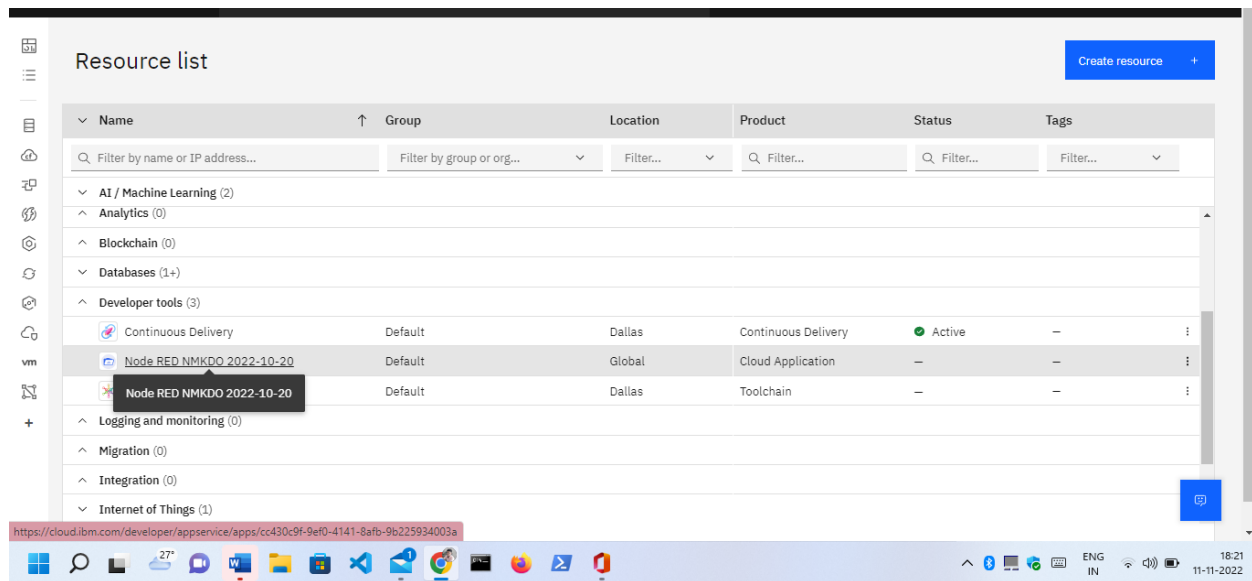


## CREATION OF NODE-RED SERVICE

# REAL TIME RIVER WATER QUALITY MONITORING AND CONTROL SYSTEM

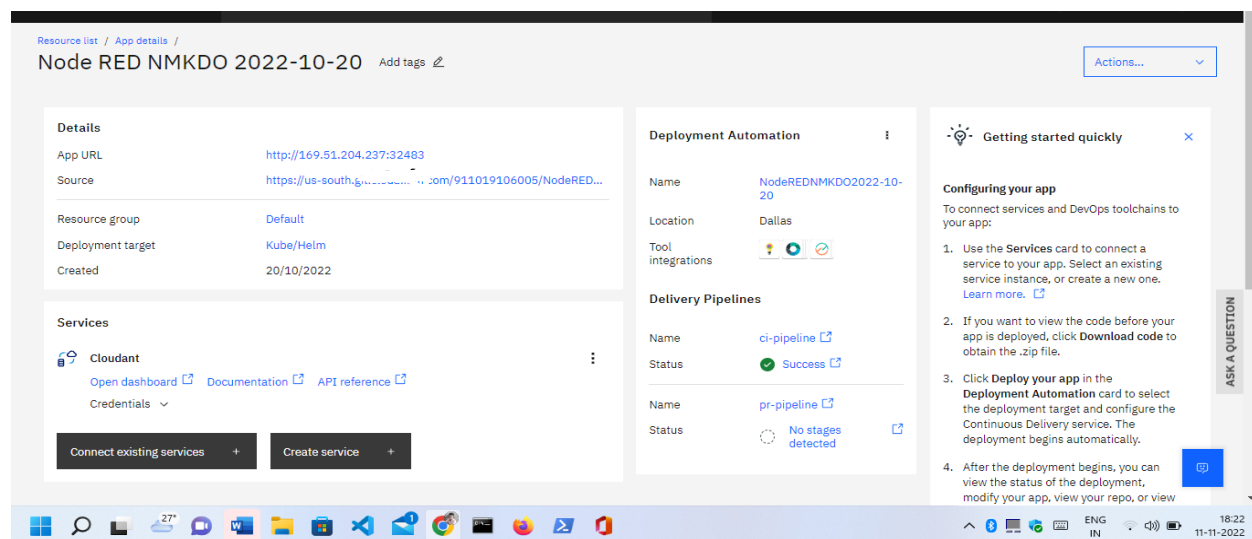
PNT2022TMID03762

## CREATION OF NODE -RED USING KUBERNET



The screenshot shows the IBM Cloud Resource list page. The table lists various resources, including Continuous Delivery, Node RED NMKDO 2022-10-20, and Logging and monitoring. The Node RED NMKDO 2022-10-20 resource is highlighted, showing its status as 'Active' and its location as 'Global'.

