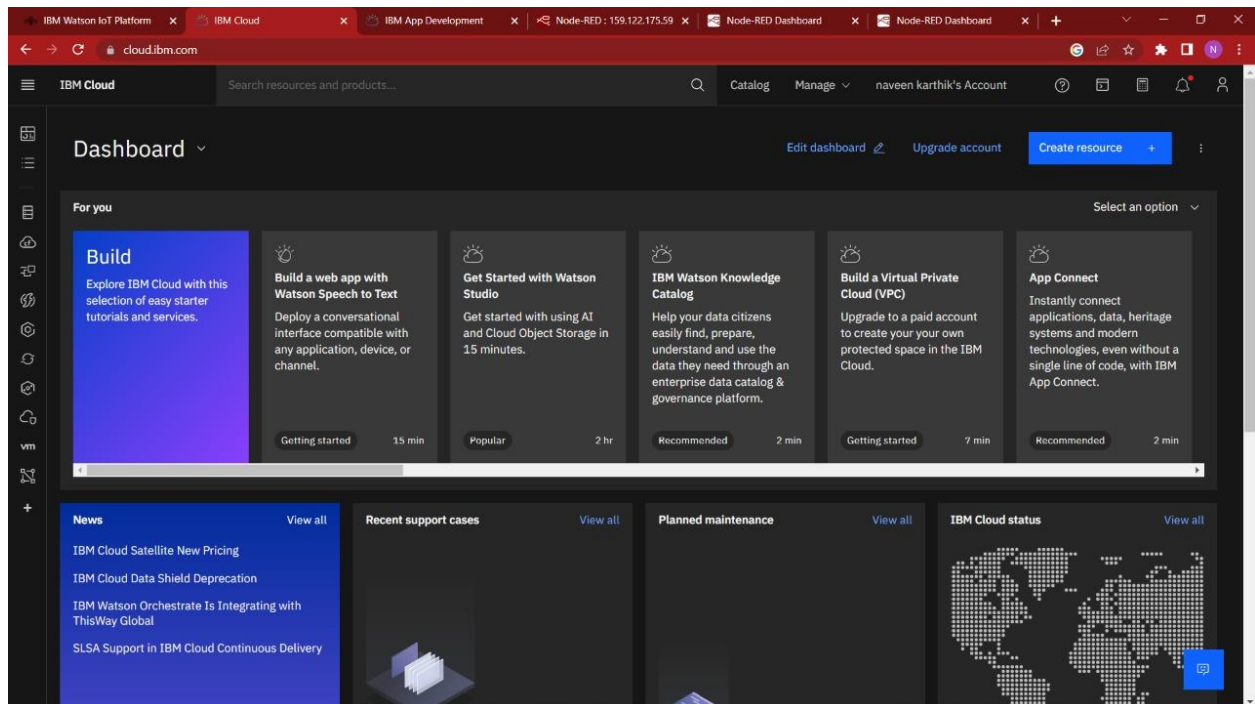
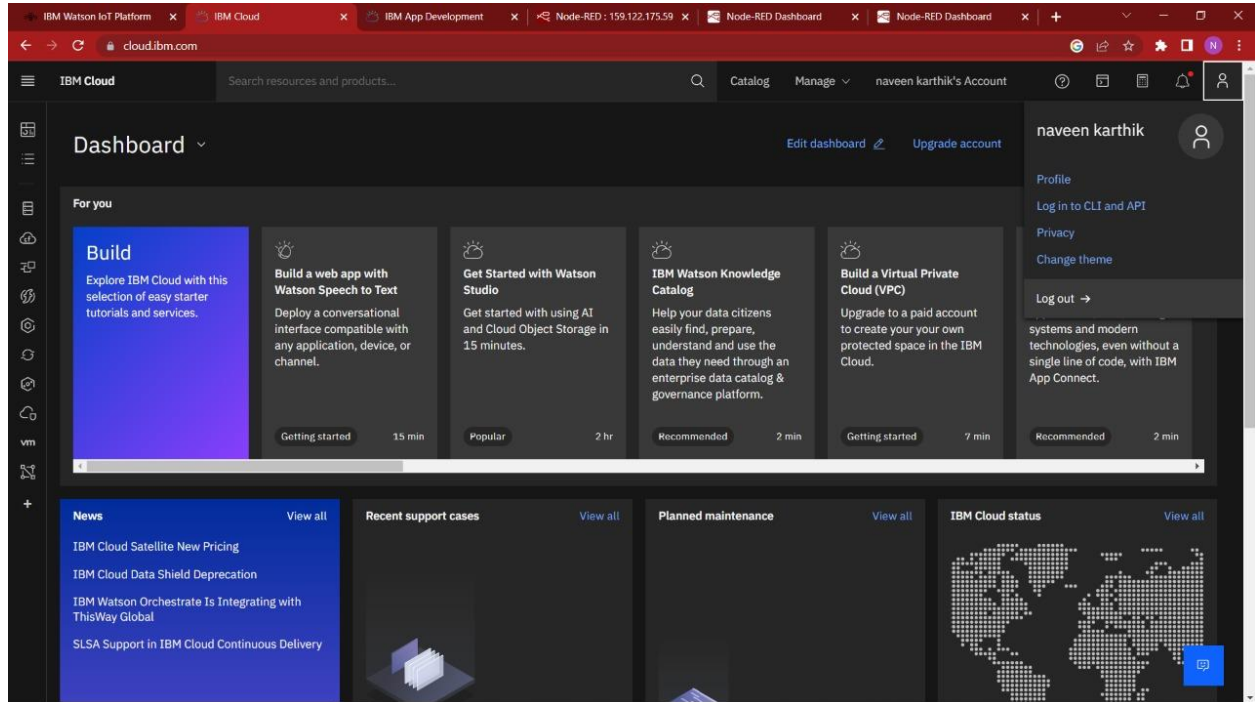


