IOT Based Smart Crop Protection System for Agriculture

Team ID - PNT2022TMID49683

Node-RED Service Using Kubernates

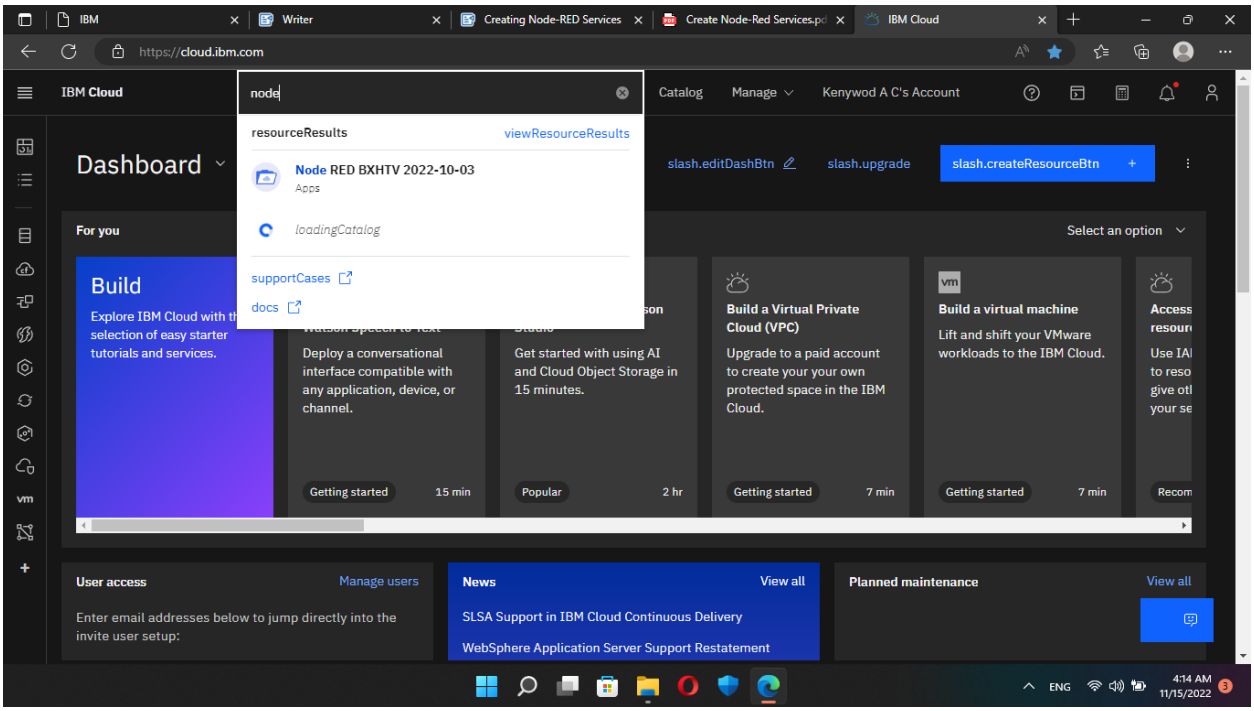
Objectives:

Create a Node-RED starter application running in the IBM Cloud

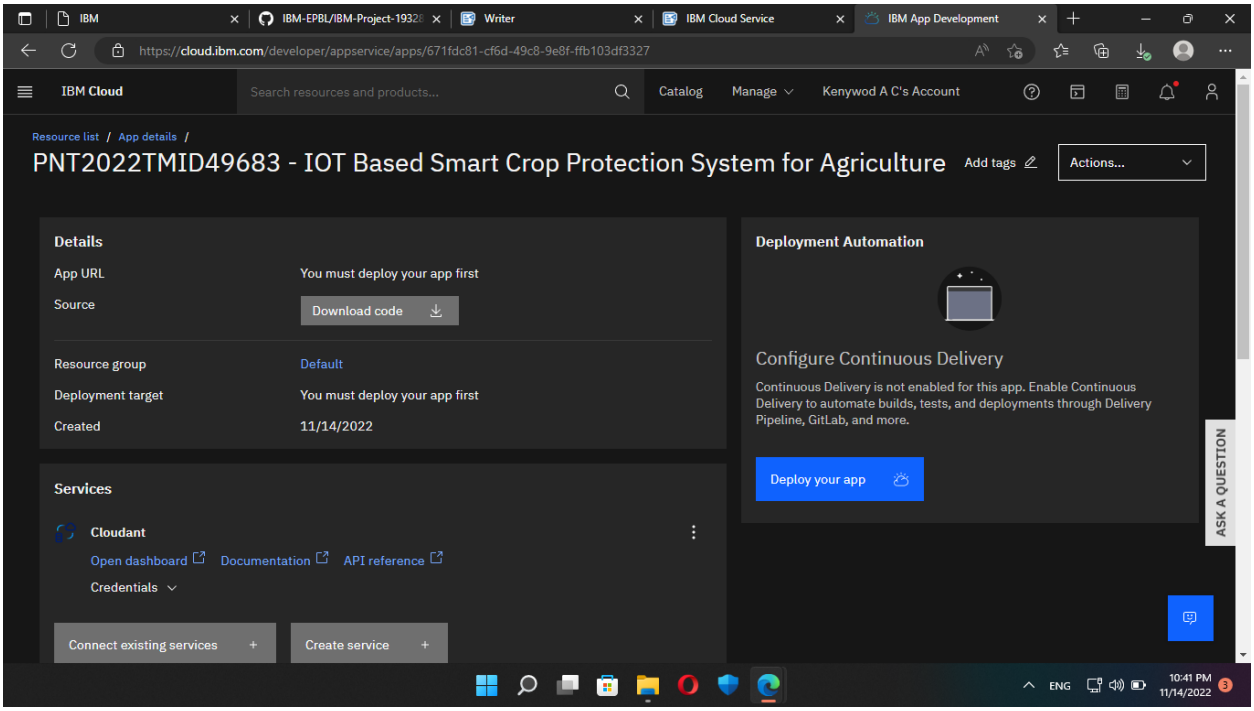
Steps :-

1. Find the Node-RED Starter Kit in the IBM Cloud catalog
2. Create your application
3. Enable the Continuous Delivery feature
4. Open the Node-RED application
5. Configure your Node-RED application
6. Add extra nodes to your Node-RED palette

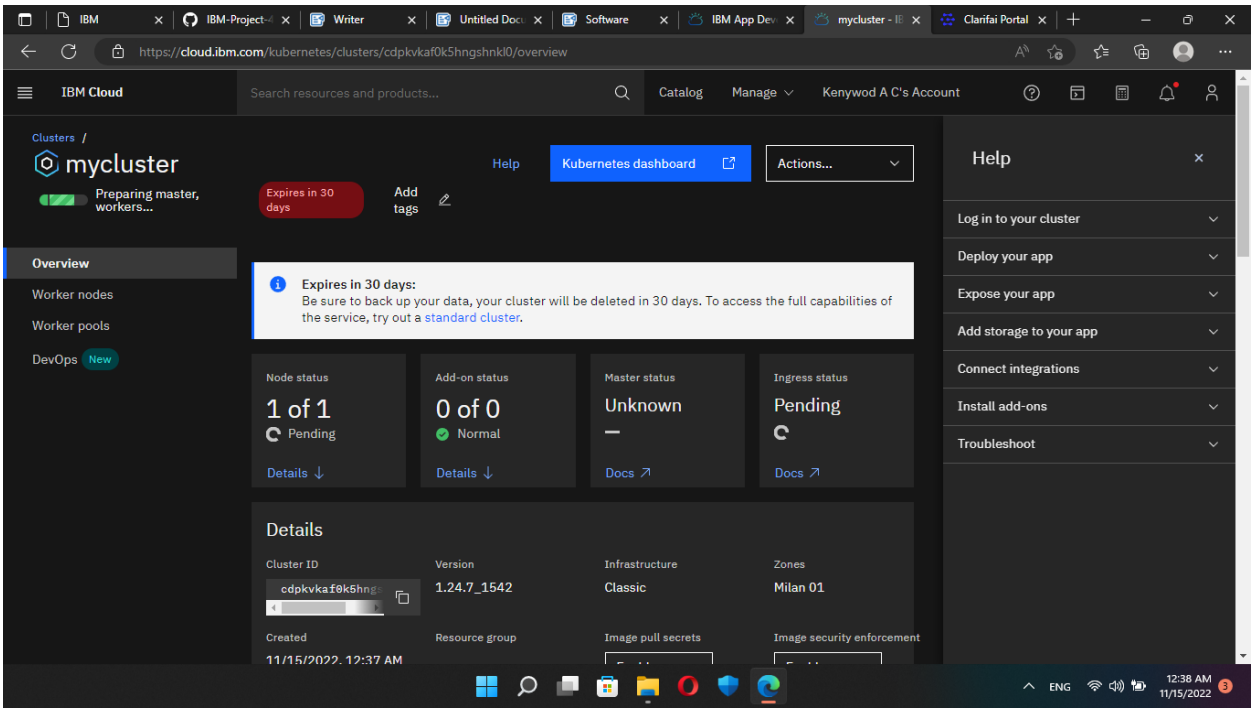
Step 1:



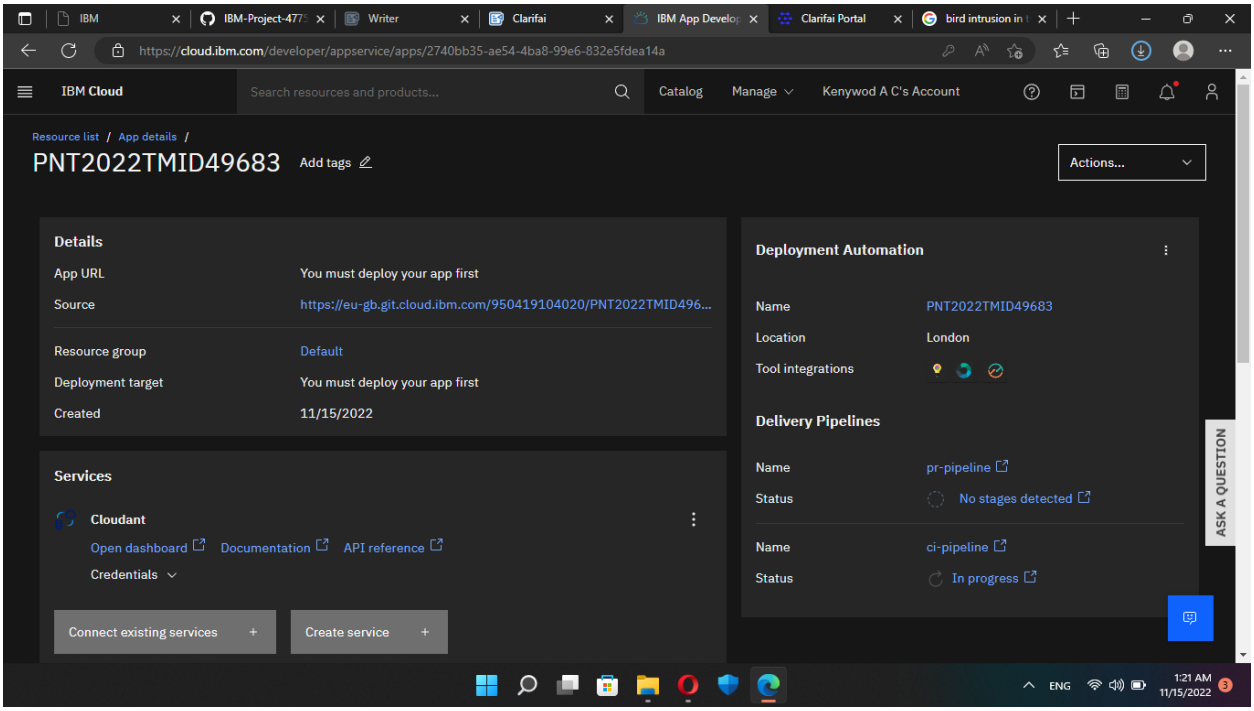
Step 2:


IBM Cloud
Search resources and products...
Catalog
Manage
Kenywod A C's Account
Resource list / App details /
PNT2022TMID49683 - IOT Based Smart Crop Protection System for Agriculture
Add tags
Actions...
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
ASK A QUESTION

