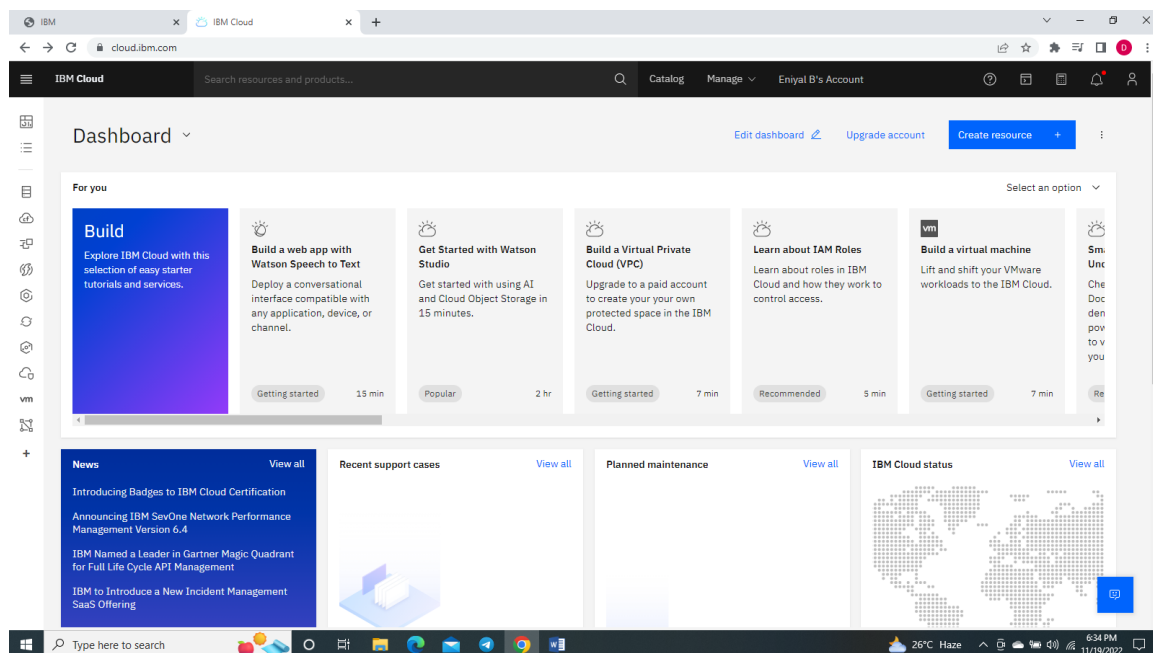


# Create and Configure IBM Cloud Services

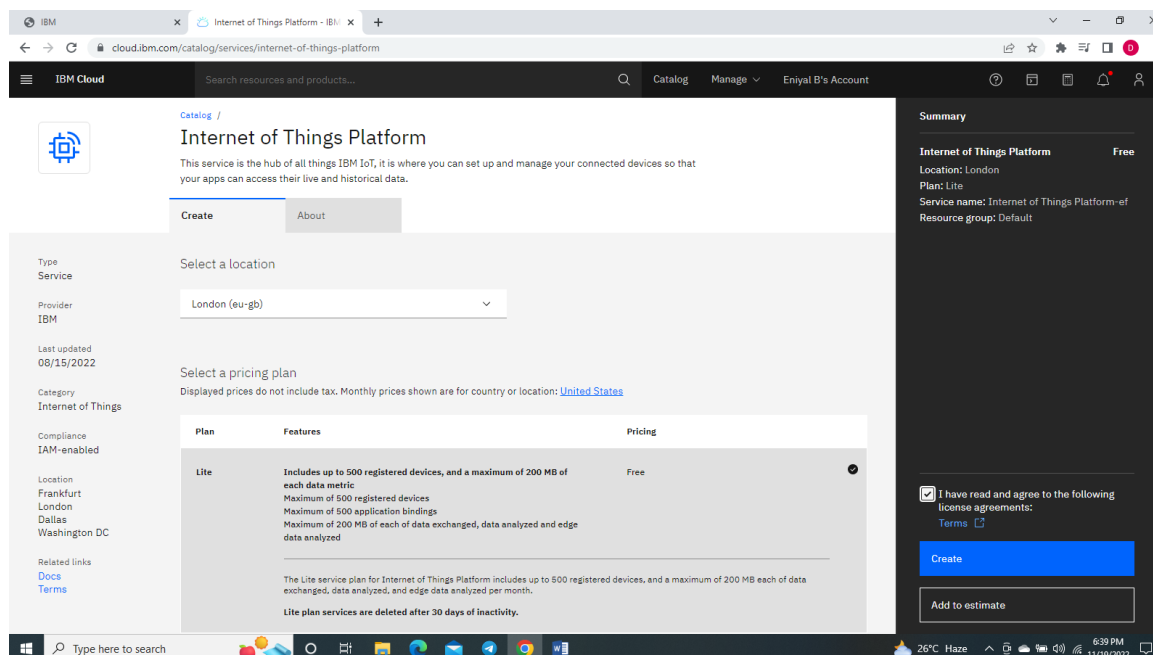
Date	15 October 2022
Team ID	PNT2022TMID46119
Project Name	IOT BASED SAFETY GADGETS FOR CHILD SAFETY MONITORING AND NOTIFICATIONS

