

SMART WATSE MANAGEMENT SYSTEM FOR METROPOLITAN CITIES

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PREREQUISITES

(IBM cloud service, Software)

IBM Cloud Services:

We need to have basic knowledge of the following cloud services:

- ‡ IBM Watson IoT Platform
- ‡ Node-RED Service
- ‡ Cloudbant DB

IBM Account Creation:

In this we create a account with the register code / promo code using the given mail id at the IBM cloud platform, then login

IBM CLOUD


IBM Cloud

cloud.ibm.com/login

Gmail YouTube Maps

IBM Cloud

Catalog Cost estimator Docs



Log in to IBM Cloud

Don't have an account? [Create an account](#)

Sign in with

IBMid

621319106082@smartinternz.com

Continue

[Forgot ID?](#)

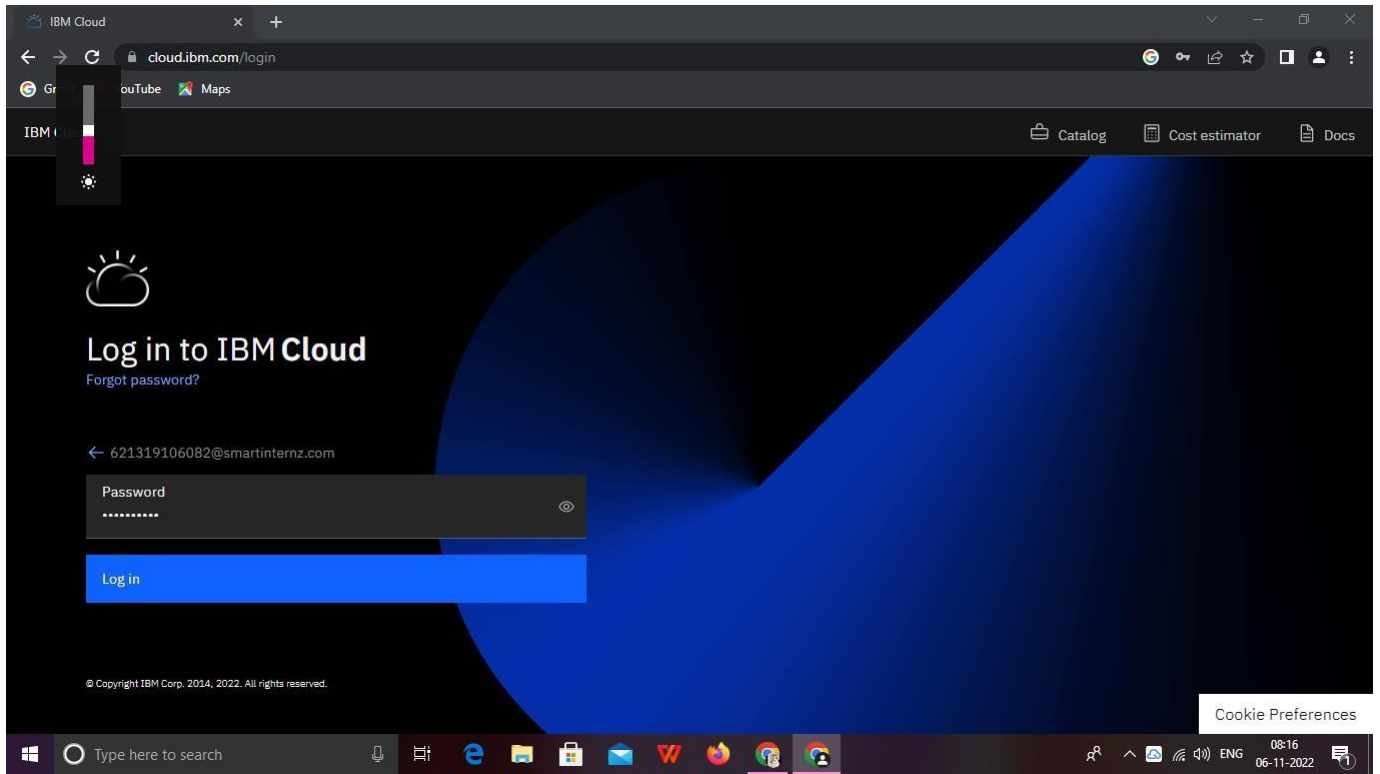
☐ Remember ID

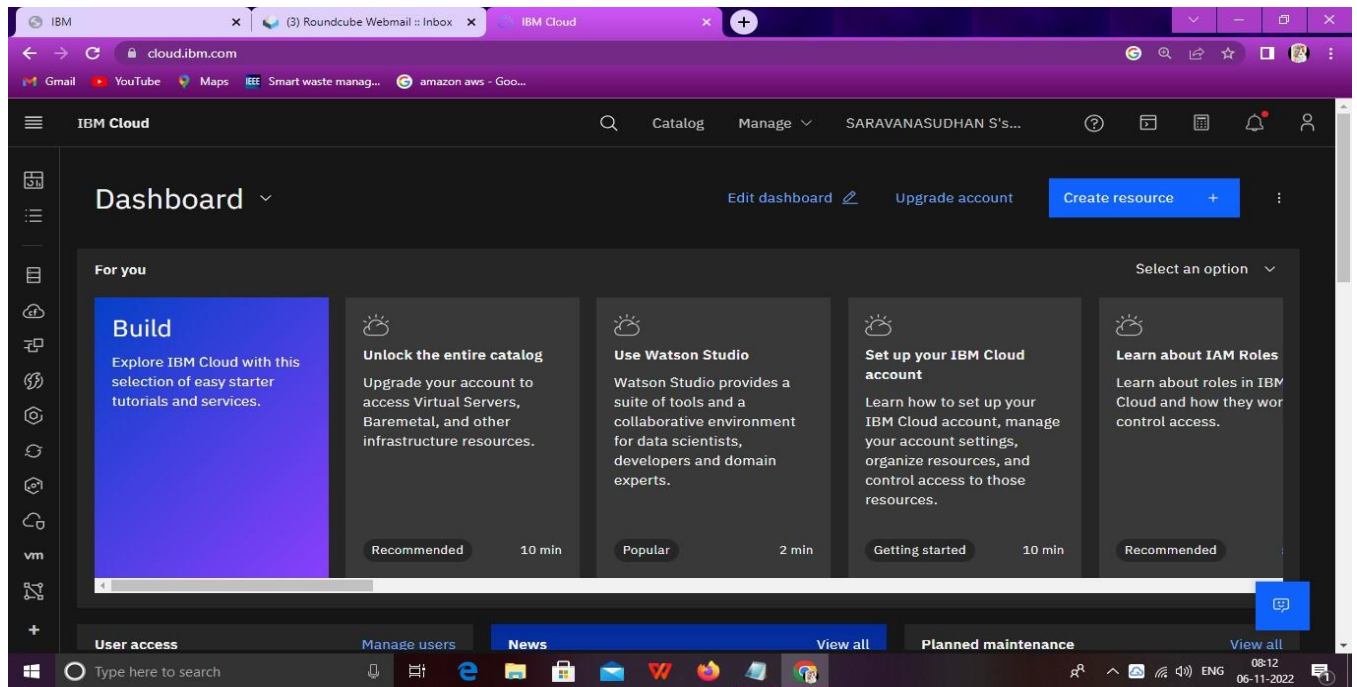
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Cookie Preferences

