

## **Create And Configure IBM Cloud Service**

### **Create Node-RED Service**

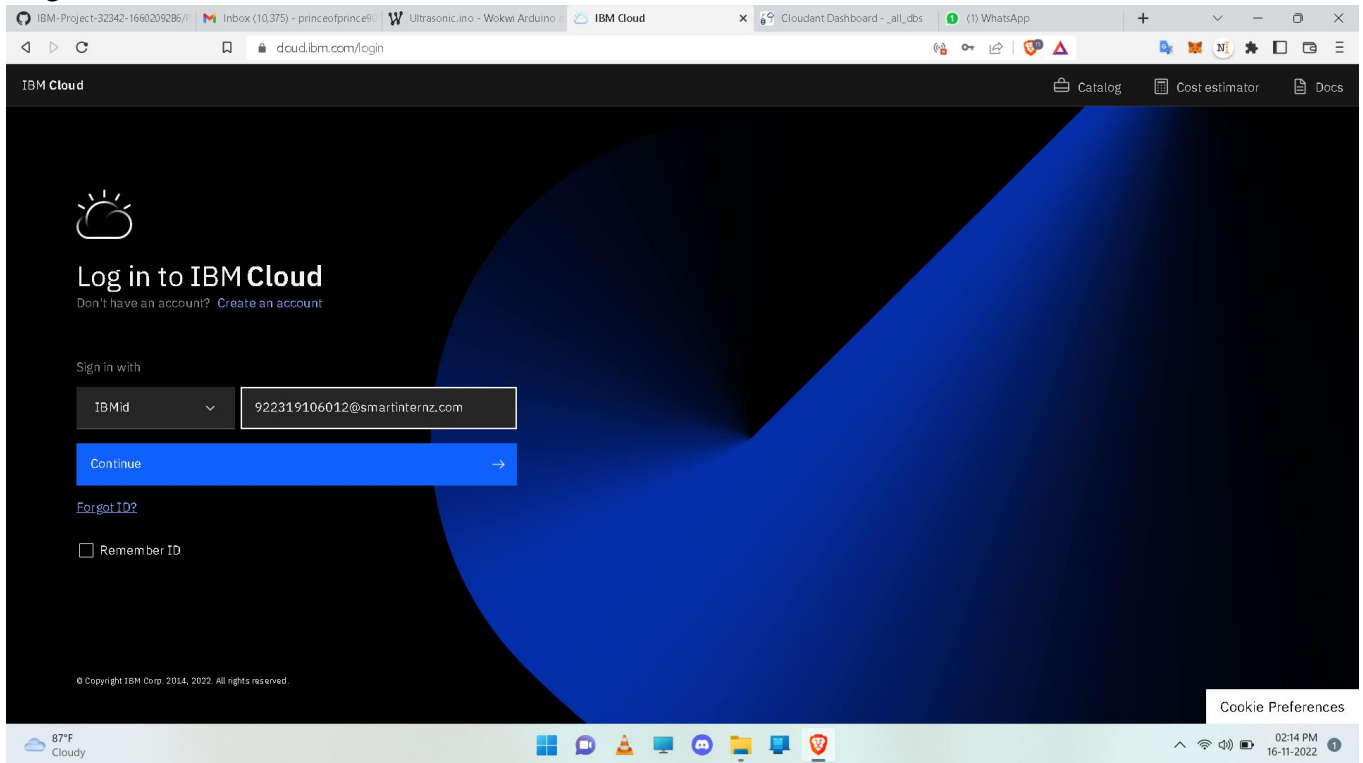
|                      |                                                                               |
|----------------------|-------------------------------------------------------------------------------|
| <b>Date</b>          | <b>16 November 2022</b>                                                       |
| <b>Team ID</b>       | PNT2022TMID49271                                                              |
| <b>Project Name</b>  | <b>IoT Based Safety Gadget For Child Safety Monitoring &amp; Notification</b> |
| <b>Maximum Marks</b> | <b>4 Marks</b>                                                                |

