

SMART WATSE MANAGEMENT SYSTEM FOR METROPOLITAN CITIES

**STUDENT NAME : R.HEMALATHA-TEAM LEAD
M.SANGEETHA-TEAM MEMBER
P.ABIRAMI – TEAM MEMBER**

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
- ✦ Cloudant 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

GmailYouTubeMaps

IBM Cloud

CatalogCost estimatorDocs



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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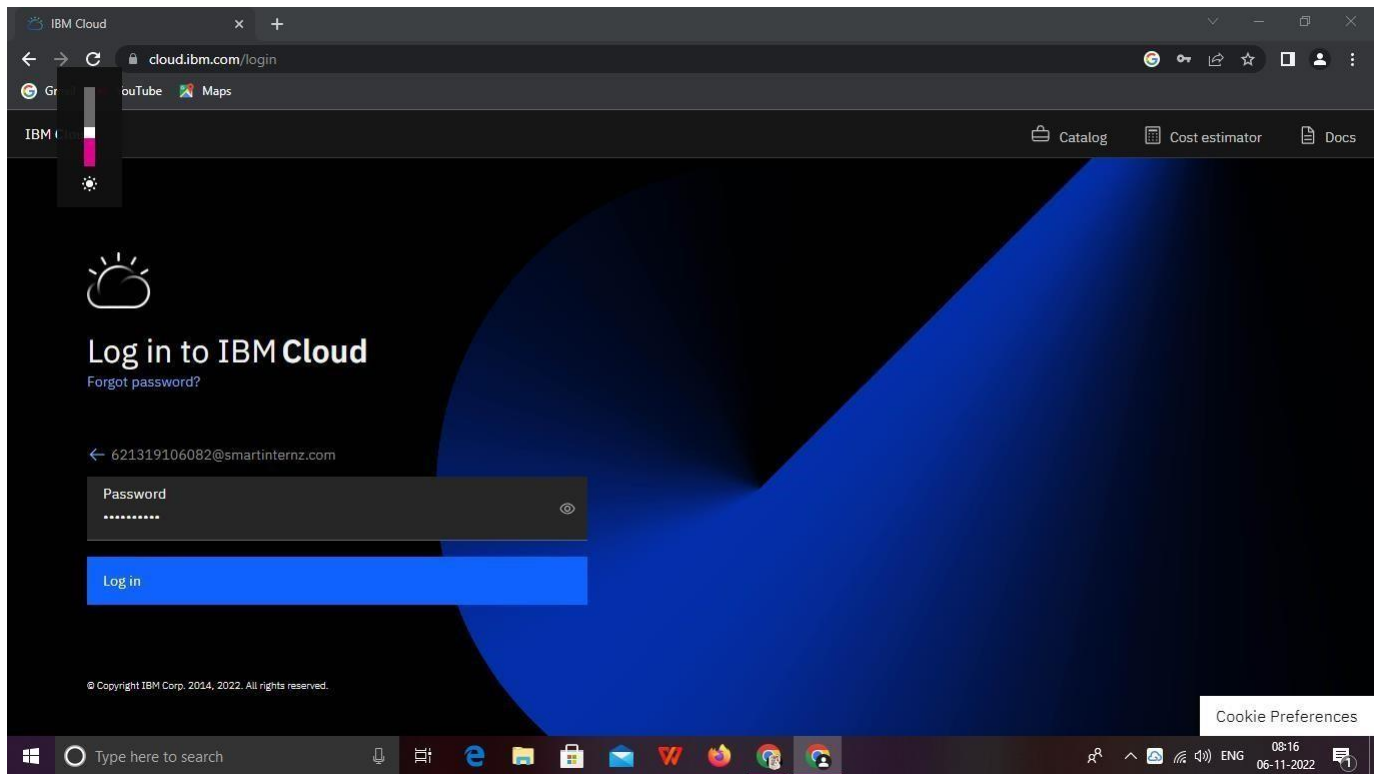
Type here to search



