

Create And Configure IBM Cloud Service

Create Node-RED Service

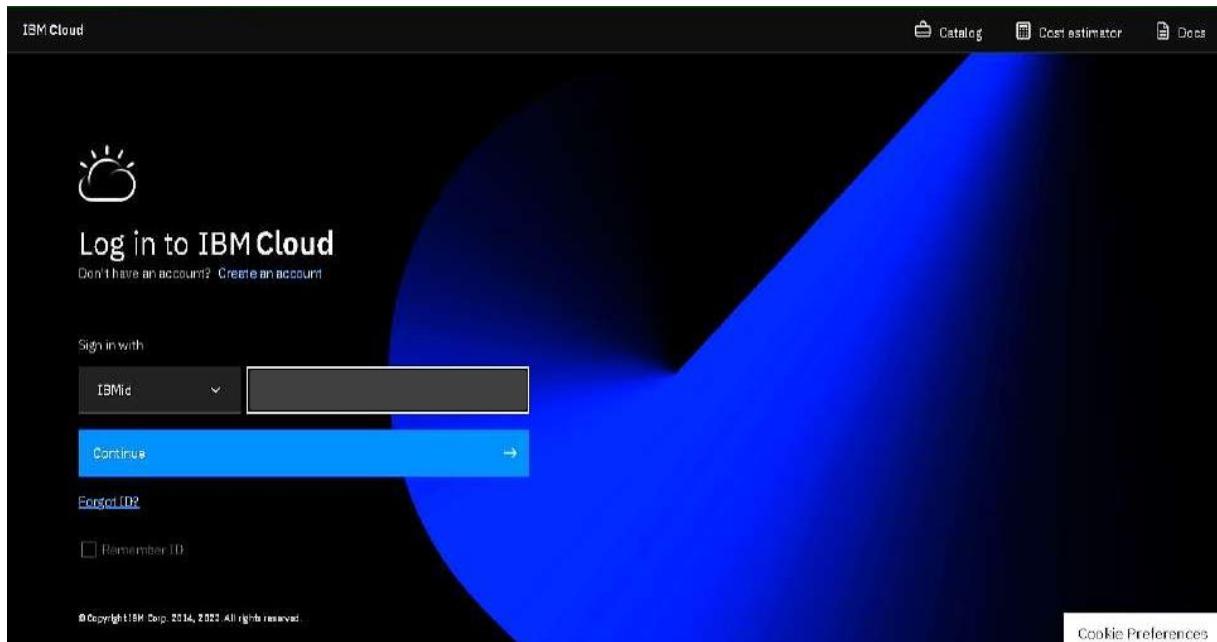
Team ID	PNT2022TMID38861
Project Name	IoT Based Safety Gadget For Child Safety Monitoring & Notification
Maximum Marks	4 Marks

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.

The screenshot shows the IBM Cloud Catalog interface. At the top, there is a search bar with the text "Node-RED" and a magnifying glass icon. Below the search bar, the heading "Catalog" is displayed. To the right of the search bar, there is a button labeled "Sell on IBM Cloud" and a link "Catalog settings". The main area shows a 3D isometric illustration of a cityscape with buildings, people, and a car. Below the illustration, the text "Viewing 348 products" is shown. On the left, a sidebar titled "Category" lists various product categories: Recommended products (6), Compute (56), Containers (9), Networking (30), Storage (24), AI / Machine Learning (20), Analytics (26), and Blockchain (1). In the center, three product cards are visible:

- Analytics Engine** By IBM: Submit your Apache Spark applications as needed and customize the Spark runtimes to satisfy the requirements of your application. (Lite • Free • HIPAA Enabled • IAM-enabled)
- AnonTech ViziVault Platform** By Anon Technology, Inc.: Manage personal information as-a-service safely, securely, and in compliance with data privacy regulations using ViziVault. (Lite • Free • HIPAA Enabled • IAM-enabled)
- API Connect** By IBM: An enterprise-grade platform for creating, securing, managing, sharing, monitoring, and analyzing custom APIs located on-premises... (Lite • Free • EU Supported • IAM-enabled)