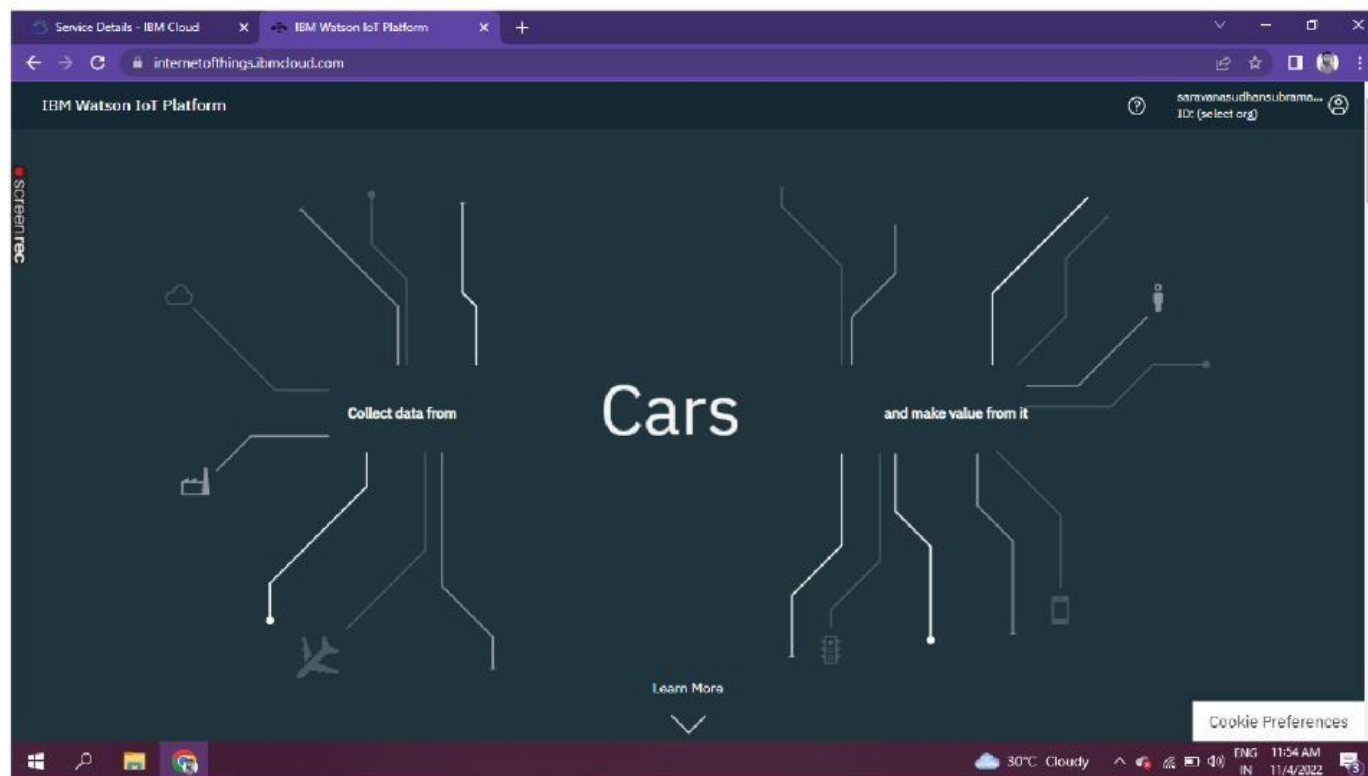
Type here to search

ENG 08:16 06-11-2022





IBM Watson IoT Platform



Service Details - IBM Cloud

IBM Watson IoT Platform

hqlbs6m.internetofthings.ibmcloud.com/dashboard/devices/browse

IBM Watson IoT Platform

sarevansaudhansubramanian2002@gmail.com
ID: hqlbs6m

Screen Recorder

Browse

Action

Device Types

Interfaces

Device ID

Status

Device type

Class ID

Date Added

ab0d

Disconnected

123

Device

Nov 4, 2022 11:51 AM

...

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
event_1	{"randomNumber":75}	json	a few seconds ago
event_1	{"randomNumber":5}	json	a few seconds ago
event_1	{"randomNumber":33}	json	a few seconds ago
event_1	{"randomNumber":56}	json	a few seconds ago
event_1	{"randomNumber":67}	json	a few seconds ago

