

Create Node Red service

DATE	7 NOVEMBER 2022
TEAM ID	PNT2022TMID15872
PROJECT NAME	Smart Waste Management System for Metropolitan Cities

Step 1: Login into IBM CLOUD account

Step2: In catalog, search for node red application

Q Search the catalog...

Sell on IBM Cloud Catalog settings

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Step 3: Enter the project details and click on create

Step 4: click on deploy option and deploy

The screenshot shows the 'App details' page for 'Node RED DXQJC 2022-11-02'. The page is divided into several sections:

- Details:** A table showing app information. The 'App URL' and 'Deployment target' fields indicate that the app must be deployed first. The 'Source' field has a 'Download code' button. The 'Resource group' is 'Default' and the 'Created' date is '11/2/2022'.
- Services:** A section for managing services. It shows 'Cloudant' as a connected service with links to its dashboard, documentation, and API reference. There are buttons to 'Connect existing services' and 'Create service'.
- Deployment Automation:** A section for configuring continuous delivery. It states that continuous delivery is not enabled for this app and provides a 'Deploy your app' button.
- Getting started quickly:** A sidebar on the right with a list of steps for configuring the app and deploying it.

The 'Getting started quickly' sidebar contains the following steps:

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

Step 5: Set up the environment for deploying and click on create

The screenshot shows the 'Deployment Automation' configuration page. It is divided into two main sections: 'Select the deployment target' and 'Configure the DevOps toolchain'.

Select the deployment target: This section displays four options for deployment targets:

- 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.

Configure the DevOps toolchain: This section contains a form for configuring the toolchain. It includes a field for the 'IBM Cloud API key' and a 'New' button. Below this, there is a 'Note' stating: 'Your cluster status must be available before you can select it.' The form also includes dropdown menus for 'Container registry region', 'Container registry namespace', 'Cluster region', 'Cluster resource group', 'Cluster namespace', and 'Cluster name'. The 'Cluster name' dropdown currently shows 'No clusters available'.

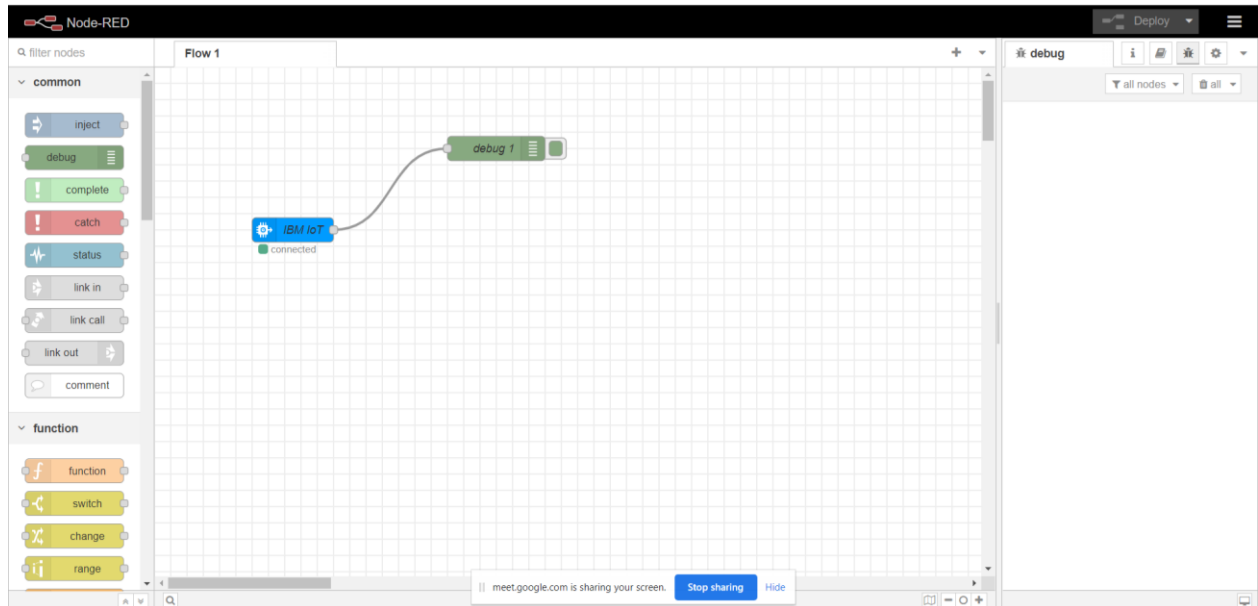
Getting started with apps: A sidebar on the right provides a guide for getting started with apps. It includes a list of steps for selecting the deployment target and configuring the toolchain.

