster to be provisioned. Create cluster.
Steps
1. Create an IBM Cloud API key, or select an existing one from a secrets store.
2. Select the container registry region.
3. Enter the container registry namespace if it is not already completed.
4. Select the region where your Kubernetes cluster is located.
5. Select the resource group, cluster namespace, and the cluster name.
6. The deployment type of Helm is selected for you.
7. Click Next.
IBM Cloud API key
New +
Container registry region
Dallas
Container registry namespace
Container registry namespace
Cluster region
Frankfurt
Cluster resource group
Default
Cluster namespace
default
Cluster name
mycluster-free
Deployment type
Helm
Cancel
Next
ASK A QUESTION

STEP 15

Then click on Create.

STEP 12:

You need to wait until ci-pipeline status success.

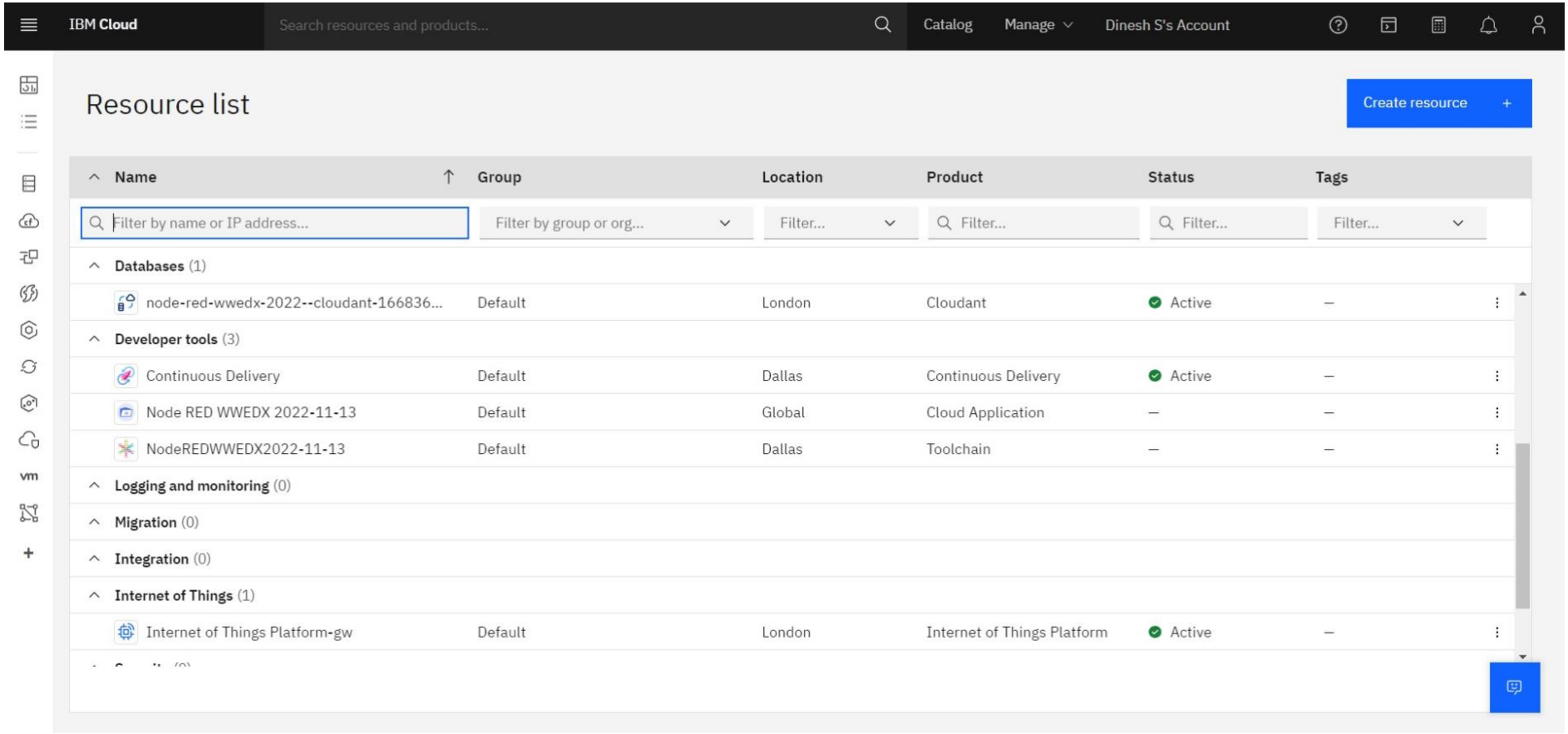

IBM Cloud
Search resources and products...
Catalog
Manage
Dinesh S's Account
Node RED WWEDX 2022-11-13
Add tags
Actions...
Details
App URL
http://169.51.204.212:31283
Source
https://us-south.git.cloud.ibm.com/dineshselvaraj80454/Node...
Resource group
Default
Deployment target
mycluster-free
Created
13/11/2022
Services
Cloudant
Open dashboard
Documentation
API reference
Credentials
Connect existing services
Create service
Deployment Automation
Name
NodeREDWWEDX2022-11-13
Location
Dallas
Tool integrations
Delivery Pipelines
Name
pr-pipeline
Status
No stages detected
Name
ci-pipeline
Status
Success
Getting started quickly
Configuring your app
To connect services and DevOps toolchains to your app:
1. Use the Services card to connect a service to your app. Select an existing service instance, or create a new one. Learn more.
2. If you want to view the code before your app is deployed, click Download code to obtain the .zip file.
3. Click Deploy your app in the Deployment Automation card to select the deployment target and configure the Continuous Delivery service. The deployment begins automatically.
4. After the deployment begins, you can view the status of the deployment, modify your app, view your repo, or view the app's URL.
5. If you make any changes to your app, be
ASK A QUESTION

STEP

13:

Now go to Dashboard, in sidebar menu choose Resource list > Developer Tools. Click on your Node-red (Cloud Application)