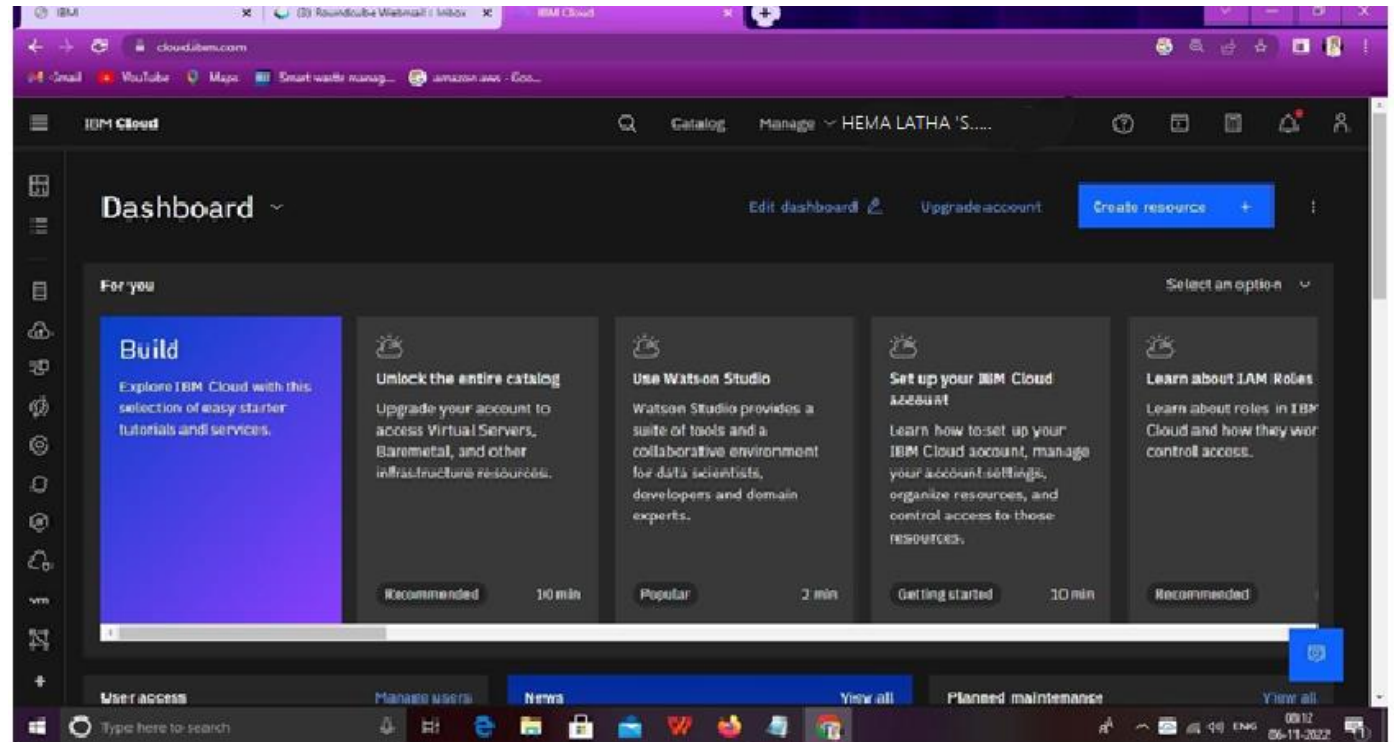
08:16

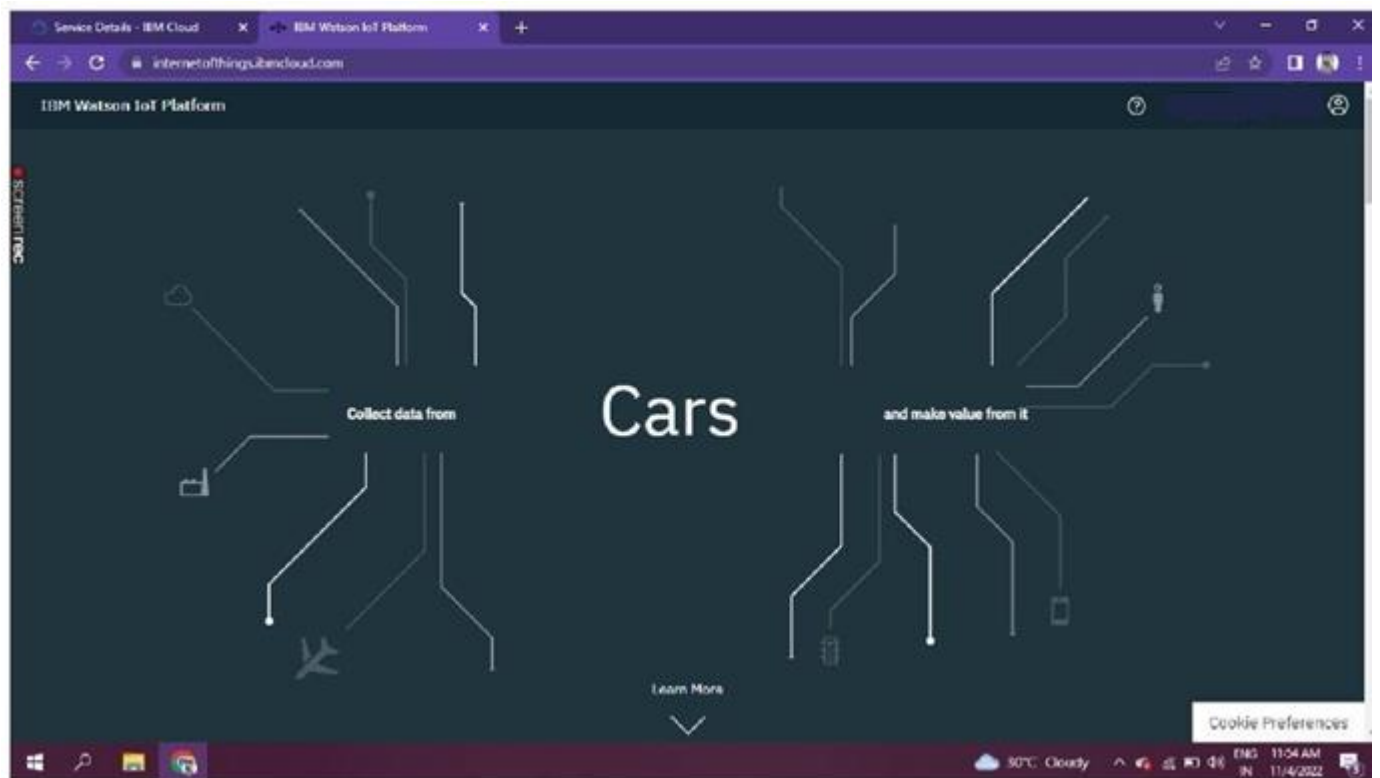
06-11-2022

Cookie Preferences



IBM Watson IoT Platform





Service Details - IBM Cloud

IBM Watson IoT Platform

https://unitatemetofhingubmcloud.com/dashboard/devices/browse

rajahemalatha824@gmail.com

IBM Watson IoT Platform

Browser

Action

Device Types

Interfaces

Add Device

device id

status

device type

class id

last received

✓

abcd

Disconnected

12.5

Device

Nov 4, 2022 11:51 AM

→

...

Identity

Device Information

Recent Events

State

Logs

X

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":99}	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

30°C Cloudy

ENG 11:58 AM

IN 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 features a navigation menu with links to 'home', 'about', 'blog', 'documentation', 'forum', 'flows', and 'github'. The main content area has a large red banner with the text 'Node-RED' and 'Low-code programming for event-driven applications'. Below this, it states 'Latest version: v3.0.2 (npm)'. A section of text describes Node-RED as a programming tool for wiring together hardware devices, APIs, and online services. To the right of this text is a video player showing 'Introduction - Node-RED Essentials'. The browser's taskbar at the bottom includes a search bar and various application icons. The system tray shows the date and time as '06-11-2022' and '08:33'.

Node-RED

home about blog documentation forum flows github

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

https://github.com/node-red

Features Get Started Community

Type here to search

08:33 06-11-2022

IBM Project-2859-16584846 IBM Cloud Node-RED Node-RED: node-red-kpts

node-red-kpts-2022-11-04-eu-gb.mybluemix.net/red/#flow/fd3e4f91c9fae316

Gmail YouTube Maps Smart waste manag... amazon aws - Goo...

Node-RED Deploy

filter nodes

Flow 1

common

- inject
- debug
- complete
- catch
- status
- link in
- link call
- link out
- comment

function

- function

msg.payload

Hello Node-RED!

info

Search flows

Flows

- Flow 1
- Subflows
- Global Configuration Nodes

msg.payload

Node "2f2649a.0d0d98"

Type debug

show more