## Create IBM Watson IoT Platform and Device

### IBM Cloud Dashboard



### Create Services in IoT Platform



# Launch IBM Watson IoT Platform

The screenshot shows the IBM Cloud console interface. The top navigation bar includes the IBM logo, a search bar, and links for Catalog, Manage, and the user's account (Eniyal B's Account). The main content area is titled "Internet of Things Platform-ef" and is marked as "Active". A sidebar on the left contains a "Manage" section with links for Plan and Connections. The main content area features a large graphic of a central node connected to several peripheral nodes, with the text "Let's get started with IBM Watson IoT Platform" and a "Launch" button. Below this, a section titled "Ready for the next level?" introduces the "IBM Watson IoT Platform Journey" with three stages: Lite, Non-Production, and Production. Each stage has a brief description and a list of features.

**Internet of Things Platform-ef** 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

# Create Devices in IBM Watson IoT Platform

The screenshot shows the IBM Watson IoT Platform dashboard. The top navigation bar includes the IBM logo, a search bar, and links for Service Details - IBM Cloud, IBM Watson IoT Platform, and a plus sign. The main content area is titled "Browse Devices" and has a sidebar on the left with a "Device Simulator" toggle. The main content area includes a table with columns for Device ID, Status, Device Type, Class ID, Date Added, Descriptive Location, and Added By. The table shows one device, "Device\_1", which is "Disconnected" and is a "Safety\_Device".

**IBM Watson IoT Platform** 815119104011@smartinternz.com ID: 94kx6e Add Device

**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	Added By
Device_1	Disconnected	Safety_Device	Device	Nov 10, 2022 7:53 PM		815119104011@smartinternz.com

Items per page 50 | 1-1 of 1 item 1 of 1 page

# Connecting the Devices

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	Added By
Device_1	Connected	Safety_Device	Device	Nov 10, 2022 7:53 PM		815119104011@smartinternz.com

Items per page 50 | 1-1 of 1 item

1 of 1 page

0 Simulations running

# Output from the IBM Watson IoT Platform

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	Added By
Device_1	Connected	Safety_Device	Device	Nov 10, 2022 7:53 PM		815119104011@smartinternz.com