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

The screenshot shows the details page for the Node-RED app on the IBM Cloud. The top navigation bar has tabs "About" (selected) and "Create". The "About" tab contains sections for "Details" (Author: IBM, Updated: 2/11/2020, Type: Starter Kit), "Source code" (GitHub link), "Helpful links", "Terms" (checkbox), and "Tutorial" (checkbox). The "Overview" section describes the starter kit as providing a pre-configured Node-RED application with a Cloudant service for storing application flow configurations. It includes links to "View docs" and "View API reference". The "What's included?" section features a "Cloudant" card with the text "Free to start" and "View pricing". A large blue "Get started" button is prominently displayed at the bottom. The bottom of the screen shows a Windows taskbar with various icons and system status indicators.

4. In next page click create.

The screenshot shows the 'App details' section of the Azure portal. At the top, there are 'About' and 'Create' tabs, with 'Create' being the active tab. Below the tabs, the heading 'App details' is displayed. The 'App name' field contains 'Node RED LVS KV 2022-10-25'. A note below the field says 'Accept the default name, or enter a value between 2 and 120 characters.' The 'Resource group' dropdown is set to 'Default'. The 'Tags' input field contains 'Example: env/day; version=1'. Under the 'Platform' section, 'Node.js' is selected. On the right side of the screen, there is a vertical 'ASK A QUESTION' button.

The screenshot shows the 'Node RED LVS KV 2022-10-25' app details page. At the top, it shows the resource path 'Resource list / App details / Node RED LVS KV 2022-10-25' and an 'Actions...' dropdown. The main area is divided into two sections: 'Details' and 'Deployment Automation'. The 'Details' section includes fields for 'App URL' (with a note: 'You must deploy your app first'), 'Source' (with a 'Download code' button), 'Resource group' (set to 'Default'), 'Deployment target' (with a note: 'You must deploy your app first'), and 'Created' (10/31/2022). The 'Deployment Automation' section has a 'Configure Continuous Delivery' button and a note: 'Continuous Delivery is not enabled for this app. Enable Continuous Delivery to automate builds, tests, and deployments through Delivery Pipeline, GitHub, and more.' On the left, there is a 'Services' section with a 'Cloudant' entry, 'Open dashboard', 'Documentation', 'API reference', and a 'Credentials' dropdown. At the bottom, there are buttons for 'Connect existing services' and 'Create service'.

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

The screenshot shows the 'Getting started with apps' section of a web interface. On the left, there's a 'Deployment Automation' sidebar with a note: 'Select your deployment target and configure your DevOps toolchain. After you click Create, the toolchain is created, and the deployment process is started automatically.' Below this are four deployment target options:

- 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 Blue/Green deployment plan is available for quick and easy deployment.
- Code Engine** (IBM): Run your app, job, or container on a managed serverless platform. Auto-scale workloads, and pay only for the compute time used.

On the right, the main content area is titled 'Getting started with apps' and shows 'Step 1. Select the deployment target'. It includes a note: 'Select your deployment target, and then provide the configuration information.' Below this is a 'IBM Cloud Kubernetes Service' section with a detailed description of what Kubernetes is and how it's used. There's also a 'Before you begin' section with three steps:

- 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](#).
- Enter the container registry namespace if it's not already defined.

At the bottom right of the main content area is a 'ASK A QUESTION' button.

