Create And Configure IBM Cloud Services
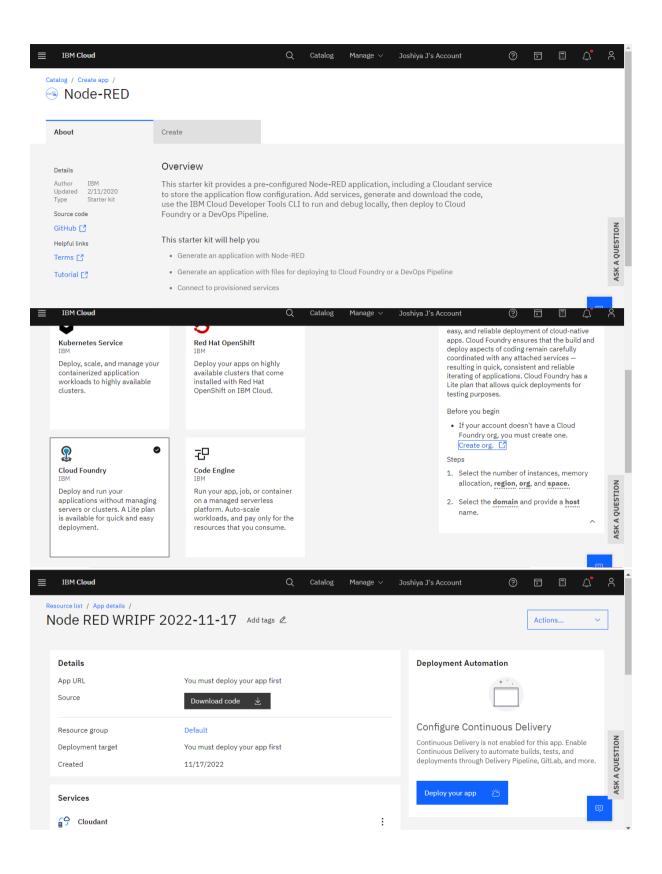
Create Node-RED Service
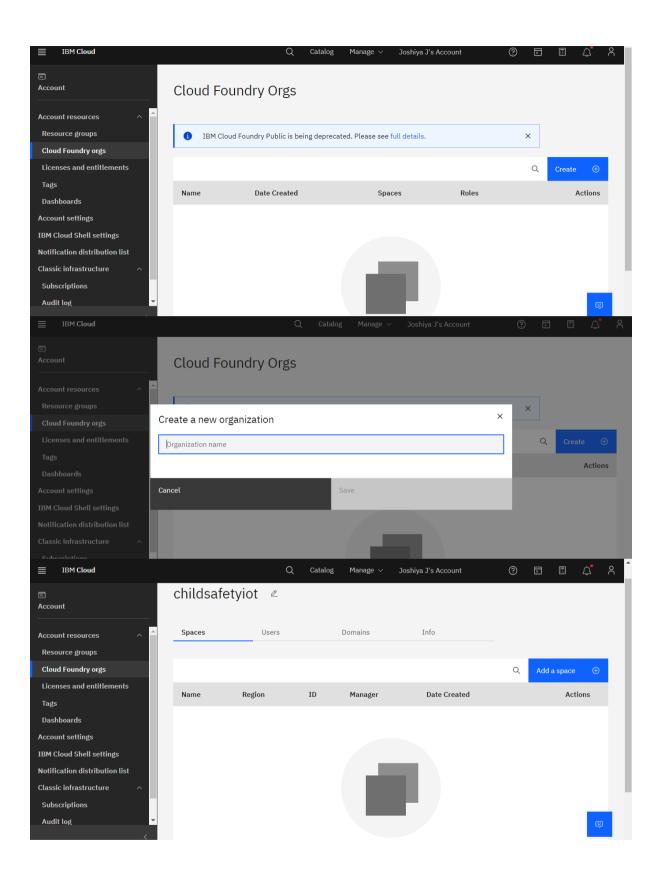
Date	15 November 2022
Team ID	PNT2022TMID34017
Project Name	Project - IoT Based Safety Gadget for Child Safety Monitoring and Notification

Create Node-RED Service:

To create a web application create a Node-RED service.