Items per page 50 | 1-1 of 1 item

1 of 1 page

0 Simulations running

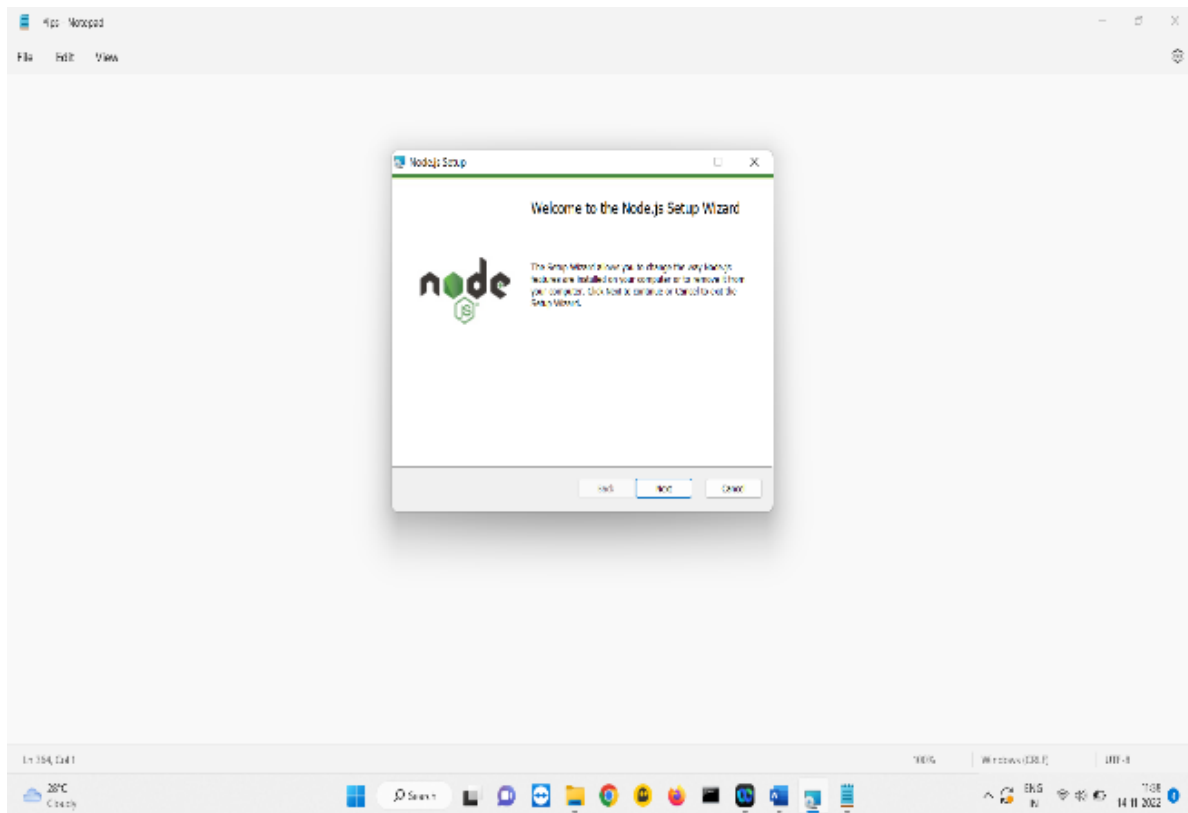
Recent Events

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

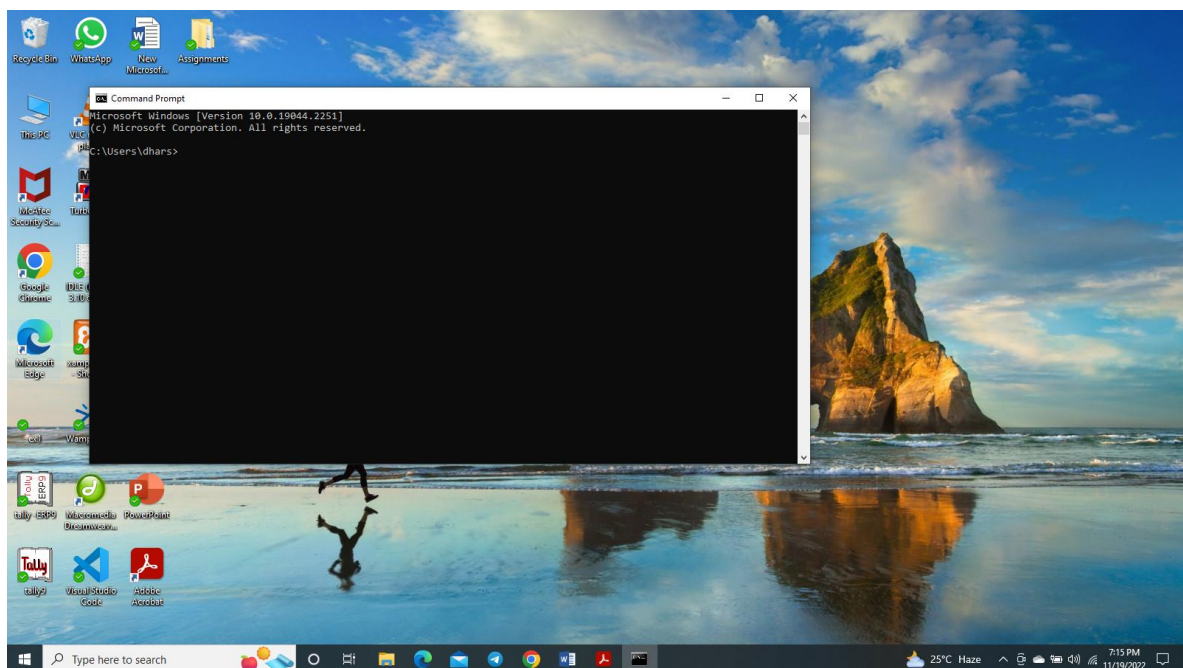
Event	Value	Format	Last Received
status	{"name":"India","lat":20.5937,"lon":78.9629}	json	a few seconds ago

