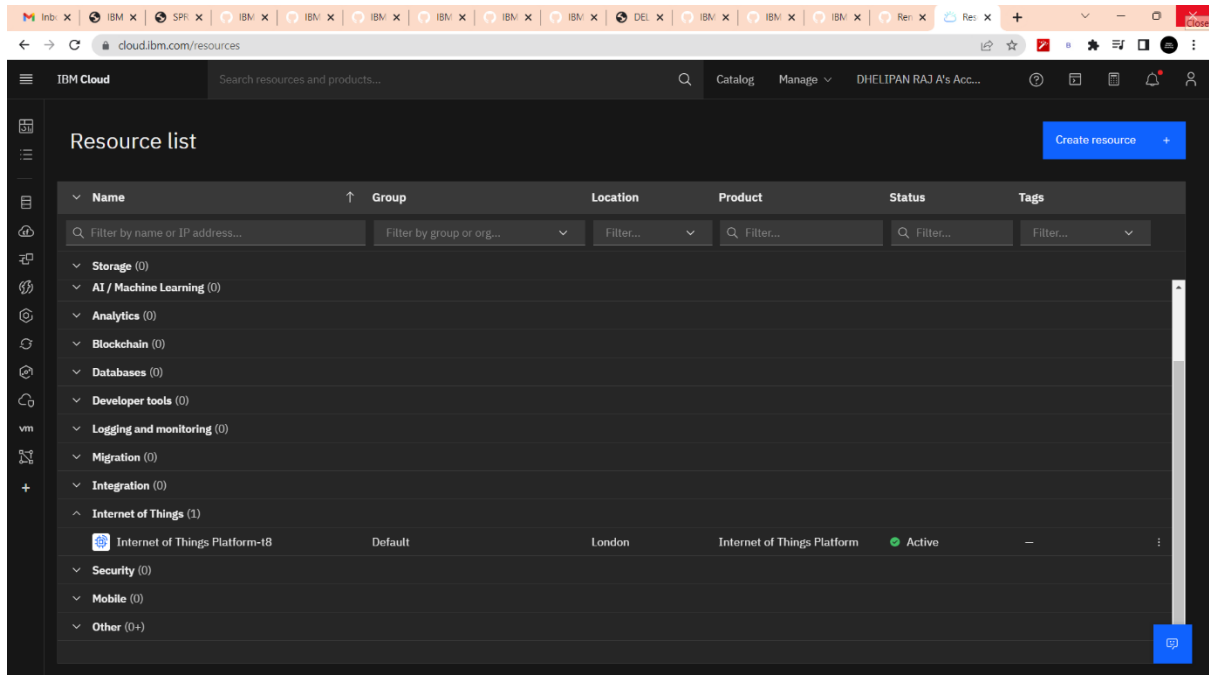
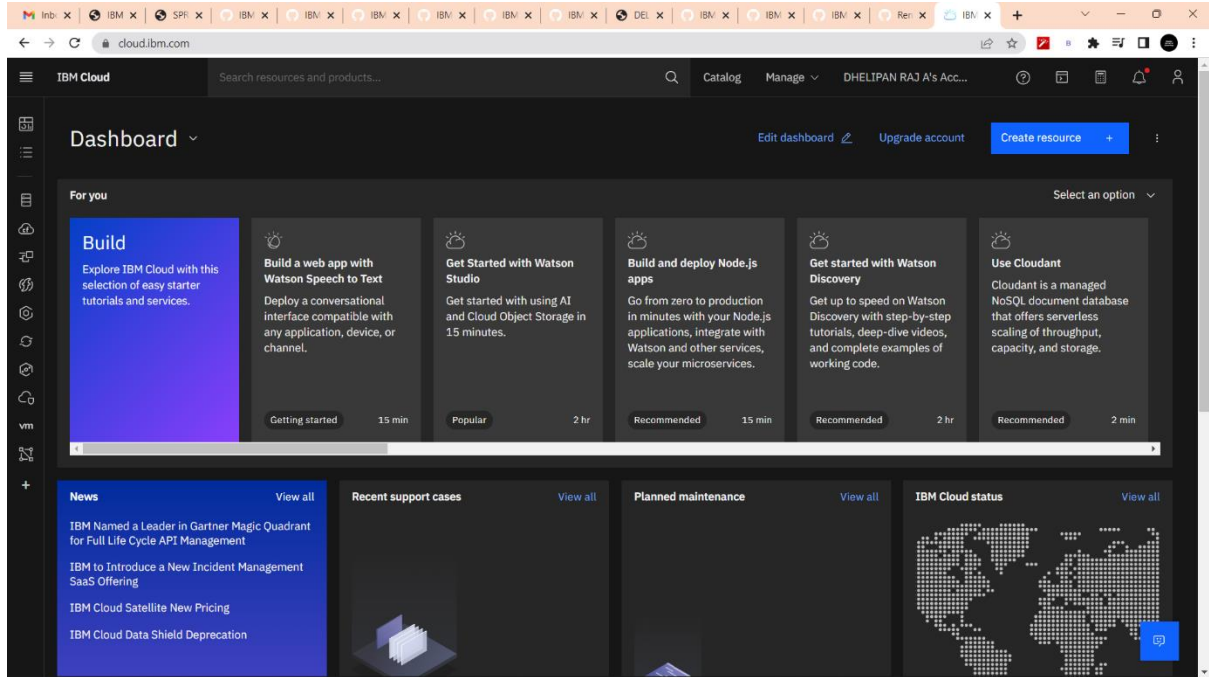