1 Simulation running

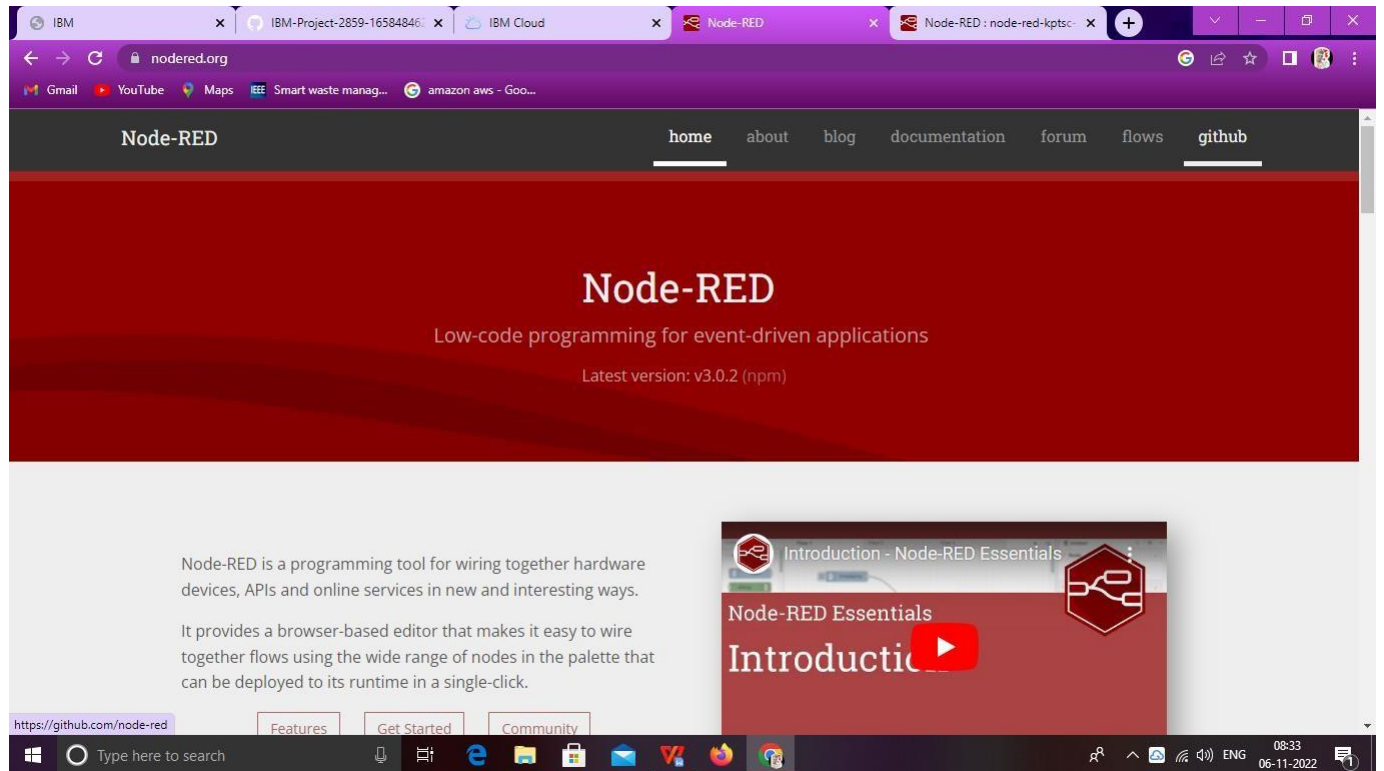
Windows

30°C Cloudy

11:58 AM

11/4/2022

NODE-RED SERVICE



The screenshot shows a web browser window with the Node-RED website. The browser's address bar displays `nodered.org`. The website's header includes a navigation menu with links: `home`, `about`, `blog`, `documentation`, `forum`, `flows`, and `github`. The main content area features a large red banner with the text "Node-RED" in white, followed by "Low-code programming for event-driven applications" and "Latest version: v3.0.2 (npm)". Below this, a description states: "Node-RED is a programming tool for wiring together hardware devices, APIs and online services in new and interesting ways. It provides a browser-based editor that makes it easy to wire together flows using the wide range of nodes in the palette that can be deployed to its runtime in a single-click." To the right of the text is a video player showing a thumbnail for "Introduction - Node-RED Essentials". The browser's taskbar at the bottom shows the Windows Start button, a search bar, and several application icons. The system tray on the right indicates the time as 08:33 and the date as 06-11-2022.

Node-RED

Low-code programming for event-driven applications

Latest version: v3.0.2 (npm)