ctrl click in the workspace to open the quick-add dialog

Type here to search

08:33 06-11-2022

Cloudant DB

The screenshot displays the IBM Cloud console interface for a Cloudant database instance. The top navigation bar includes the IBM logo, a search bar, and links to 'Catalog', 'Manage', and the user profile 'HEMALATHA S.'. The main content area is titled 'Resource list / Cloudant-4e' and shows the instance is 'Active'. A sidebar on the left provides navigation options: 'Manage', 'Service credentials', 'Plan', and 'Connections'. The 'Overview' tab is selected, displaying 'Deployment details' for the instance 'Cloudant-4e'. The details include the CRN, Location (London), External endpoint, External endpoint (preferred), and Authentication methods (IBM Cloud IAM). At the bottom, there is a section for 'Activity Tracker event types' with a 'Management' dropdown and a 'Save' button. The Windows taskbar at the bottom shows the system clock as 13:40 on 06-11-2022.

IBM Cloud

Search resources and products...

Catalog Manage HEMALATHA S.

Resource list / Cloudant-4e Active Add tags

Details Actions...

Manage Overview Capacity Docs Launch Dashboard

Service credentials

Plan

Connections

Deployment details

CRN crn:v1:bluemix:public:cloudantnosqldb:eu-gb:a/aa0f9006eba34a30bb435edefa4c01b1:f90a25f3-b06c-446e-8d94-014017d5d64::

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

Type here to search

13:40 06-11-2022

The screenshot displays the IBM Cloudant Dashboard interface. At the top, there's a purple header bar with navigation links and a dark sidebar on the left with various icons. The main content area is titled "Databases" and features a table listing the databases. The table has five columns: Name, Size, # of Docs, Partitioned, and Actions. Two databases are listed: "sample" and "sudhan". The "sample" database is 2 bytes, has 1 document, and is not partitioned. The "sudhan" database is 4 bytes, has 2 documents, and is not partitioned. The Actions column contains icons for edit, lock, and delete for each database. The bottom status bar shows "Showing 1-2 of 2 databases." and "Databases per page 20".

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