SPRINT 1

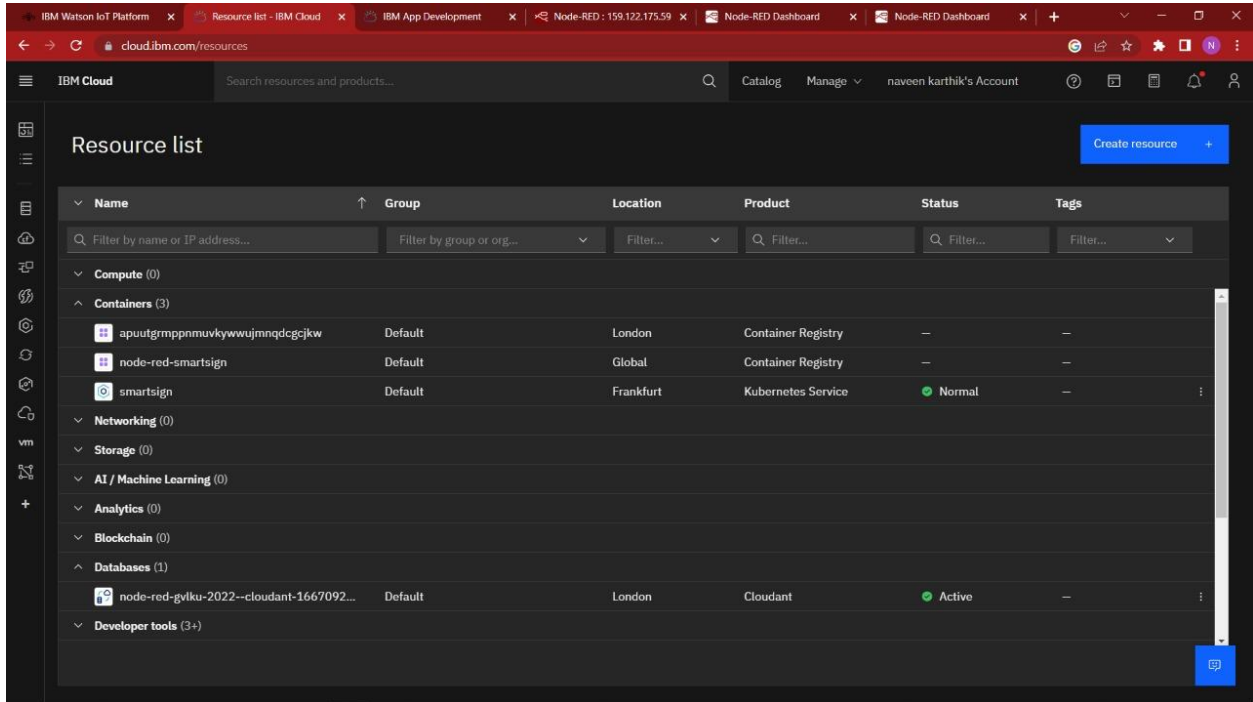
DATE	17 NOVEMBER 2022
TEAM ID	PNT2022TMID21273
TEAM NAME	SIGNS WITH SMART CONNECTIVITY FOR BETTER ROAD SAFETY