### **AIM**

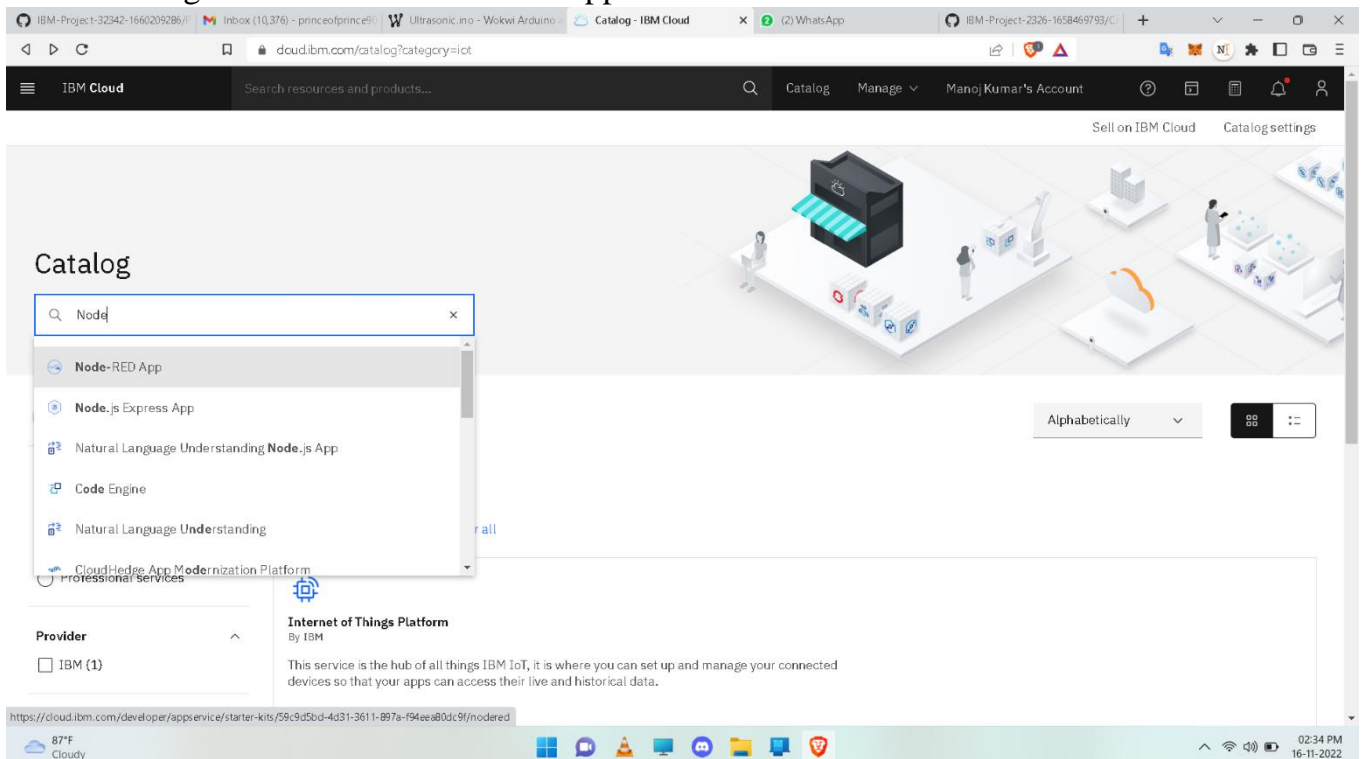
To Create Node-RED service.

### **STEPS**

## 1. Login to IBM Cloud with smart internz mail ID and Password.



## 2. Go to Catalog and Search for Node-red App in the search bar.



### 3. Open Node-red App and click get start.

The screenshot shows the IBM Cloud developer portal for the Node-RED app. The 'About' tab is selected, displaying details about the app, including its author (IBM), updated date (2/11/2020), and type (Starter kit). The 'Overview' section describes the starter kit's purpose: to provide a pre-configured Node-RED application with a Cloudant service for storing application flow configuration. It also lists what the starter kit will help you do: generate an application with Node-RED, generate an application with files for deploying to Cloud Foundry or a DevOps Pipeline, and connect to provisioned services. A 'What's included?' section shows the Cloudant service, which is free to start. A 'Get started' button is prominently displayed at the bottom of the main content area.

### 4. In next page click create.

The screenshot shows the same IBM Cloud developer portal for the Node-RED app, but with the 'Create' tab selected. The 'App details' section contains a form for creating a new app. The 'App name' field is filled with 'Node RED DANMO 2022-11-17'. Below it, a note states: 'Accept the default name, or enter a value between 2 and 128 characters.' The 'Resource group' is set to 'Default'. The 'Tags' field is empty, with examples provided: 'env:dev, version-1'. The 'Platform' is set to 'Node.js'. The 'Service details' section is partially visible at the bottom.