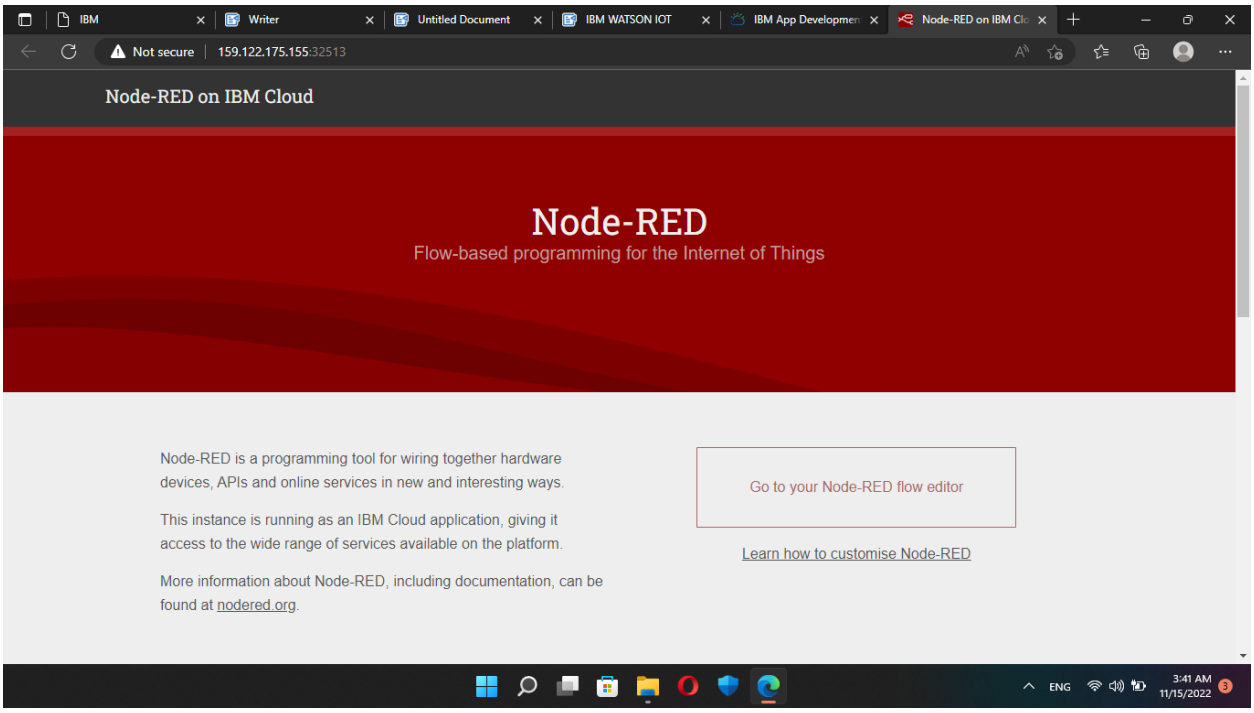
Step 3:


IBM Cloud
Search resources and products...
Catalog
Manage
Kenywod A C's Account
Clusters /
mycluster
Preparing master, workers...
Expires in 30 days
Add tags
Help
Kubernetes dashboard
Actions...
Overview
Worker nodes
Worker pools
DevOps New
Expires in 30 days:
Be sure to back up your data, your cluster will be deleted in 30 days. To access the full capabilities of the service, try out a standard cluster.
Node status
1 of 1
Pending
Details
Add-on status
0 of 0
Normal
Details
Master status
Unknown
Docs
Ingress status
Pending
Docs
Details
Cluster ID
Version
1.24.7_1542
Infrastructure
Classic
Zones
Milan 01
Created
Resource group
Image pull secrets
Image security enforcement
Help
Log in to your cluster
Deploy your app
Expose your app
Add storage to your app
Connect integrations
Install add-ons
Troubleshoot