6. Setting up the environment and deploying the app.

The screenshot shows the 'IBM Cloud Foundry Public' deployment setup page. At the top, there's a message: 'IBM Cloud Foundry Public is deprecated. Learn more' with a 'X' button. Below this is a 'IBM Cloud API key' input field with a 'New' button and a '+' button. The form fields include:

- Number of instances:** A dropdown set to '1'.
- Memory allocation per instance:** A slider set to '64 MB' with a range from '64 MB' to '2896 MB' and a step of '256'.
- Region:** Set to 'Sydney'.
- Organization:** Set to 'Organization'.
- Space:** Set to 'Space'.
- Host:** Set to 'node-red-lvskv-2022-10-25'.
- Domain:** Set to 'No domain available'.

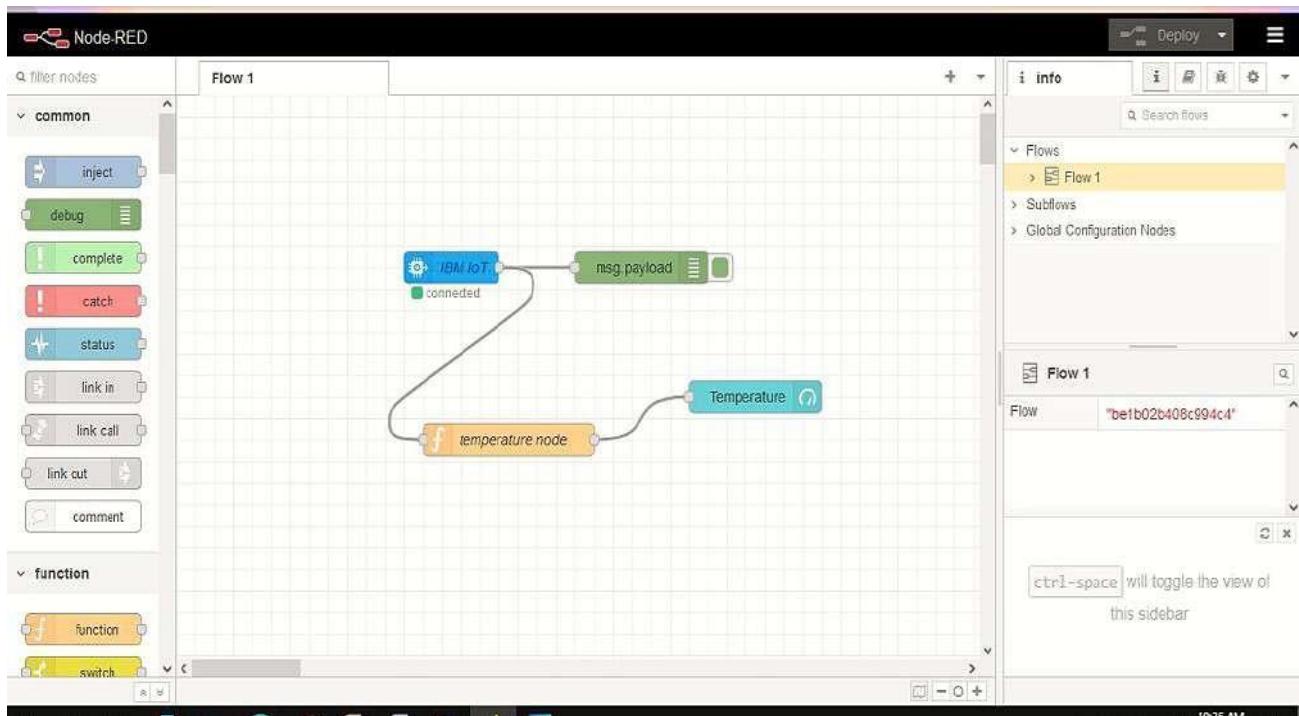
At the bottom are 'Cancel' and 'Next' buttons, and a blue 'Deploy' button on the right.

7. Successfully creating the app.

Delivery Pipelines

Name	ci-pipeline
Status	Success
Last input	Last commit by IBM Cloud DevOps Services (7 minutes ago) Clone from zip

And it's work Successfully



RESULT:

Successfully created the Node-RED service.

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