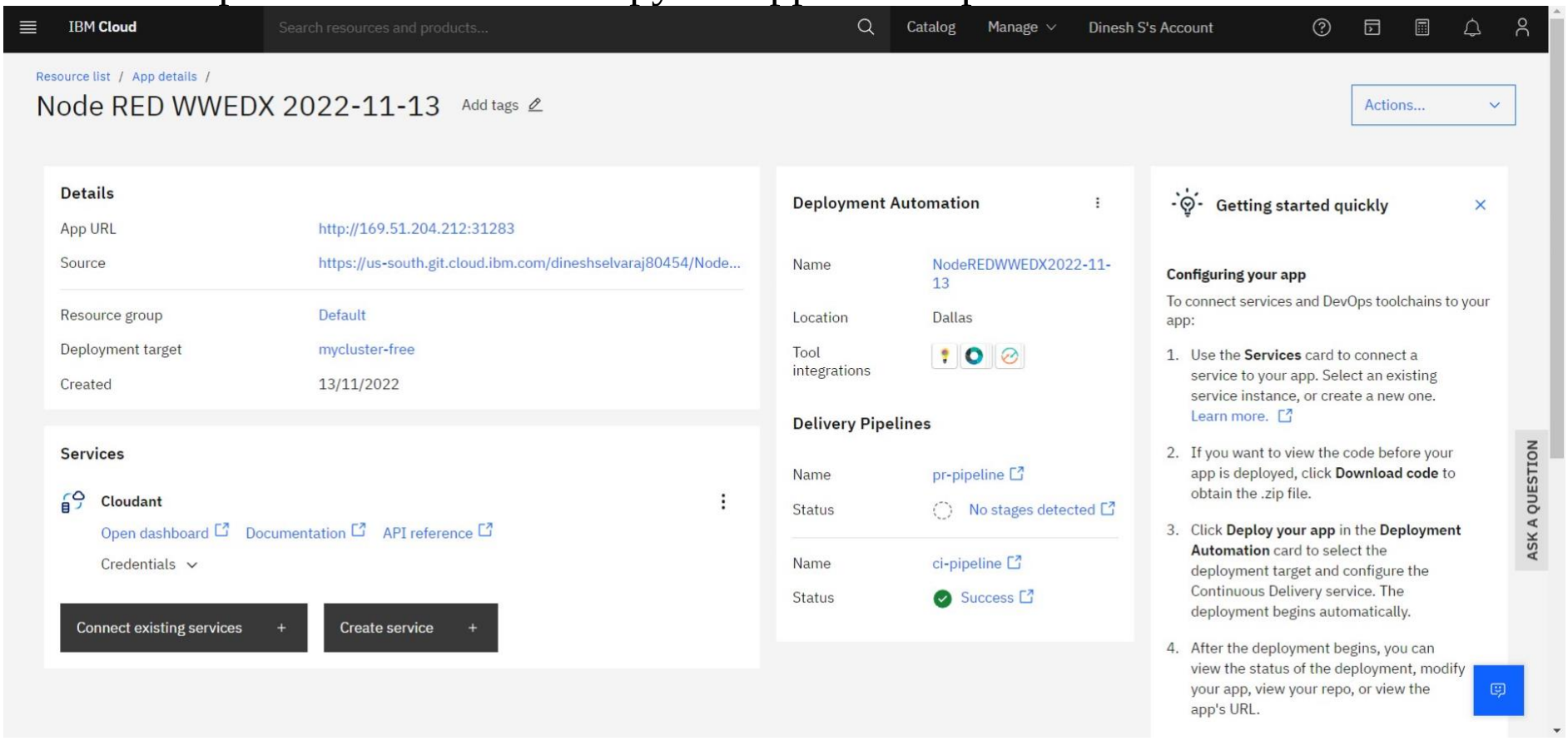
STEP


IBM Cloud
Search resources and products...
Catalog
Manage
Dinesh S's Account
Resource list
Create resource
Name
Group
Location
Product
Status
Tags
Filter by name or IP address...
Filter by group or org...
Filter...
Databases (1)
node-red-wwedx-2022--cloudant-166836...
Default
London
Cloudant
Active
Developer tools (3)
Continuous Delivery
Default
Dallas
Continuous Delivery
Active
Node RED WWEDX 2022-11-13
Default
Global
Cloud Application
NodeREDWWEDX2022-11-13
Default
Dallas
Toolchain
Logging and monitoring (0)
Migration (0)
