

Create Node Red service

Team ID	PNT2022TMID28057
Project Name	Smart waste management system for metropolitan cities

Step 1: Login into IBM CLOUD account

Step2: In catalog, search for node red application

The screenshot displays the IBM Cloud Catalog interface. On the left, there are filters for 'Location' (Dallas, Frankfurt, London, Montreal, Osaka, Sao Paulo) and 'Support' (IBM supported, Third party supported). The main area shows search results for 'Node-RED App' by IBM. The app is described as 'Start building your next Node-RED app on IBM Cloud.' and lists starter kits including 'IBM Cloud Kubernetes Service' and 'Red Hat OpenShift'. A large blue diamond watermark is overlaid on the center of the image.

Search the catalog...

Sell on IBM Cloud Catalog settings

Location

- ☐ Dallas
- ☐ Frankfurt
- ☐ London
- ☐ Montreal
- ☐ Osaka
- ☐ Sao Paulo

Show more

Support

- ☐ IBM supported
- ☐ Third party supported

Delphix DevOps Data Platform for IBM Cloud
By catalog:filter.ibm_third_party
Deliver terabytes of data in minutes to accelerate application development in IBM Cloud.
Terraform • IBM Cloud Schematics • Third party supported

GeneXus
By GeneXus
Develop apps in the most efficient way: Agile development tool that generates anything from databases to code,...

Go Gin App
By IBM
Start building your next Go Gin app on IBM Cloud.
Starter kits • IBM Cloud Kubernetes Service • Red Hat OpenShift

Java Liberty App
By IBM
Start building your next Java Liberty app on IBM Cloud.
Starter kits • IBM Cloud Kubernetes Service • Red Hat OpenShift

Java Spring App
By IBM
Start building your next Java Spring app on IBM Cloud.
Starter kits • IBM Cloud Kubernetes Service • Red Hat OpenShift

Node-RED App
By IBM
Start building your next Node-RED app on IBM Cloud.
Starter kits • IBM Cloud Kubernetes Service • Red Hat OpenShift

Node.js Express App
By IBM
Start building your next Node.js Express app on IBM Cloud.

PAYTESTER
By CLAI PAYMENTS USA LLC
Test any payment system from any channel, and get rid of the complexity of testing multiple channels and transactions.

Plesk
By Plesk International GmbH
Plesk is the leading WebOps platform to build, secure and run websites, applications and hosting businesses.

Step 3: Enter the project details and click on create

Step 4: click on deploy option and deploy

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

- Details:** A table showing app information.

Field	Value
App URL	You must deploy your app first
Source	Download code
Resource group	Default
Deployment target	You must deploy your app first
Created	11/2/2022
- Services:** A section for managing services, currently showing 'Cloudant' with links to 'Open dashboard', 'Documentation', and 'API reference'. It also includes a 'Credentials' dropdown and buttons for 'Connect existing services' and 'Create service'.
- Deployment Automation:** A section titled 'Configure Continuous Delivery' with a message: 'Continuous Delivery is not enabled for this app. Enable Continuous Delivery to automate builds, tests, and deployments through Delivery Pipeline, GitLab, and more.' Below this is a prominent blue button labeled 'Deploy your app' with a cloud icon.
- Getting started quickly:** A sidebar on the right with a list of steps for configuring the app and deploying it.

A large blue diamond-shaped watermark with the text 'Wondershare PDFelement' is overlaid on the center of the page.

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


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


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**
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.

**Code Engine**
IBM
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 API key

.....

Container registry region

Dallas

Container namespace

jbmfyhfuw...nfcumphsw

Cluster region

Frankfurt

Cluster resource group

Default

Cluster namespace

default

Cluster name

mycluster-free

Deployment type

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.](#)