The 'Getting started with apps' sidebar contains the following steps:

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

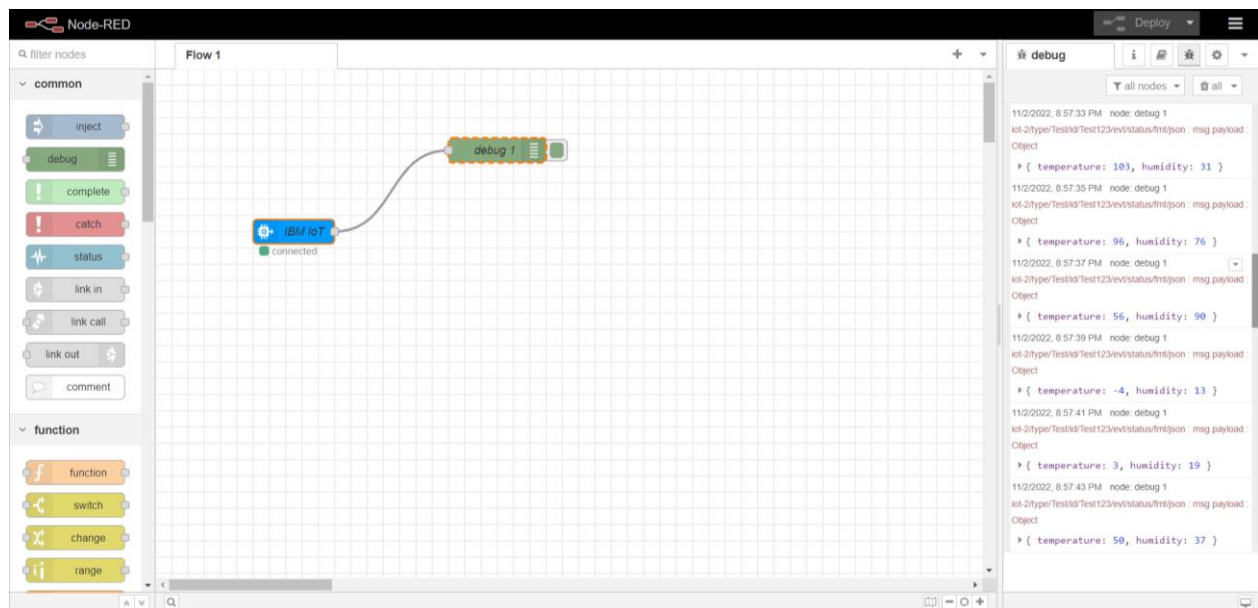
IBM Cloud Kubernetes Service
Kubernetes is an open source platform for managing containerized workloads and services across multiple hosts, and offers management tools for deploying, automating, monitoring, and scaling containerized apps with minimal to no manual intervention. [Learn more.](#)
- Before 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
 1. Create an IBM Cloud API key, or select an existing one from a secrets store.
 2. Select the container registry region.
 3. Enter the container registry namespace if it is not already completed.
 4. Select the region where your Kubernetes cluster is located.
 5. Select the resource group, cluster namespace, and the cluster name.

Step 6: Now drag and drop the nodes and connect nodes with IOT Watson platform



Step 7: setup the settings that connects node red service with Watson IOT

Step 8: Finally, output can be seen in node red service



```
11 Nov 12:34:32 - [info] Dashboard version 3.2.0 started at /ui
11 Nov 12:34:32 - [info] Settings file : C:\Users\ANDORA_EDITH\node-red\settings.js
11 Nov 12:34:32 - [info] Context store : 'default' [module=memory]
11 Nov 12:34:32 - [info] User directory : \Users\ANDORA_EDITH\node-red
11 Nov 12:34:32 - [warn] Projects disabled : editorTheme.projects.enabled=false
11 Nov 12:34:32 - [info] Flows file : \Users\ANDORA_EDITH\node-red\flows.json
11 Nov 12:34:32 - [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 12:34:32 - [info] Server now running at http://127.0.0.1:1890/
11 Nov 12:34:32 - [info] Starting flows
11 Nov 12:34:32 - [info] Started flows
11 Nov 12:47:51 - [info] Stopping flows
11 Nov 12:47:51 - [info] Stopped flows
Terminate batch job (Y/N)? y

C:\Users\ANDORA_EDITH>color a
C:\Users\ANDORA_EDITH>node-red
11 Nov 12:48:03 - [info]

Welcome to Node-RED

-----
11 Nov 12:48:03 - [info] Node-RED version: v3.0.2
11 Nov 12:48:05 - [info] Node.js version: v16.17.1
11 Nov 12:48:03 - [info] Windows_NT 10.0.19045 x64 LE
11 Nov 12:48:04 - [info] Loading palette nodes
11 Nov 12:48:05 - [info] Dashboard version 3.2.0 started at /ui
11 Nov 12:48:05 - [info] Settings file : C:\Users\ANDORA_EDITH\node-red\settings.js
11 Nov 12:48:05 - [info] Context store : 'default' [module=memory]
11 Nov 12:48:05 - [info] User directory : \Users\ANDORA_EDITH\node-red
11 Nov 12:48:05 - [warn] Projects disabled : editorTheme.projects.enabled=false
11 Nov 12:48:05 - [info] Flows file : \Users\ANDORA_EDITH\node-red\flows.json
11 Nov 12:48:05 - [warn]

-----
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You should set your own key using the 'credentialSecret' option in
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file using your chosen key the next time you deploy a change.
-----

11 Nov 12:48:05 - [info] Server now running at http://127.0.0.1:1890/
11 Nov 12:48:05 - [info] Starting flows
11 Nov 12:48:05 - [info] Started flows
```