5. Click Deploy your app and it come to this page and select cloud foundry.

The image consists of two screenshots of the IBM Cloud Developer console, showing the deployment process for a Node RED application.

**Top Screenshot: Node RED OTAQE 2022-11-17**

- Details:** App URL, Source (Download code), Resource group (Default), Deployment target (You must deploy your app first), Created (11/17/2022).
- Services:** Cloudant (Open dashboard, Documentation, API reference, Credentials). Buttons: 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. Button: Deploy your app.
- 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 sure to commit them to the repository.

**Bottom Screenshot: Deployment Automation**

Select your deployment target and configure your DevOps toolchain. After you click **Create**, the toolchain is created, and the deployment process is started automatically.

**Deployment target:**

- Kubernetes Service:** Deploy, scale, and manage your containerized application workloads to highly available clusters.
- Red Hat OpenShift:** Deploy your apps on highly available clusters that come installed with Red Hat OpenShift on IBM Cloud.
- Cloud Foundry:** Deploy and run your applications without managing servers or clusters. A Lite plan is available for quick and easy deployment.
- Code Engine:** Run your app, job, or container on a managed serverless platform. Auto-scale workloads, and pay only for the resources that you consume.

**IBM Cloud Foundry Public is deprecated.** [Learn more](#)

**IBM Cloud API key:** [Redacted] [New](#)

**Number of instances:** 1

**Memory allocation per instance:** [Redacted]

**Step 1. Select the deployment target**

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

**IBM Cloud Foundry**

Cloud Foundry is the premier industry standard Platform-as-a-Service (PaaS) that ensures fast, easy, and reliable deployment of cloud-native apps. Cloud Foundry ensures that the build and deploy aspects of coding remain carefully coordinated with any attached services – resulting in quick, consistent and reliable iterating of applications. Cloud Foundry has a Lite plan that allows quick deployments for testing purposes.