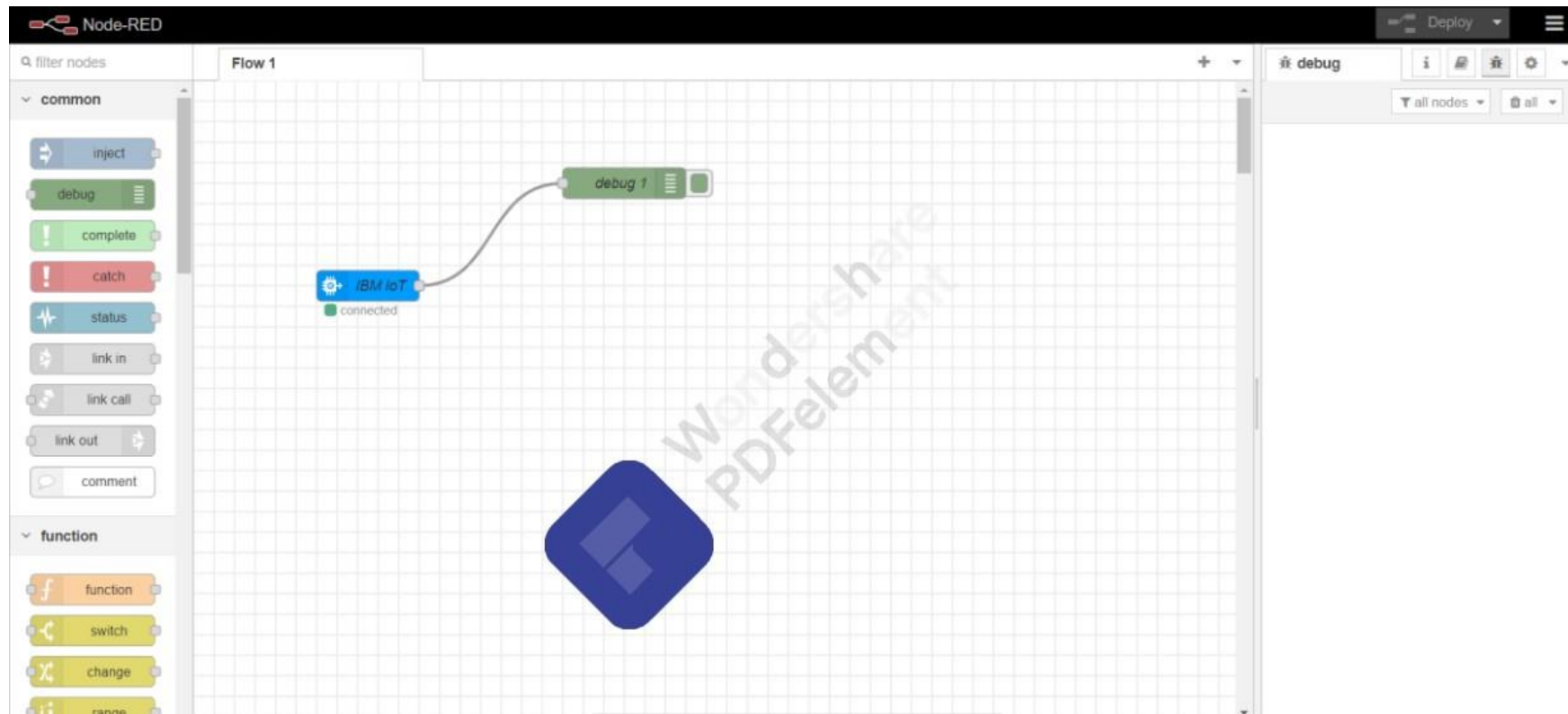
Before you begin

- 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

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 IO

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

The screenshot shows the Node-RED web interface. On the left, the 'common' nodes palette is visible, including 'inject', 'debug', 'complete', 'catch', 'status', 'link in', 'link call', 'link out', and 'comment'. The 'function' nodes palette includes 'function', 'switch', 'change', and 'range'. In the center workspace, a flow named 'Flow 1' is shown with an 'IBM IoT' node (blue) connected to a 'debug 1' node (green). The 'IBM IoT' node has a 'connected' status indicator. On the right, the 'debug' console shows a log of messages. The messages are JSON objects containing temperature and humidity data, such as: { temperature: 103, humidity: 31 }, { temperature: 96, humidity: 76 }, { temperature: 56, humidity: 90 }, { temperature: -4, humidity: 13 }, { temperature: 3, humidity: 19 }, and { temperature: 50, humidity: 37 }.

```
11 Nov 12:34:32 - [info] Dashboard version 3.2.0 started at /ui
11 Nov 12:34:32 - [info] Settings file : C:\Users\ARORA_EDITHA\node-red\settings.js
11 Nov 12:34:32 - [info] Context store : 'default' [module-memory]
11 Nov 12:34:32 - [info] User directory : \Users\ARORA_EDITHA\node-red
11 Nov 12:34:32 - [warn] Projects disabled : editorTheme.projects.enabled=false
11 Nov 12:34:32 - [info] Flows file : \Users\ARORA_EDITHA\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://127.0.0.1:1800/
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\ARORA_EDITHA>color a
C:\Users\ARORA_EDITHA>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 12:48:03 - [info] Node.js version: v14.17.1
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\ARORA_EDITHA\node-red\settings.js
11 Nov 12:48:05 - [info] Context store : 'default' [module-memory]
11 Nov 12:48:05 - [info] User directory : \Users\ARORA_EDITHA\node-red
11 Nov 12:48:05 - [warn] Projects disabled : editorTheme.projects.enabled=false
11 Nov 12:48:05 - [info] Flows file : \Users\ARORA_EDITHA\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://127.0.0.1:1800/
11 Nov 12:48:05 - [info] Starting flows
11 Nov 12:48:05 - [info] Started flows
```

Node-RED

filter nodes

common

inject

debug

complete

catch

status

link in

link call

link out

comment

function

function

switch

change

range

template

delay

Flow 1

IBM IoT

connected

level

show notification

config

all unused

On all flows

ibmiot

SWM1

TestGogul0

ui_base

Node-RED Dashboard

ui_group

[admin] Default1

[unassigned] Default0

ui_tab

admin1

Flow 1

Flow 2

Flow 3