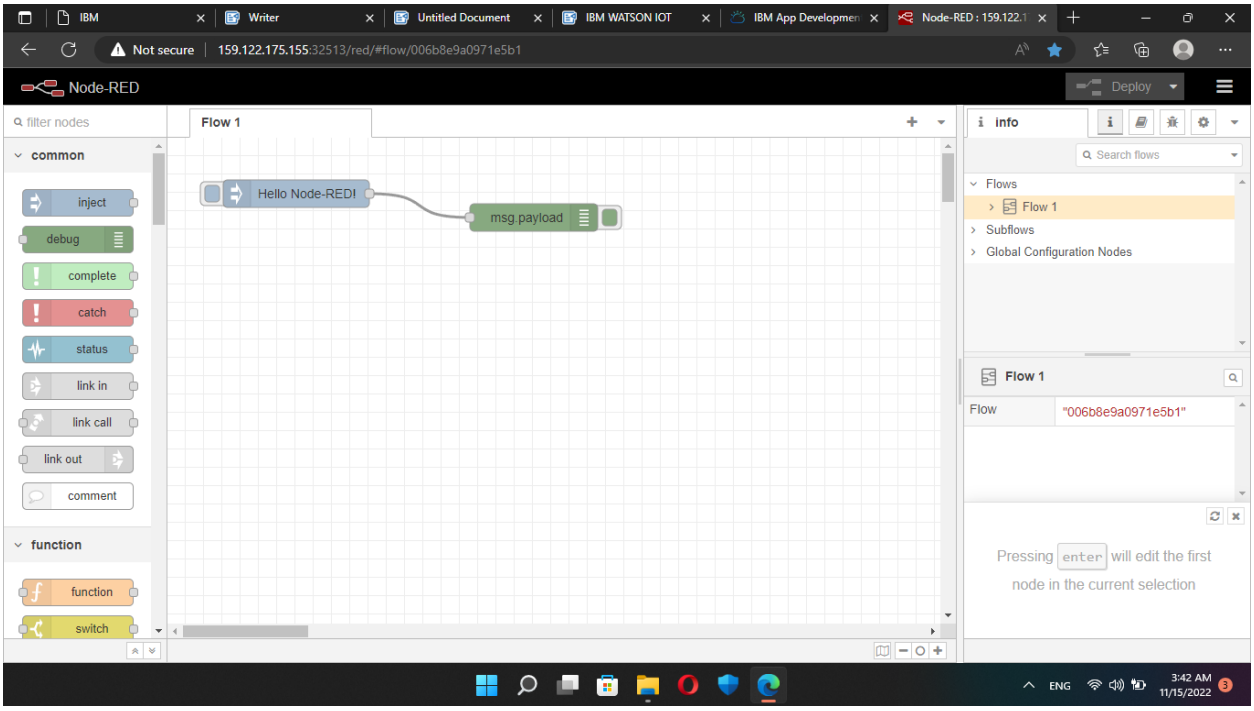
Step 4:


IBM Cloud
Search resources and products...
Catalog
Manage
Kenywod A C's Account
Resource list / App details /
PNT2022TMID49683
Add tags
Actions...
Details
App URL
You must deploy your app first
Source
https://eu-gb.git.cloud.ibm.com/950419104020/PNT2022TMID496...
Resource group
Default
Deployment target
You must deploy your app first
Created
11/15/2022
Deployment Automation
Name
PNT2022TMID49683
Location
London
Tool integrations
Delivery Pipelines
Name
pr-pipeline
Status
No stages detected
Name
ci-pipeline
Status
In progress
Services
Cloudant
Open dashboard
Documentation
API reference
Credentials
Connect existing services
Create service
ASK A QUESTION

Step 5:


Not secure
159.122.175.155:32513
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

Step 6:


IBM
Writer
Untitled Document
IBM WATSON IOT
IBM App Developmen
Node-RED : 159.122.1
Not secure
159.122.175.155:32513/red/#flow/006b8e9a0971e5b1
Node-RED
Deploy
filter nodes
Flow 1
common
inject
debug
complete
catch
status
link in
link call
link out
comment
function
function
switch
Hello Node-RED!
msg.payload
info
Search flows
Flows
Flow 1
Subflows
Global Configuration Nodes
Flow 1
Flow
"006b8e9a0971e5b1"
Pressing enter will edit the first node in the current selection
ENG
3:42 AM
11/15/2022