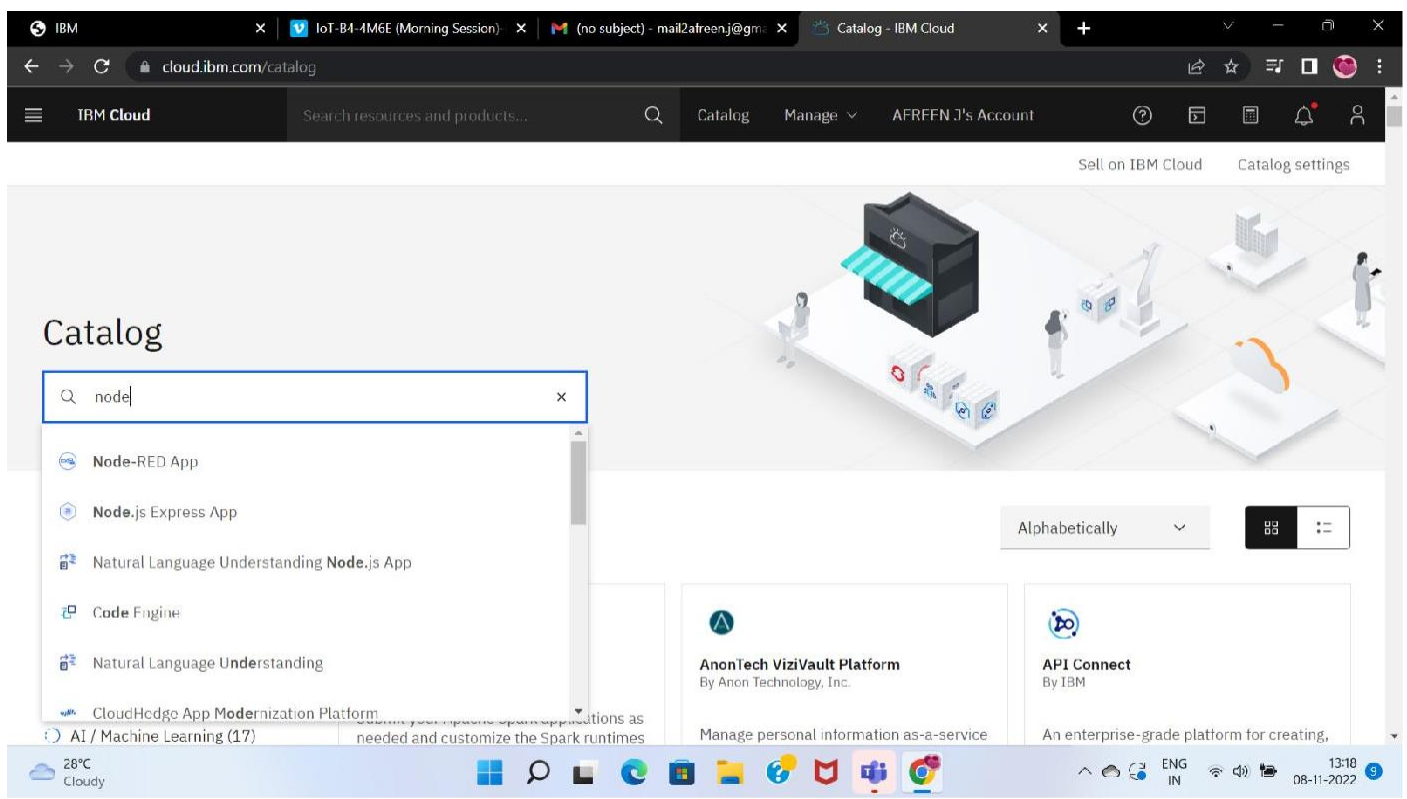


# CREATE NODE-RED SERVICES

Team ID	PNT2022TMID14057
Project name	Signs with Smart Connectivity for Better Road Safety

## STEPS TO CREATE:

STEP-1: Login to ibm cloud and seard for node red in catalog.



**STEP-2:** Click onto the create tab and check all the details and select next.

The screenshot shows the 'create-app' page for Node-RED on the IBM Cloud Developer App Service. The 'Create' tab is selected. The 'App details' section includes the following fields:

- App name:** Node RED TTDWU 2022-11-08
- Resource group:** Default
- Tags:** Examples: env:dev, version-1
- Platform:** Node.js

The bottom of the page shows a Windows taskbar with various application icons and a system tray indicating 28°C Cloudy, 13:18, and 08-11-2022.