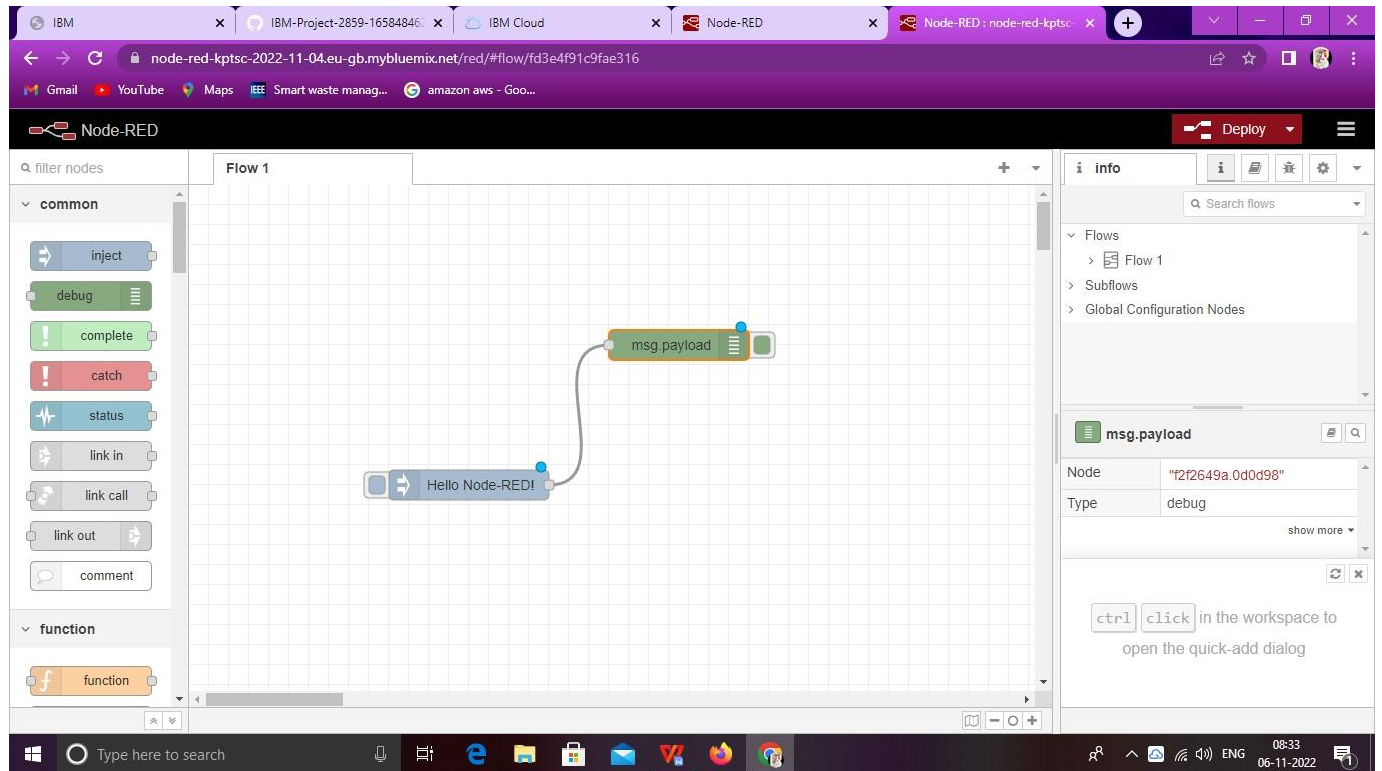
Node-RED is a programming tool for wiring together hardware devices, APIs and online services in new and interesting ways.

It provides a browser-based editor that makes it easy to wire together flows using the wide range of nodes in the palette that can be deployed to its runtime in a single-click.

Introduction - Node-RED Essentials

Node-RED Essentials

Introduction



Cloudant DB

IBM Cloud interface showing the details of a Cloudant-4e instance. The instance is Active and has a deployment details section.

Cloudant-4e Active [Add tags](#)

Deployment details

CRN	crn:v1:bluemix:public:cloudantnosqldb:eu-gb:aa0f9006eba34a30bb435edefa4c01b1:f90a25f3-b06c-446e-8d94-014017fd5d64::
Location	London
External endpoint	https://0fa44d99-5fd8-4ce2-b0f4-ee02d63f9aee-bluemix.cloudant.com
External endpoint (preferred)	https://0fa44d99-5fd8-4ce2-b0f4-ee02d63f9aee-bluemix.cloudantnosqldb.appdomain.cloud
Authentication methods	IBM Cloud IAM
Activity Tracker event types	Management Save

Cloudant Dashboard interface showing a list of databases. The dashboard displays two databases: sample and sudhan.

Databases

Database name Create Database { } JSON 🔔

Your Databases

Name	Size	# of Docs	Partitioned	Actions
sample	2 bytes	1	No	🔍 🔒 🗑️
sudhan	4 bytes	2	No	🔍 🔒 🗑️

Showing 1-2 of 2 databases. Databases per page 20 « 1 »