S.NO	SPRINT	ACTIVITES
1	SPRINT 1	Create an account in IBM Cloud which is used in this project .
2	SPRINT 1	Configure the IBM Cloud services which are used in completing this project .
3	SPRINT 1	Ibm Watson Iot platform acts as a mediator to connect the web application to the Iot device , so create an account in the IBM Watson Iot platform.
4	SPRINT 1	In order to connect the Iot device to the IBM Cloud , create a device in the IBM Watson Iot platform and get the device credentials .
5	SPRINT 1	Creation of weather map API

1. Create an account in IBM Cloud which is used in this project:

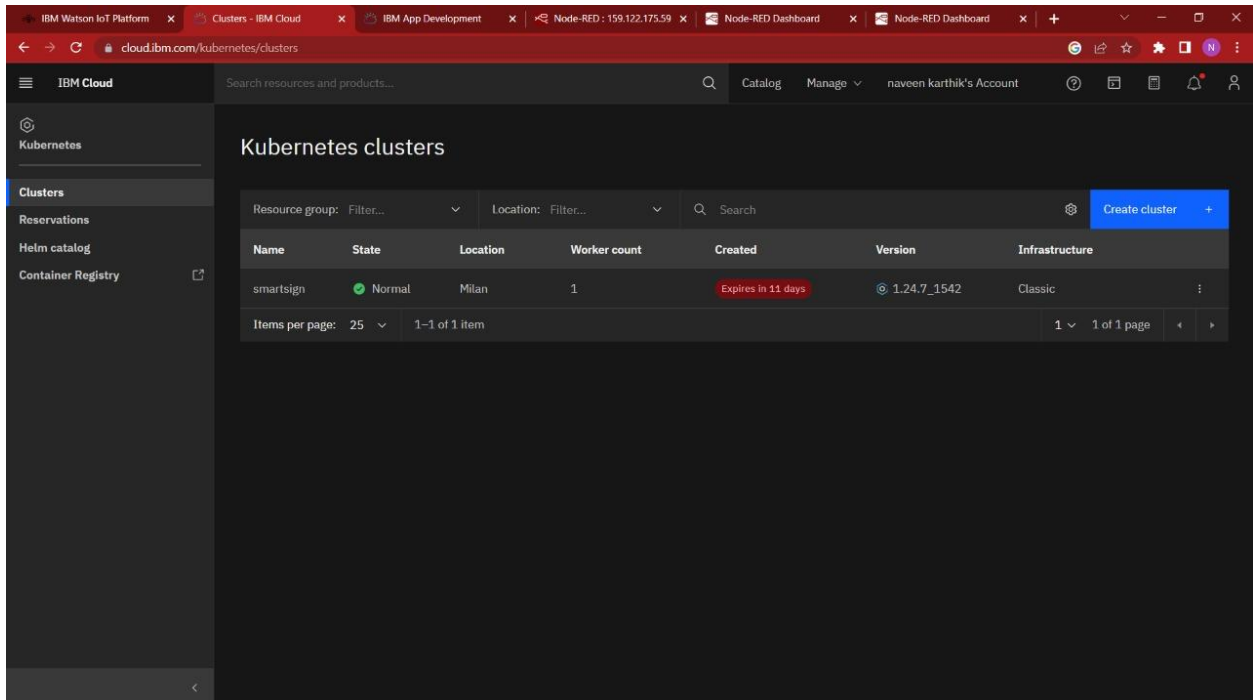


2. Configure the IBM Cloud services which are used in completing this project:



The screenshot shows the IBM Cloud console's 'Resource list' page. The left sidebar contains navigation icons for various services. The main content area displays a table of resources with columns: Name, Group, Location, Product, Status, and Tags. The resources are categorized into Compute (0), Containers (3), Networking (0), Storage (0), AI / Machine Learning (0), Analytics (0), Blockchain (0), Databases (1), and Developer tools (3+). The 'Containers' section is expanded, showing three resources: 'aputgmppnmuvkywujmndcgjkw', 'node-red-smartsign', and 'smartsign'. The 'Databases' section is also expanded, showing one resource: 'node-red-gviku-2022--cloudant-1667092...'. The 'Developer tools' section is expanded, showing three resources.

Name	Group	Location	Product	Status	Tags
Compute (0)					
Containers (3)					
aputgmppnmuvkywujmndcgjkw	Default	London	Container Registry	—	—
node-red-smartsign	Default	Global	Container Registry	—	—
smartsign	Default	Frankfurt	Kubernetes Service	Normal	—
Networking (0)					
Storage (0)					
AI / Machine Learning (0)					
Analytics (0)					
Blockchain (0)					
Databases (1)					
node-red-gviku-2022--cloudant-1667092...	Default	London	Cloudant	Active	—
Developer tools (3+)					