**STEP-3:** Now select on deploy your app option and wait for 10 to 15 minutes until app url is available.

The screenshot shows the 'App details' page for the app 'Node RED TTDWU 2022-11-08'. The 'Details' section shows the app URL and source code download button. The 'Deployment Automation' section shows the 'Deploy your app' button.

**Details**

Field	Value
App URL	You must deploy your app first
Source	<a href="#">Download code</a>
Resource group	<a href="#">Default</a>
Deployment target	You must deploy your app first
Created	11/8/2022

**Services**

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

**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](#)

The bottom of the page shows a Windows taskbar with various application icons and a system tray indicating 28°C Cloudy, 13:19, and 08-11-2022.

**STEP-4:** Select the cloud foundry box and in the right column click on org hyperlink.

The screenshot shows the IBM Cloud Developer console. The main area displays three deployment targets: Kubernetes Service, Red Hat OpenShift, and Cloud Foundry. The Cloud Foundry option is highlighted. The right sidebar shows a 'Getting started with apps' section with 'Step 1. Select the deployment target'.

**Deployment target**

- 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.

**Getting started with apps**

**Step 1. Select the deployment target**

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

IBM Cloud Kubernetes Service

Kubernetes is an open source platform for managing containerized workloads and services across multiple hosts, and offers management tools for deploying, automating, monitoring, 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

**STEP-5:** Click on the create button and enter all the required details.

The screenshot shows the IBM Cloud Account console. The left sidebar shows the 'Account' menu with 'Cloud Foundry orgs' selected. The main area displays 'Cloud Foundry Orgs' with a table listing the existing org 'Afreen18'. A 'Create' button is visible in the top right.

**Cloud Foundry Orgs**

IBM Cloud Foundry Public is being deprecated. Please see [full details.](#)

Create

Name	Date Created	Spaces	Roles	Actions
<a href="#">Afreen18</a>	11/8/2022	1	Manager	

**STEP-6:** Click on the visit app url hyperlink and it gets directed to node-red website.

The screenshot shows the IBM Cloud console interface. The top navigation bar includes the IBM logo, search bar, and user account 'AFREEN J's Account'. The main content area displays the application details for 'Node RED ILUPV 2022-11-08', which is in a 'Running' state. A sidebar on the left lists navigation options: Getting started, Overview (selected), Runtime, Connections, Logs, API Management, and Autoscaling. The main panel shows the 'Instances' section with a health status of 100% and 1/1 instance(s) running. It also features a slider for 'MB memory per instance' set to 256. To the right, the 'Runtime' section shows a donut chart for 'Node.js' with a total MB allocation of 256 and 1.75 GB still available. A notification banner at the top states 'IBM Cloud Foundry Public is being deprecated. Please see full details.'

**STEP-7:** Here click on go to your NODE-RED flow editor.

The screenshot shows the Node-RED website as it appears on the IBM Cloud platform. The page has a dark header with 'Node-RED on IBM Cloud'. The main content area has a large red banner with the text 'Node-RED' and 'Flow-based programming for the Internet of Things'. Below the banner, there is a section with text describing Node-RED as a programming tool for wiring together hardware devices, APIs, and online services. A prominent button labeled 'Go to your Node-RED flow editor' is highlighted with a red box. Below this button is a link that says 'Learn how to customise Node-RED'. The footer of the page includes a weather widget showing '28°C Cloudy' and a system tray with various icons and the date '08-11-2022'.

## STEP-8: Finally NODE-RED workspace is now available.

The screenshot displays the Node-RED web interface in a browser. The address bar shows the URL: `node-red-ilupv-2022-11-08.eu-gb.mybluemix.net/red/#flow/07640fef98bdd288`. The interface includes a left sidebar with a node palette containing 'common' and 'function' categories. The main workspace, titled 'Flow 1', shows a flow with two nodes: a 'timestamp' node (blue) and a 'msg.payload' node (green). A curved line connects the output of the 'timestamp' node to the input of the 'msg.payload' node. On the right, a 'debug' console displays three log entries, each showing a timestamp, a node ID, and a message payload. The system tray at the bottom indicates a temperature of 28°C, a cloudy sky, and the date 08-11-2022.

Node-RED interface showing a flow with a `timestamp` node connected to a `msg.payload` node. The debug console displays the following log entries:

```
11/8/2022, 1:20:30 PM f2f2649a.0d0d98  
msg.payload : number  
1667893831053  
11/8/2022, 1:20:31 PM node: f2f2649a.0d0d98  
msg.payload : number  
1667893832068  
11/8/2022, 1:20:32 PM node: f2f2649a.0d0d98  
msg.payload : number  
1667893833077
```