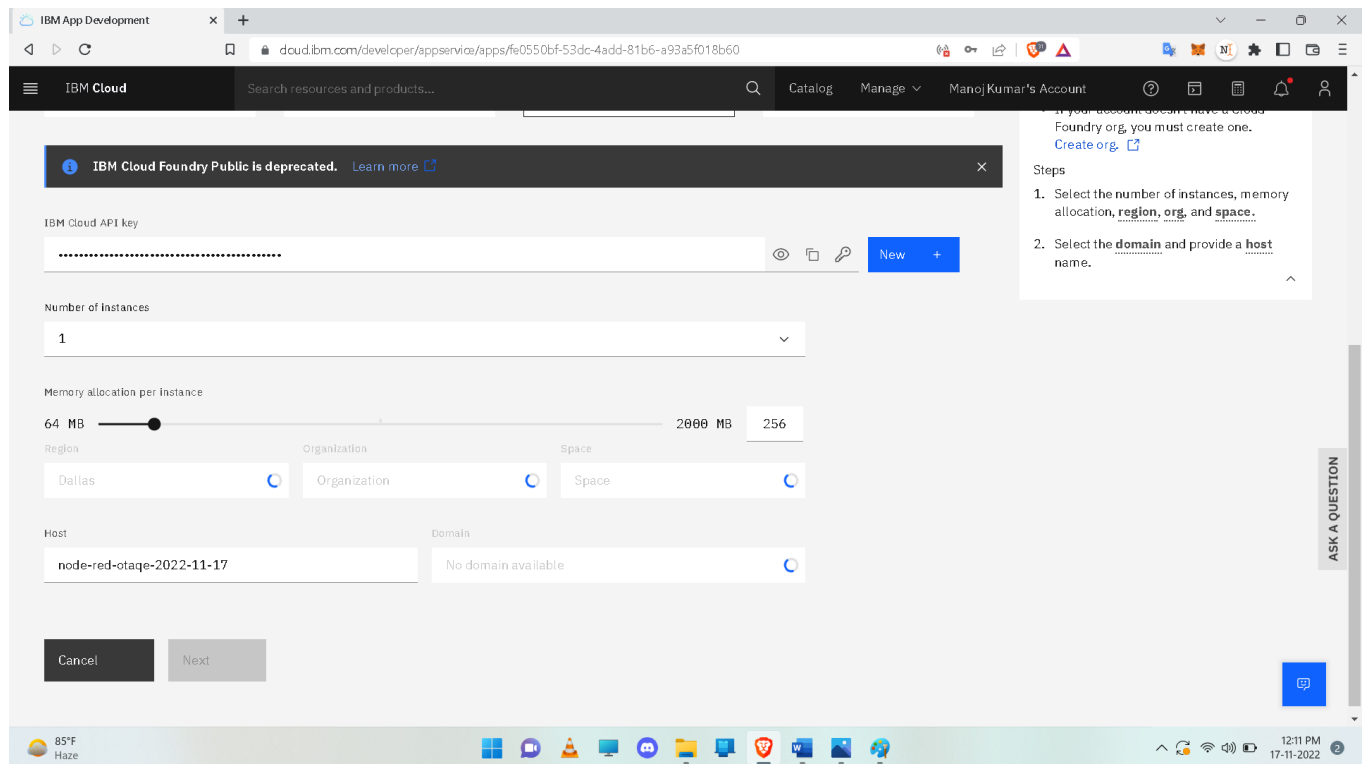
**Before you begin**

- If your account doesn't have a Cloud Foundry org, you must create one. [Create org.](#)

**Steps**

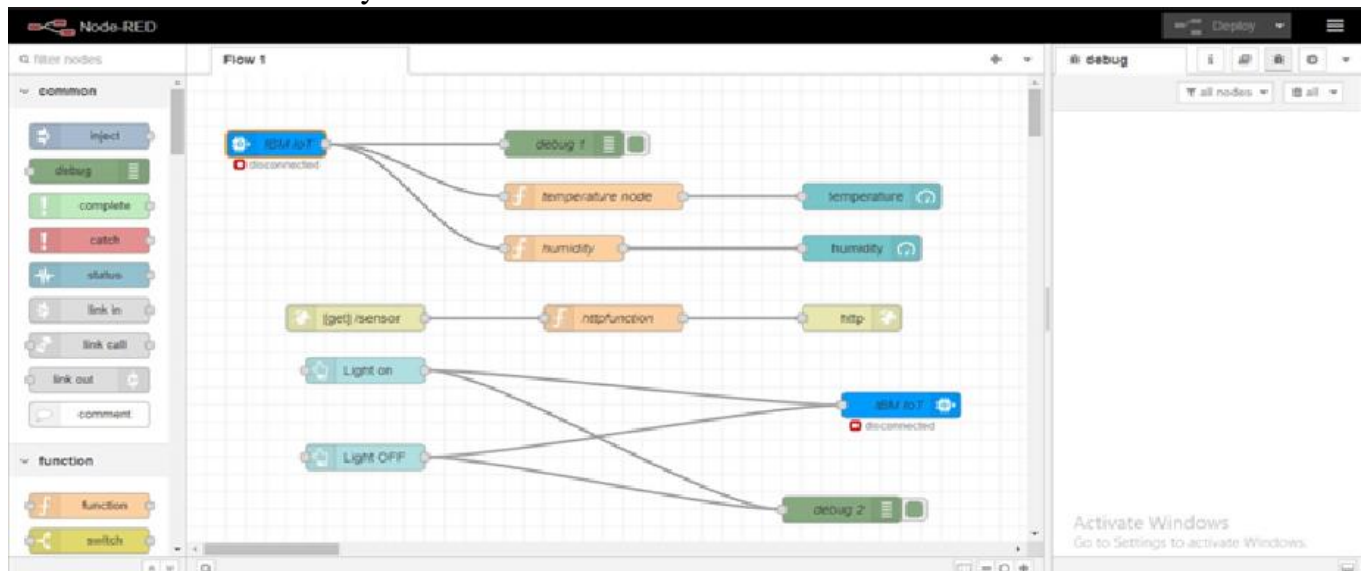
1. Select the number of instances, memory allocation, **region**, **org**, and **space**.
2. Select the **domain** and provide a **host** name.

## 6. Setting up the environment and deploying the app.



## 7. Successfully creating the app.

And it's work Successfully



**RESULT:**

Successfully created the Node-RED service.