The screenshot shows the IBM Cloud console's 'Kubernetes clusters' page. The left sidebar contains navigation icons for various services. The main content area displays a table of Kubernetes clusters with columns: Name, State, Location, Worker count, Created, Version, and Infrastructure. The 'Clusters' section is expanded, showing one resource: 'smartsign'. The 'Created' column for 'smartsign' shows 'Expires in 11 days'. The 'Version' column for 'smartsign' shows '1.24.7_1542'. The 'Infrastructure' column for 'smartsign' shows 'Classic'.

Name	State	Location	Worker count	Created	Version	Infrastructure
smartsign	Normal	Milan	1	Expires in 11 days	1.24.7_1542	Classic

3.Ibm Watson Iot platform acts as a mediator to connect the web application to the Iot device , so create an account in the IBM Watson Iot platform:

Resource list / Internet of Things Platform-rp 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

IBM Watson IoT Platform

[Browse](#) [Action](#) [Device Types](#) [Interfaces](#) [Add Device](#)

Search by Device ID Device Simulator

Device ID	Status	Device Type	Class ID	Date Added	Descriptive Location
12345	Disconnected	abcode	Device	Nov 17, 2022 7:31 PM	

Identity **Device Information** **Recent Events** **State** **Logs**

The recent events listed show the live stream of data that is coming and going from this device.

Event	Value	Format	Last Received
IoTSensor	{"temp":108,"Humid":86}	json	a few seconds ago
IoTSensor	{"temp":109,"Humid":71}	json	a few seconds ago
IoTSensor	{"temp":107,"Humid":97}	json	a few seconds ago
IoTSensor	{"temp":106,"Humid":92}	json	a few seconds ago
IoTSensor	{"temp":99,"Humid":89}	json	a few seconds ago

1 Simulation running

4. In order to connect the Iot device to the IBM Cloud , create a device in the IBM Watson Iot platform and get the device credentials :

IBM Watson IoT Platform

Browse Devices

All Devices Diagnose

This table shows a summary of all devices that have been added. It can be filtered, organized, and searched on using different criteria. To get started, you can add devices by using the Add Device button, or by using API.