Catalog / Create app /

Node-RED

| About | Create |

Details

Author   IBM
Updated   2/11/2020
Type   Starter kit

Source code

GitHub ⧉

Helpful links

Terms ⧉

Tutorial ⧉

Overview

This starter kit provides a pre-configured Node-RED application, including a Cloudant service to store the application flow configuration. Add services, generate and download the code, use the IBM Cloud Developer Tools CLI to run and debug locally, then deploy to Cloud Foundry or a DevOps Pipeline.

This starter kit will help you

- Generate an application with Node-RED
- Generate an application with files for deploying to Cloud Foundry or a DevOps Pipeline
- Connect to provisioned services

ASK A QUESTION

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.

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.

ASK A QUESTION

Resource list / App details /

Node RED WRIPF 2022-11-17   Add tags ✎

Actions... ˅

Details

App URL   You must deploy your app first

Source   Download code ⤓

Resource group   Default

Deployment target   You must deploy your app first

Created   11/17/2022

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 ☁

Services

Cloudant   ⋮

ASK A QUESTION

Panel 1

IBM Cloud

Catalog   Manage ⌄   Joshiya J's Account

Account

Account resources
Resource groups
Cloud Foundry orgs
Licenses and entitlements
Tags
Dashboards
Account settings
IBM Cloud Shell settings
Notification distribution list
Classic infrastructure
Subscriptions
Audit log

Cloud Foundry Orgs

ⓘ IBM Cloud Foundry Public is being deprecated. Please see full details.   ✕

Create ⊕

Name	Date Created	Spaces	Roles	Actions

Panel 2

IBM Cloud

Catalog   Manage ⌄   Joshiya J's Account

Account

Account resources
Resource groups
Cloud Foundry orgs
Licenses and entitlements
Tags
Dashboards
Account settings
IBM Cloud Shell settings
Notification distribution list
Classic infrastructure
Subscriptions

Cloud Foundry Orgs

✕

Create a new organization   ✕

Organization name

Create ⊕

Actions

Cancel	Save

Panel 3

IBM Cloud

Catalog   Manage ⌄   Joshiya J's Account

Account

Account resources
Resource groups
Cloud Foundry orgs
Licenses and entitlements
Tags
Dashboards
Account settings
IBM Cloud Shell settings
Notification distribution list
Classic infrastructure
Subscriptions
Audit log

childsafetyiot ✎

Spaces   Users   Domains   Info

Add a space ⊕

Name	Region	ID	Manager	Date Created	Actions

Account

Account resources

Resource groups

Cloud Foundry orgs

Licenses and entitlements

Tags

Dashboards

Account settings

IBM Cloud Shell settings

Notification distribution list

Classic infrastructure

Subscriptions

Audit log

childsafetyiot

Add a space ⊕

Actions

Create a new space

Region

United Kingdom

Name

childsafetyiot34017

Cancel   Save

••••••••••••••••••••••••••••••   New +

Number of instances

1

Memory allocation per instance

64 MB ————●————————————— 2000 MB   256

Region   Organization   Space

London   childsafetyiot   childsafetyiot34017

Host   Domain

node-red-wripf-2022-11-17   eu-gb.mybluemix.net

Cancel   Next

ASK A QUESTION

Resource list / App details /

Node RED WRIPF 2022-11-17

✓ Select the deployment target   ◑ Configure the DevOps toolchain

Configure the DevOps toolchain

Give your toolchain a name and select the region to create your toolchain in.

DevOps toolchain name

NodeREDWRIPF2022-11-17

Accept the default name, or enter a value up to 100 characters.