Integration (0)
Internet of Things (1)
Internet of Things Platform-gw
Default
London
Internet of Things Platform
Active

14:

STEP

Now you will be redirected your Node-red app there you can see your App url and Source. To open Node-red editor copy the app url and paste in new tab.

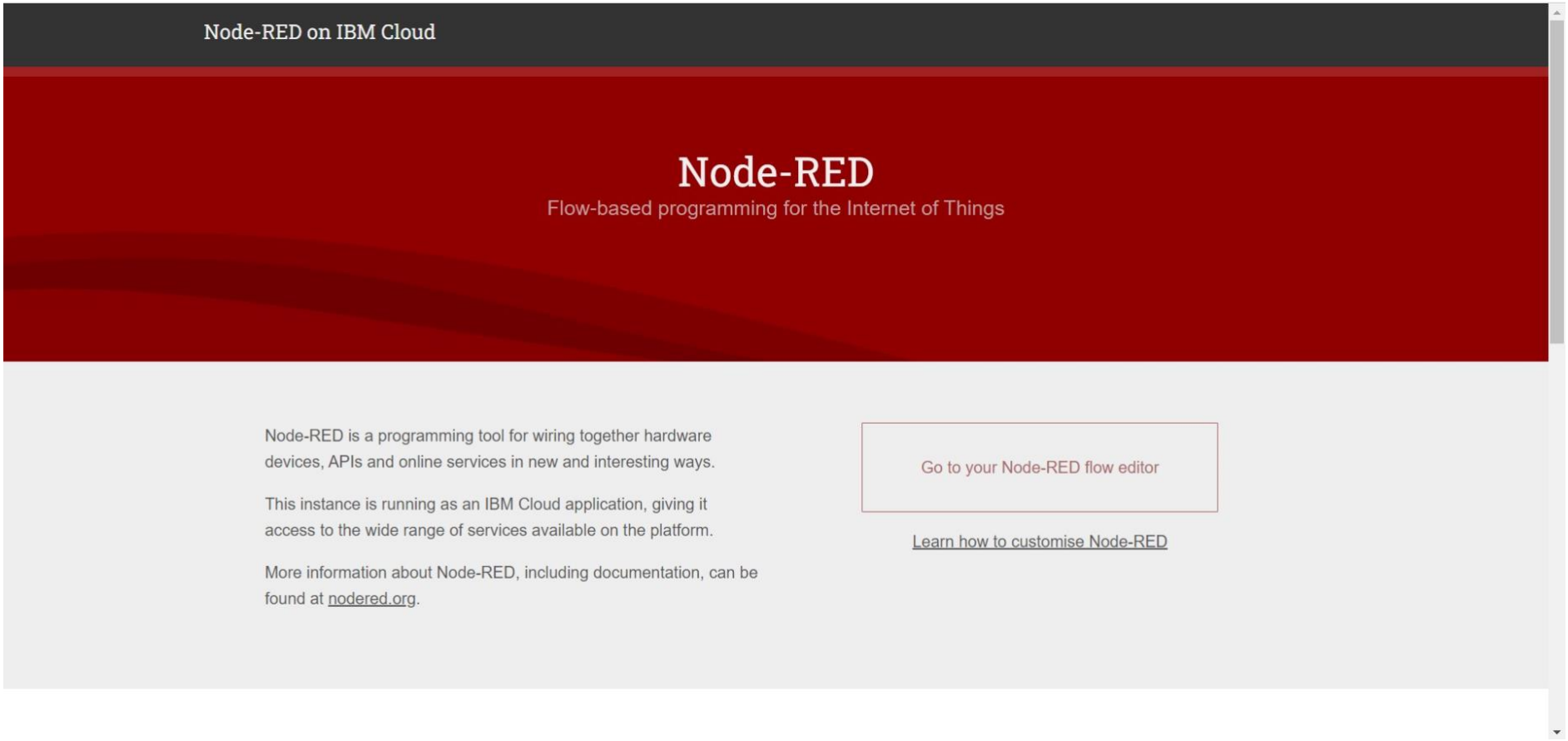


STEP

15:

Click on Next and then choose Not Recommended and click on next and then click finish. Then click on go to Node-RED flow editor. Now start work on your flows.

STEP


Node-RED on IBM Cloud
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