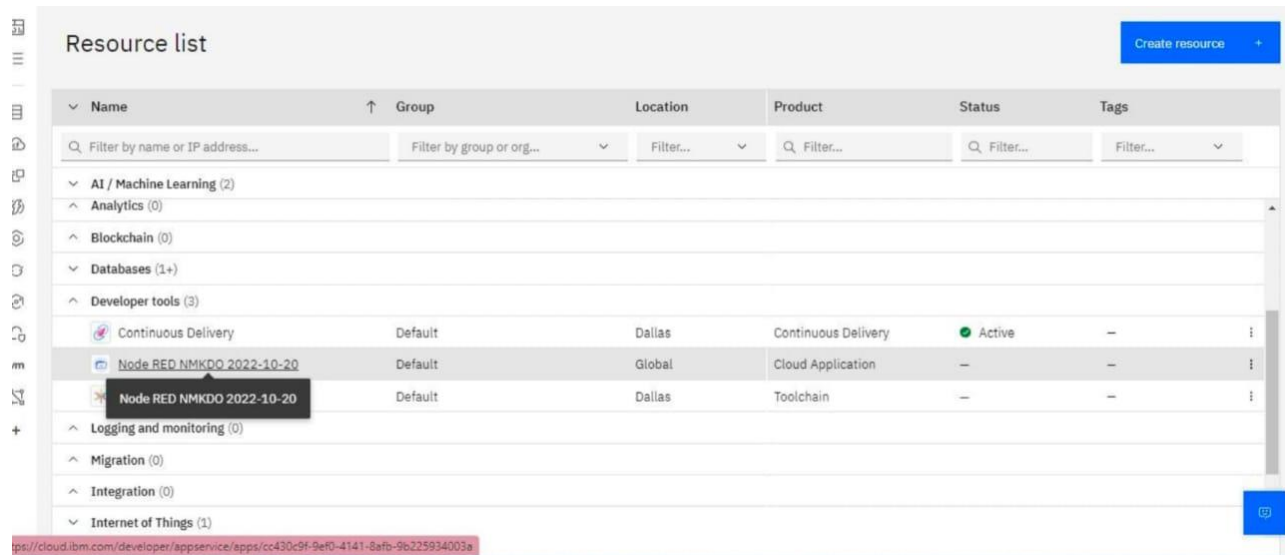


# CREATION OF NODE-RED SERVICE

## REAL TIME WATER QUALITY MONOTORING AND CONTROL SYSTEM

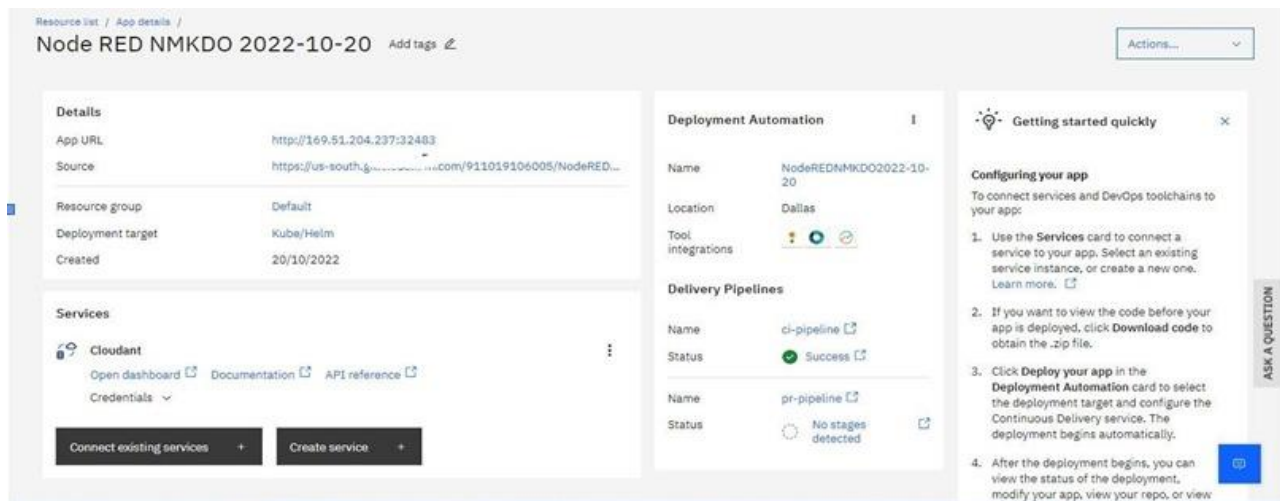
PNT2022TMID10999

CREATION OF NODE -RED USING KUBERNET:



The screenshot displays the 'Resource list' interface in IBM Cloud. It features a table with columns for Name, Group, Location, Product, Status, and Tags. The table lists several resources, including 'Continuous Delivery' (Active), 'Node RED NMKDO 2022-10-20' (Global), and 'Node RED NMKDO 2022-10-20' (Dallas). The 'Node RED NMKDO 2022-10-20' resource is highlighted with a black box. The interface also includes a search bar and a 'Create resource' button.

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 'App details' page for 'Node RED NMKDO 2022-10-20'. It includes a 'Details' section with fields for App URL, Source, Resource group, Deployment target, and Created. The 'Services' section lists 'Cloudant' with links to Open dashboard, Documentation, and API reference. The 'Deployment Automation' section shows the 'ci-pipeline' and 'pr-pipeline' with their respective statuses. A 'Getting started quickly' sidebar provides instructions on configuring the app.

**Details**

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

**Services**

- Cloudant
  - Open dashboard
  - Documentation
  - API reference
  - Credentials

**Deployment Automation**

- Name: NodeREDNMKDO2022-10-20
- Location: Dallas
- Tool integrations: [Icons]
- Delivery Pipelines
  - Name: ci-pipeline, Status: Success
  - Name: pr-pipeline, Status: No stages detected

**Getting started quickly**

- Use the **Services** card to connect a service to your app. Select an existing service instance, or create a new one. [Learn more.](#)
- If you want to view the code before your app is deployed, click **Download code** to obtain the .zip file.
- Click **Deploy your app** in the **Deployment Automation** card to select the deployment target and configure the Continuous Delivery service. The deployment begins automatically.
- After the deployment begins, you can view the status of the deployment, modify your app, view your repo, or view

# 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.

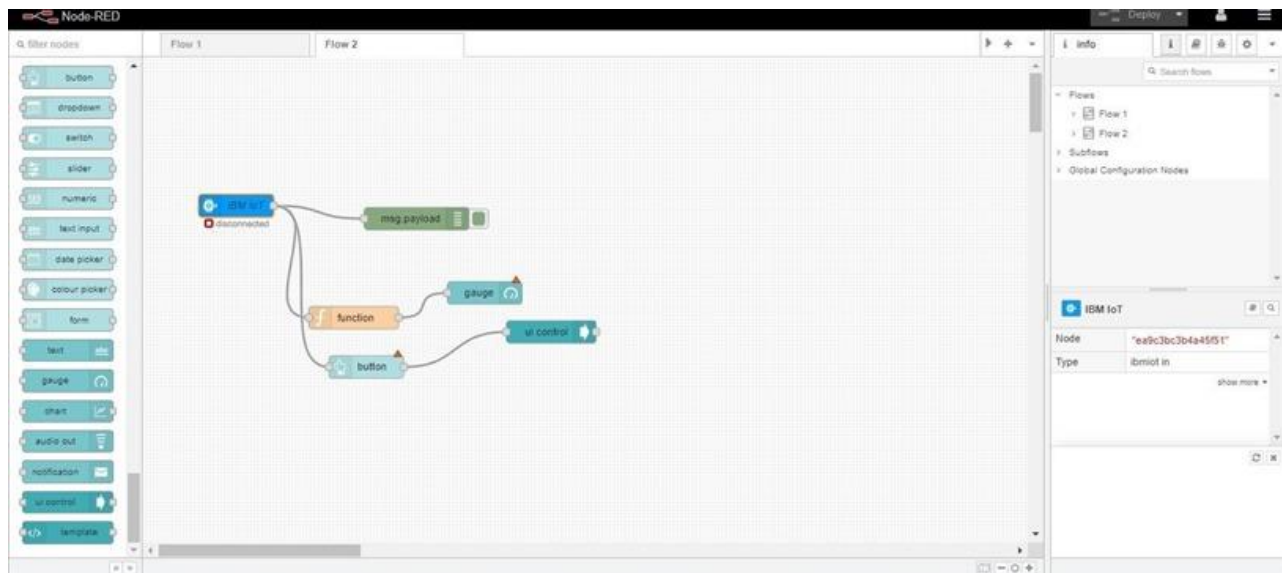
This instance is running as an IBM Cloud application, giving it access to the wide range of services available on the platform.