# Create Node-RED Service

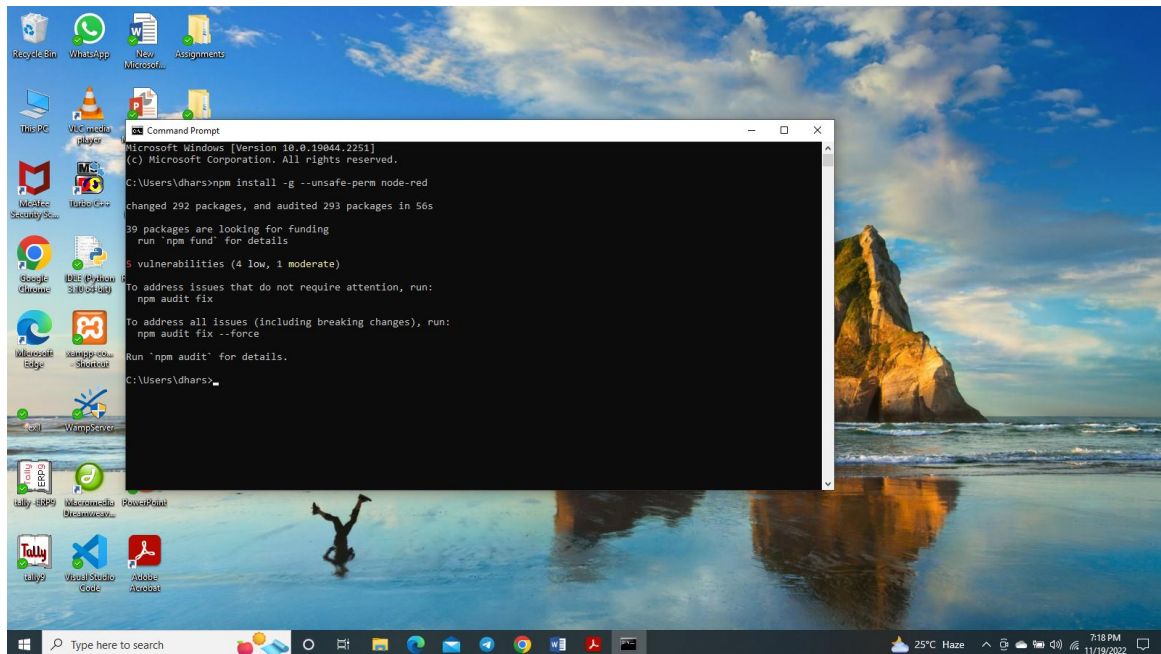
## Install Node.js



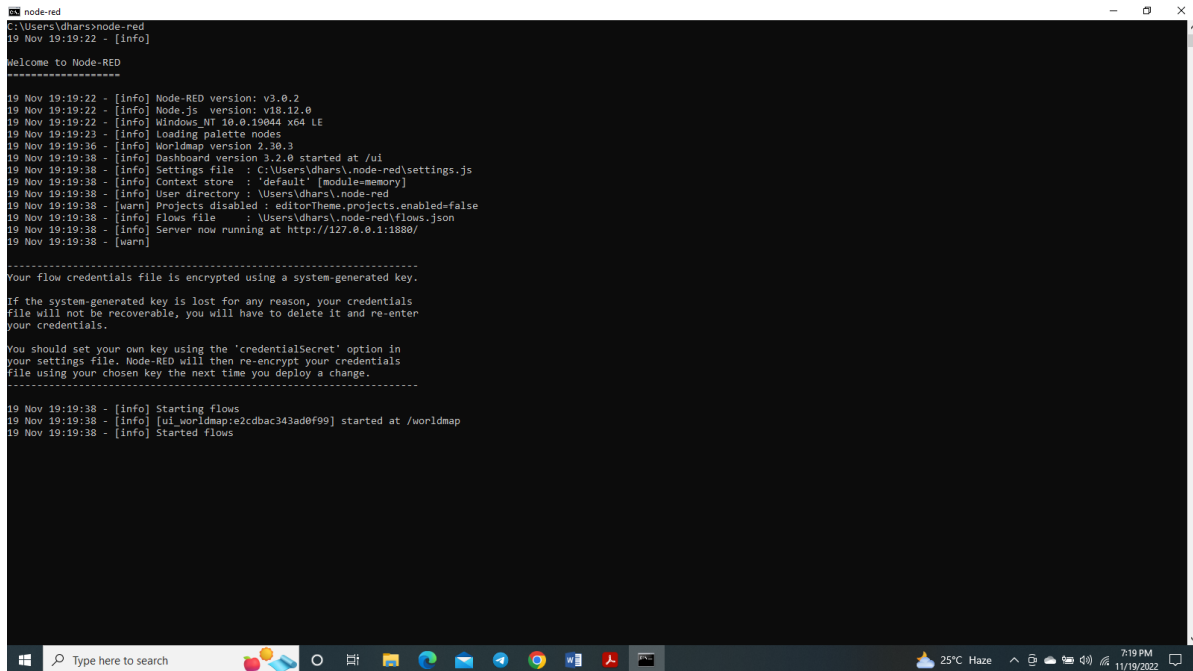
## Next open command terminal



## Command “npm install -g --unsafe-perm node-red”

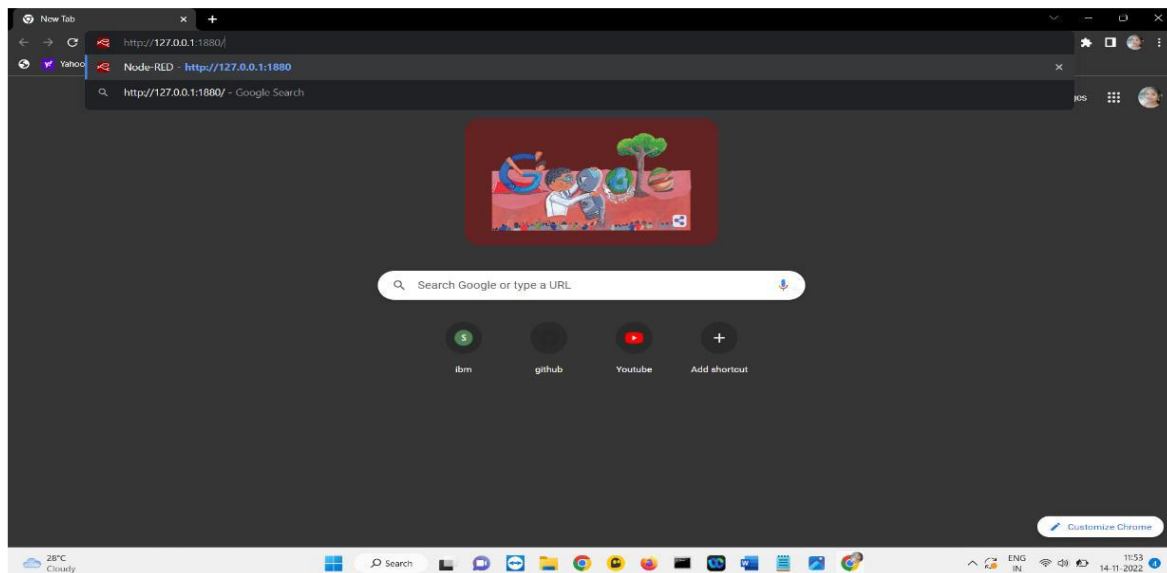


## Command “node-red”

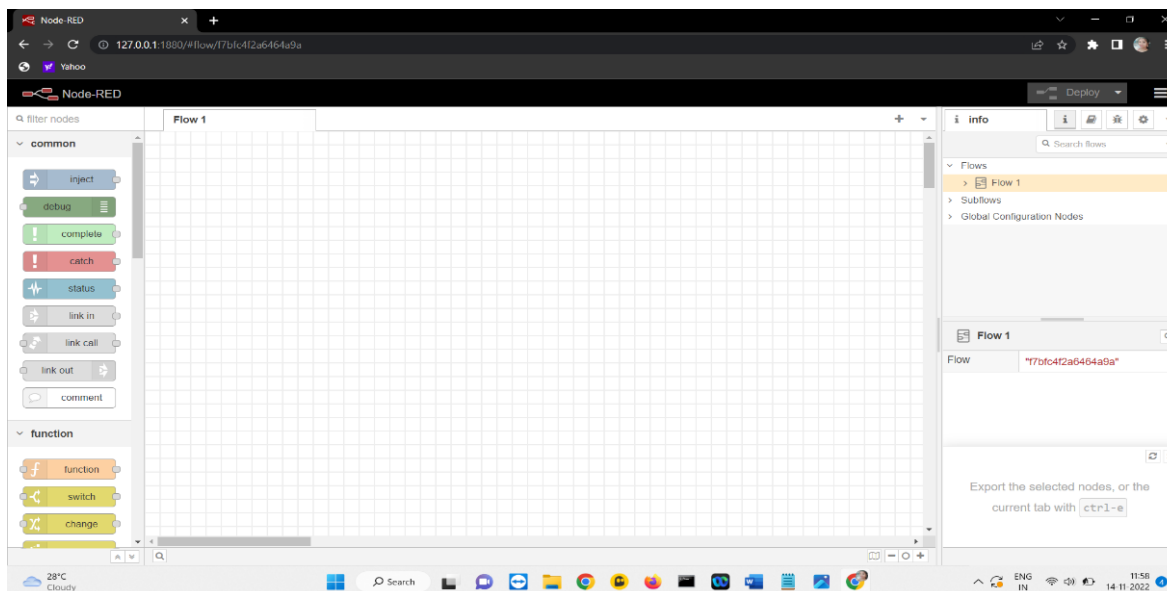


# Copy URL and Paste in New Tab

```
node-red
14 Nov 09:21:28 - [info] Node-RED version: v1.0.2
14 Nov 09:21:28 - [info] Node.js version: v18.12.1
14 Nov 09:21:28 - [info] Windows_NT 10.0.22000 x64 LC
14 Nov 09:21:28 - [info] Loading palette nodes
14 Nov 09:21:31 - [info] Settings file : C:\Users\ADITSESHU\.node-red\settings.js
14 Nov 09:21:31 - [info] Context store : 'default' (module=memory)
14 Nov 09:21:31 - [info] User directory : C:\Users\ADITSESHU\.node-red
14 Nov 09:21:31 - [warn] Projects disabled : editorTheme.projects.enabled=false