Name	Group	Location	Product	Status	Tags
Continuous Delivery	Default	Dallas	Continuous Delivery	Active	-
Node RED NMKDO 2022-10-20	Default	Global	Cloud Application	-	-
Node RED NMKDO 2022-10-20	Default	Dallas	Toolchain	-	-



The screenshot shows the IBM Cloud App details page for the Node RED NMKDO 2022-10-20 application. The page displays details such as the App URL, Source, Resource group, Deployment target, and Created date. It also shows the Deployment Automation status, which is 'Success', and the Delivery Pipelines, which are 'ci-pipeline' and 'pr-pipeline'.

**Details**

- App URL: <http://169.51.204.237:32483>
- Source: <https://us-south.cloud.ibm.com/911019106005/NodeRED...>
- Resource group: Default
- Deployment target: Kube/Helm
- Created: 20/10/2022

**Services**

- Cloudant: [Open dashboard](#), [Documentation](#), [API reference](#), [Credentials](#)
- Connect existing services: +
- Create service: +

**Deployment Automation**

- Name: NodeREDNMKDO2022-10-20
- Location: Dallas
- Tool integrations: [Lightbulb icon](#), [Checkmark icon](#), [X icon](#)
- Delivery Pipelines:
  - Name: ci-pipeline, Status: Success
  - Name: pr-pipeline, Status: No stages detected

**Getting started quickly**

- 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

IBM App Development | Node-RED: 169.51.204.237 | IBM Watson IoT Platform | New Tab

Not secure | 169.51.204.237:32483/red/#flow/6514eecd89bc0a21

Gmail | YouTube | Maps | https://careereduca... | LATHA MATHAVAN... | Naan Mudhalvan | MQTT Websocket C... | Create App - Free A... | MURAL is a collabo... | Other bookmarks

Node-RED

Flow 1 | Flow 2

filter nodes

- button
- dropdown
- switch
- slider
- numeric
- text input
- date picker
- colour picker
- form
- text
- chart
- audio out
- notification
- ui control
- template

msg.payload

function

gauge

ui control

button

IBM IoT

Node "ea9c3bc3b4a45f51"

Type ibmiot in

show more

28°

18:38

11-11-2022

## USING NODE.JS TO CREATE LOCAL NODE-RED

Installing the node.js .exe

In CMD enter “npm install -g --unsafe-perm node-red”

Enter “node-red”

Enter “pip install ibmiotf”

```
node-red
(c) Microsoft Corporation. All rights reserved.

C:\Users\KANNAN>node-red
11 Nov 19:03:58 - [info]

Welcome to Node-RED
=====

11 Nov 19:03:58 - [info] Node-RED version: v3.0.2
11 Nov 19:03:58 - [info] Node.js version: v18.12.0
11 Nov 19:03:58 - [info] Windows NT 10.0.22000 x64 LE
11 Nov 19:04:19 - [info] Loading palette nodes
11 Nov 19:04:54 - [info] Dashboard version 1.0.2 started at /ui
11 Nov 19:05:09 - [warn] -----
11 Nov 19:05:09 - [warn] [node-red-node-rbe/rbe] 'rbe' already registered by module node-red
11 Nov 19:05:09 - [warn] -----
11 Nov 19:05:09 - [info] Settings file : C:\Users\KANNAN\.node-red\settings.js
11 Nov 19:05:09 - [info] Context store : 'default' [module=memory]
11 Nov 19:05:09 - [info] User directory : \Users\KANNAN\.node-red
11 Nov 19:05:09 - [warn] Projects disabled : editonTheme.projects.enabled=false
11 Nov 19:05:09 - [info] Flows file : \Users\KANNAN\.node-red\flows.json
11 Nov 19:05:10 - [warn]

-----
Your flow credentials file is encrypted using a system-generated key.

If the system-generated key is lost for any reason, your credentials
file will not be recoverable, you will have to delete it and re-enter
your credentials.

You should set your own key using the 'credentialSecret' option in
your settings file. Node-RED will then re-encrypt your credentials
file using your chosen key the next time you deploy a change.
-----

11 Nov 19:05:10 - [info] Server now running at
11 Nov 19:05:10 - [info] Starting flows
11 Nov 19:05:10 - [error] [ibmiot in:61fd23b3a04816a4] TypeError: Cannot read properties of undefined (reading 'user')
11 Nov 19:05:10 - [error] [ibmiot in:5949acc0ac2111b5] TypeError: Cannot read properties of undefined (reading 'user')
11 Nov 19:05:10 - [error] [cloudant out:48ae35bc95cff399] TypeError: Cannot read properties of null (reading 'match')
11 Nov 19:05:10 - [error] [cloudant in:cdee17b8859d51b9] TypeError: Cannot read properties of null (reading 'match')
11 Nov 19:05:10 - [info] Started flows
```