More information about Node-RED, including documentation, can be found at [nodered.org](http://nodered.org).

[Go to your Node-RED flow editor](#)

[Learn how to customise Node-RED](#)

## Customising your instance of Node-RED



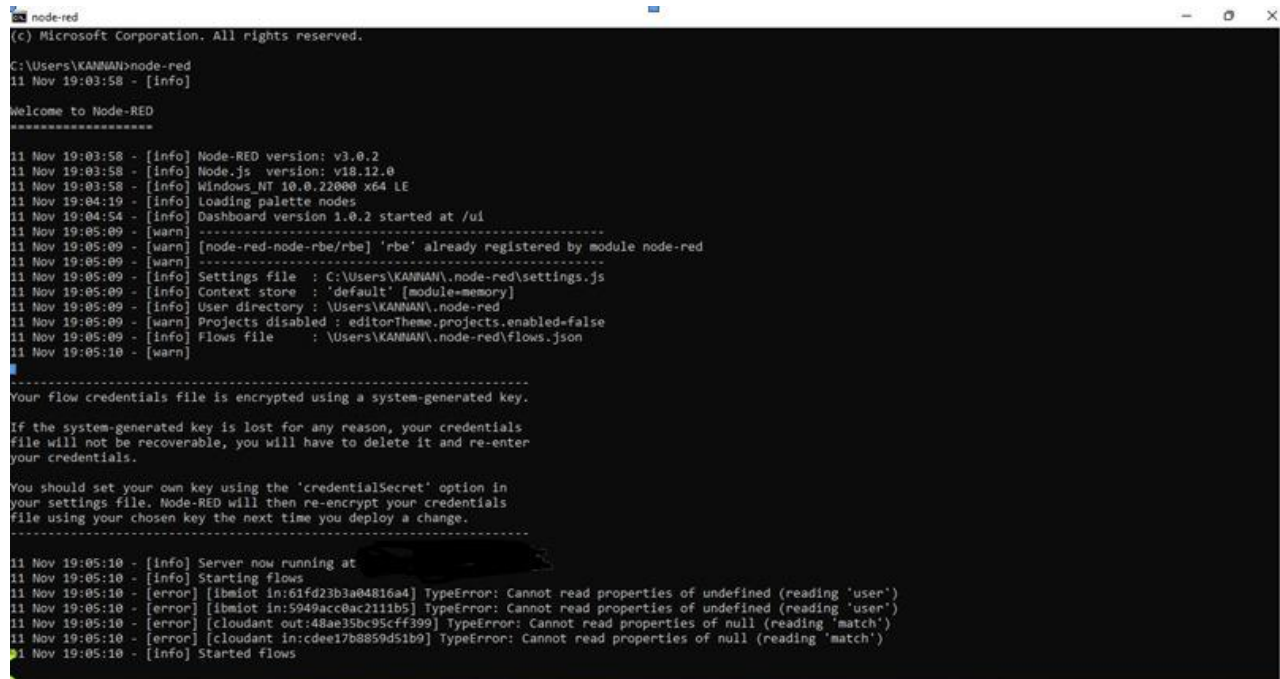
## USING NODE.JS TO CREATE LOCAL NODE-RED

Installing the node.js .exe

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

Enter “node-red”

Enter “pip install ibmiotf”



```
(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 : editorTheme.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 http://127.0.0.1:1880
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:48ae35bc95c4ff399] 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
```