SPRINT 1

Real-Time River Water Quality Monitoring and Control System

PNT2022TMID46026

IBM CLOUD ACCOUNT CREATION:



IBM WATSON :

The screenshot shows the IBM Cloud interface for the 'Internet of Things Platform-t8'. The top navigation bar includes the IBM Cloud logo, a search bar, and user account information. The left sidebar contains a 'Manage' section with links to 'Plan' and 'Connections'. The main content area features a large graphic of a central square with four lines extending outwards, each ending in a small circle. To the right of this graphic is the heading 'Let's get started with IBM Watson IoT Platform' followed by the text 'Securely connect, control, and manage devices. Quickly build IoT applications that analyze data from the physical world.' Below this text are two buttons: 'Launch' and 'Docs'. Further down, a section titled 'Ready for the next level?' introduces the 'IBM Watson IoT Platform Journey'. This journey is depicted as a horizontal timeline with three stages: 'Lite', 'Non-Production', and 'Production'. Each stage has a brief description and a list of features. The 'Lite' stage is marked with a checkmark, indicating it is the current selection.

Resource list / Internet of Things Platform-t8 Active Add tags Details Actions...

Manage

- Plan
- Connections

Let's get started with IBM Watson IoT Platform

Securely connect, control, and manage devices. Quickly build IoT applications that analyze data from the physical world.

[Launch](#) [Docs](#)

Ready for the next level?

IBM Watson IoT Platform Journey

Lite

The Lite service plan provides a lightweight development environment to get you started with the connectivity capabilities of Watson IoT Platform.

- Free
- 200 MB data-transfer limit
- 500 application bindings limit

Non-Production

The Non-Production service plan is a full-featured, fully-integrated offering that enables you to explore Watson IoT Platform to see how the service can fit into your IoT environment.

- Starts at \$500 per month
- Capacity limit based on device type
- Optional Analytics Service and Blockchain

Production

The Production service is a fully managed SaaS offering that enables you to manage and analyze enterprise IoT data.

- Includes IBM Service & Support
- Pricing based on number of devices per device type

The screenshot displays the IBM Watson IoT Platform dashboard. The top navigation bar shows the URL 'internetofthings.ibmcloud.com' and user information. The main content area features a large graphic with the word 'Buildings' in the center. To the left of 'Buildings' is the text 'Collect data from' and to the right is 'and make value from it'. Below the central text is a 'Learn More' link. The dashboard is designed with a dark background and white text, featuring a network-like graphic of lines and nodes. At the bottom of the dashboard, there is a 'Cookie Preferences' button.

IBM Watson IoT Platform 814719106018@smartin... ID: (select org)

Buildings

Collect data from and make value from it

[Learn More](#)

Powerful web dashboard

[Cookie Preferences](#)

NODE RED :

Node RED NMKDO 2022-10-20

Add tags

Actions...

Details

App URL	http://169.51.204
Source	https://us-south.git.cloud.ibm.com/911019106005/NodeRED...
Resource group	Default
Deployment target	Kube/Helm
Created	20/10/2022

Services

Cloudant

[Open dashboard](#) [Documentation](#) [API reference](#)

Credentials

[Connect existing services](#) [Create service](#)

Deployment Automation

Name	NodeREDNMKDO2022-10-20
Location	Dallas
Tool integrations	

Delivery Pipelines

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

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

ASK A QUESTION

Node-RED on IBM Cloud

Node-RED

Flow-based programming for the Internet of Things

Node-RED is a programming tool for wiring together hardware devices, APIs and online services in new and interesting ways.

This instance is running as an IBM Cloud application, giving it access to the wide range of services available on the platform.

More information about Node-RED, including documentation, can be found at nodered.org.

[Go to your Node-RED flow editor](#)

[Learn how to customise Node-RED](#)

Node-RED

Flow 1 Flow 2

filter nodes

- button
- dropdown
- switch
- slider
- numeric
- text input
- date picker
- colour picker
- form
- text
- gauge
- chart
- audio out
- notification
- ui control
- template

msg.payload

function

gauge

button

ui control

info

Search flows

- Flows
 - Flow 1
 - Flow 2
- Subflows
- Global Configuration Nodes

IBM IoT

Node "ea9c3bc3b4a45f51"

Type ibmiot in

show more

The image shows the Node-RED web interface. On the left is a palette of nodes including button, dropdown, switch, slider, numeric, text input, date picker, colour picker, form, text, gauge, chart, audio out, notification, ui control, and template. The main workspace contains a flow with the following nodes: an IBM IoT node (labeled 'disconnected'), a msg.payload node, a function node (labeled 'f'), a gauge node, a button node, and a ui control node. The flow is connected as follows: IBM IoT node to msg.payload node; IBM IoT node to function node; function node to gauge node; function node to button node; button node to ui control node. On the right, the 'info' sidebar shows a search bar and a list of flows (Flow 1, Flow 2). Below that, the 'IBM IoT' node details are shown, including the node ID 'ea9c3bc3b4a45f51' and the type 'ibmiot in'.