Search by Device ID

Device Simulator

Device ID	Status	Device Type	Class ID	Date Added	Descriptive Location
12345	Disconnected	abcde	Device	Nov 17, 2022 7:31 PM	
13	Disconnected	abcd	Device	Oct 26, 2022 7:04 PM	
abcd_1	Disconnected	abcd	Device	Nov 17, 2022 7:16 PM	

Items per page 50 | 1-3 of 3 items

1 of 1 page

1 Simulation running

IBM Watson IoT Platform

Your boards

Create New Board

Sort By Recently changed

SMART SIGN BOARD

3 Cards

Owned by you

SMARTHOMES

1 Card

Owned by you

SMART SIGN

3 Cards

Owned by you

RISK AND SECURITY OVERVIEW

4 Cards

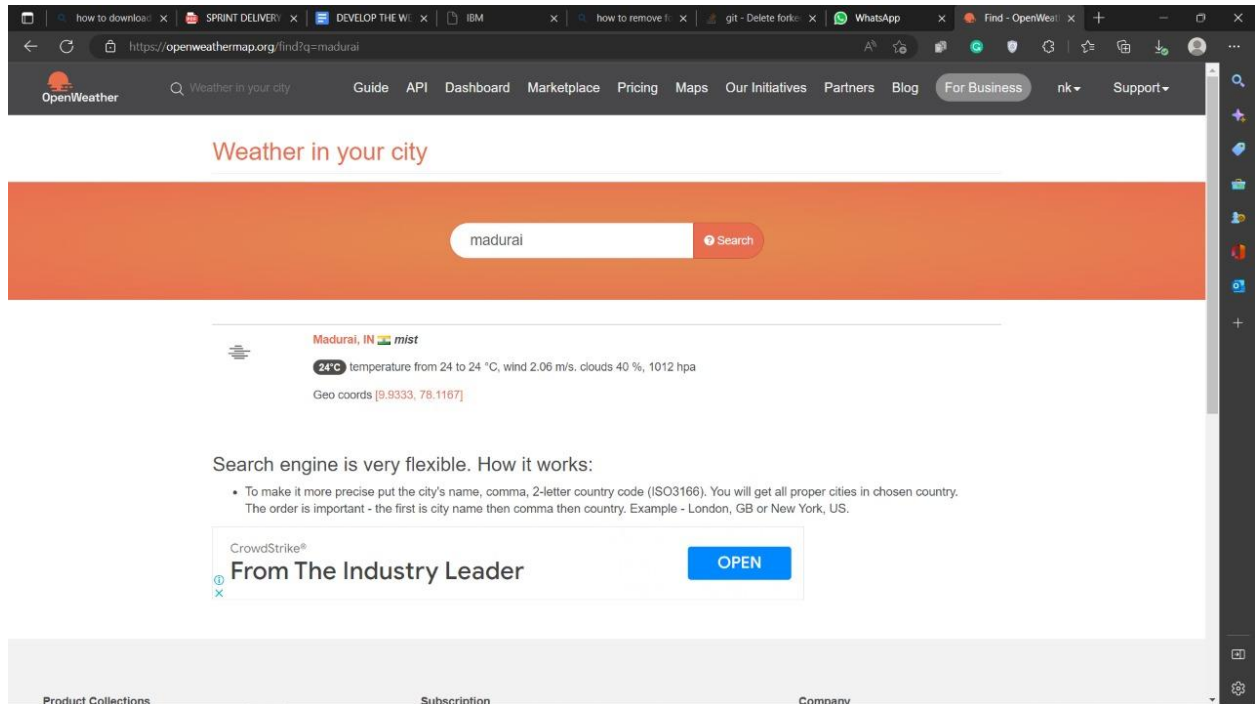
Owned by you

+

Boards shared with you

1 Simulation running

5. Creation of weather map API:



OpenWeather

Weather in your city

Guide API Dashboard Marketplace Pricing Maps Our Initiatives Partners Blog For Business nk Support

Weather in your city

madurai Search

Madurai, IN mist

24°C temperature from 24 to 24 °C, wind 2.06 m/s, clouds 40 %, 1012 hpa

Geo coords [9.9333, 78.1167]

Search engine is very flexible. How it works:

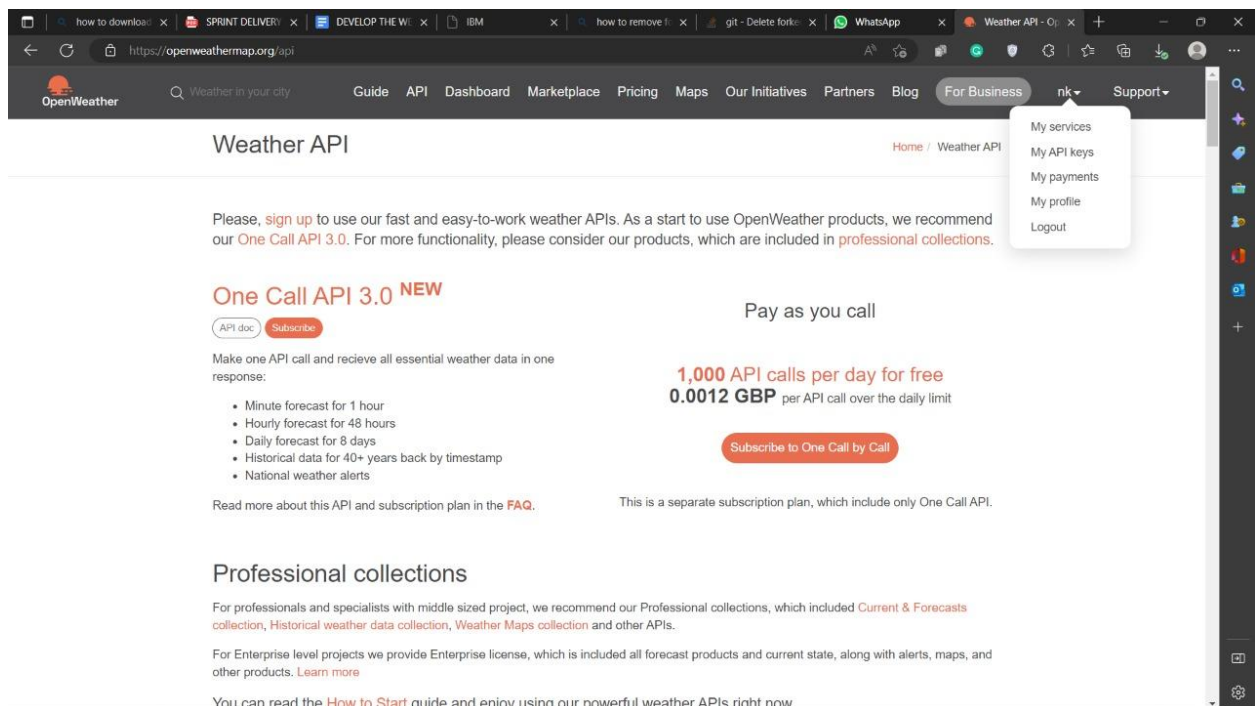
- To make it more precise put the city's name, comma, 2-letter country code (ISO3166). You will get all proper cities in chosen country. The order is important - the first is city name then comma then country. Example - London, GB or New York, US.

CrowdStrike®

From The Industry Leader

OPEN

Product Collections Subscription Company



OpenWeather

Weather in your city

Guide API Dashboard Marketplace Pricing Maps Our Initiatives Partners Blog For Business nk Support

Weather API

Home / Weather API

Please, [sign up](#) to use our fast and easy-to-work weather APIs. As a start to use OpenWeather products, we recommend our [One Call API 3.0](#). For more functionality, please consider our products, which are included in [professional collections](#).

One Call API 3.0 **NEW**

API doc Subscribe

Make one API call and receive all essential weather data in one response:

- Minute forecast for 1 hour
- Hourly forecast for 48 hours
- Daily forecast for 8 days
- Historical data for 40+ years back by timestamp
- National weather alerts

Read more about this API and subscription plan in the [FAQ](#).

Pay as you call

1,000 API calls per day for free

0.0012 GBP per API call over the daily limit

Subscribe to One Call by Call

This is a separate subscription plan, which include only One Call API.

Professional collections

For professionals and specialists with middle sized project, we recommend our Professional collections, which included [Current & Forecasts collection](#), [Historical weather data collection](#), [Weather Maps collection](#) and other APIs.

For Enterprise level projects we provide Enterprise license, which is included all forecast products and current state, along with alerts, maps, and other products. [Learn more](#)

You can read the [How to Start](#) guide and enjoy using our powerful weather APIs right now.

My services
My API keys
My payments
My profile
Logout