14 Nov 09:21:31 - [info] Flow file : C:\Users\ADITSESHU\.node-red\flows.json
14 Nov 09:21:31 - [info] Creating new flow file
14 Nov 09:21:31 - [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.
-----
14 Nov 09:21:31 - [info] Server now running at http://127.0.0.1:1880/
14 Nov 09:21:31 - [warn] encrypted credentials not found
14 Nov 09:21:31 - [info] Starting flows
14 Nov 09:21:31 - [info] Started flows
```



# Node red Page



# Create a Database in Cloudbant DB

## Cloud Database Dashboard

The screenshot shows the Cloudbant Cloud Database Dashboard. The main section is titled 'Databases' and displays a table of existing databases. A 'Create Database' modal is open on the right side.

Name	Size	# of Docs	Partitioned
childsafety	371 bytes	5	No

**Create Database**

Database name:

Partitioning:

- ☐ Non-partitioned - recommended for most workloads
- ☒ Partitioned

> Which should I choose?

Buttons: Cancel, Create

## Create Document

The screenshot shows the Cloudbant Cloud Database Dashboard for the 'childtracking' database. The main section is titled 'New Document' and displays a 'Create Document' modal.

**Create Document**

```
1 {
2   "_id": "44335ce8ce62856dfc93bec5b6da880e"
3   "new": "Child Monitoring"
4 }
```

# Database Created

IBMService Details - IBM CloudCloudant Dashboard - \_all\_dbs

4e53bcc7-f91c-4f07-87b8-c9452f3db25c-bluemix.cloudant.com/dashboard.html#/all\_dbs

Create Database{ } JSON

Databases

Your Databases

Name	Size	# of Docs	Partitioned	Actions
childsafety	371 bytes	5	No	<div><div></div><div></div><div></div></div>
childtracking	26 bytes	1	No	<div><div></div><div></div><div></div></div>

Showing 1–2 of 2 databases. Databases per page201

Log Out

Type here to search

25°C Haze7:44 PM11/19/2022