Region

London

Back   Create

Getting started with apps

Step 2. Configure the DevOps toolchain

The DevOps toolchain includes a Delivery Pipeline tool where you can check the deployment status, start builds, manage deployment, and view logs and history.

1. Provide a name for your toolchain.

2. Select the region where your toolchain is created.

3. Select the resource group that has access to your new toolchain. Learn more.

4. After you're finished with your selections, click **Create**.

ASK A QUESTION

Details

App URL	You must deploy your app first
Source	https://eu-gb.git.cloud.ibm.com/joshiyajeyaseelan24/NodeRED...
Resource group	Default
Deployment target	You must deploy your app first
Created	11/17/2022

Deployment Automation

Name	NodeREDWRIPF2022-11-17
Location	London
Tool integrations	

Delivery Pipelines

Name	pr-pipeline
Status	No stages detected
Name	ci-pipeline
Status	In progress

Services

Cloudant

Open dashboard   Documentation   API reference

Credentials ∨

Connect existing services +   **Create service** +

Details

App URL	https://node-red-wripf-2022-11-17.eu-gb.mybluemix.net
Source	https://eu-gb.git.cloud.ibm.com/joshiyajeyaseelan24/NodeRED...
Resource group	Default
Deployment target	Node RED WRIPF 2022-11-17
Created	11/17/2022

Deployment Automation

Name	NodeREDWRIPF2022-11-17
Location	London
Tool integrations	

Delivery Pipelines

Name	pr-pipeline
Status	No stages detected
Name	ci-pipeline
Status	Success

Services

Cloudant

Open dashboard   Documentation   API reference

Credentials ∨

https://node-red-wripf-2022-11-17.eu-gb.mybluemix.net

node-red-wripf-20....zip

Show all

Welcome to your new Node-RED instance on IBM Cloud

We know you're eager to start wiring up your flows, but first there are a couple of tasks you should do:

- Secure your Node-RED editor
- Learn how to install additional nodes

Learn how to install additional nodes

Node-RED provides a huge catalog of extra nodes you can install into the editor.

Many of these nodes can be installed directly from the editor's palette manager feature. However that can cause issues due to the limited memory of the default Node-RED starter application.

The *recommended approach* is to edit your application's `package.json` file to include the additional node modules and then redeploy the application. This can be done using the Continuous Delivery feature on the application's IBM Cloud dashboard.

For more information, follow this tutorial on IBM Developer.

Finish the install
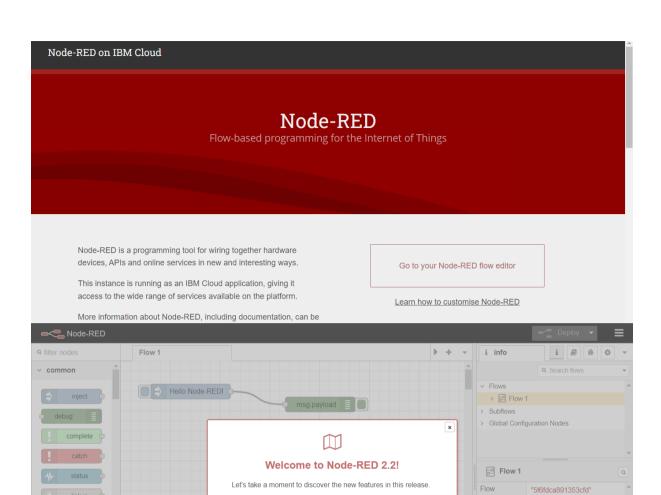
You have made the following selections:

- *Not recommended:* Allow anyone to access the editor and make changes

You can change these settings at any time by setting the following environment variables via the IBM Cloud console:

- `NODE_RED_USERNAME` - the username
- `NODE_RED_PASSWORD` - the password
- `NODE_RED_GUEST_ACCESS` - if set to `true`, allows anyone read-only access to the editor

Applying your settings and starting Node-RED