

PREREQUISITES

(IBM cloud service, Software)

Date	25 October 2022
Team ID	PNT2022TMID47356
Project Name	Industry-specific intelligent fire management system
Maximum Marks	8 Marks

IBM Cloud Services:

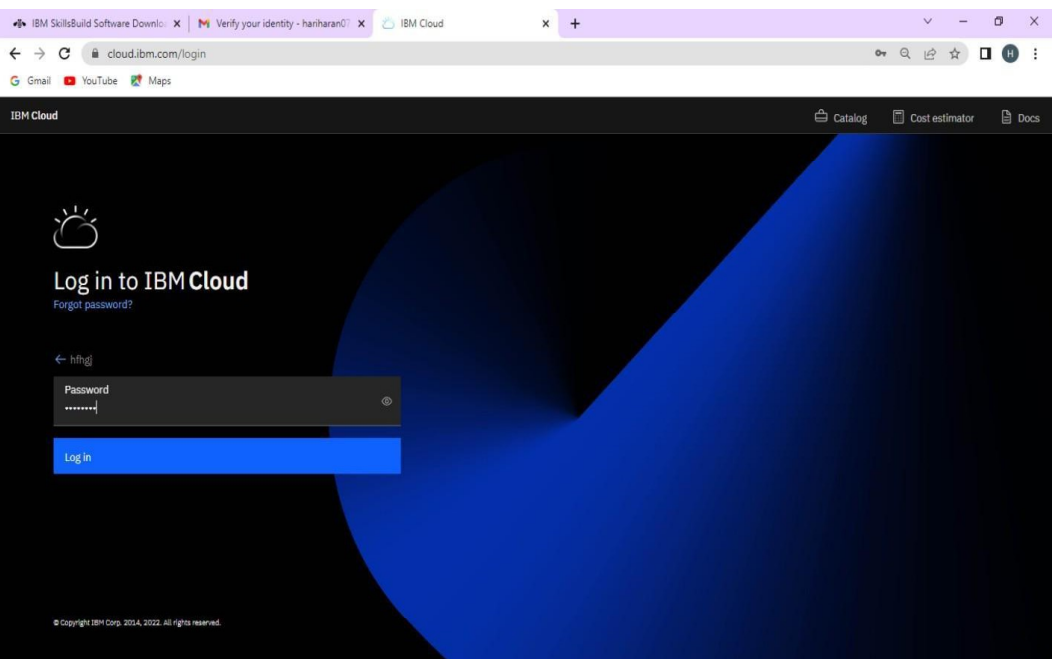
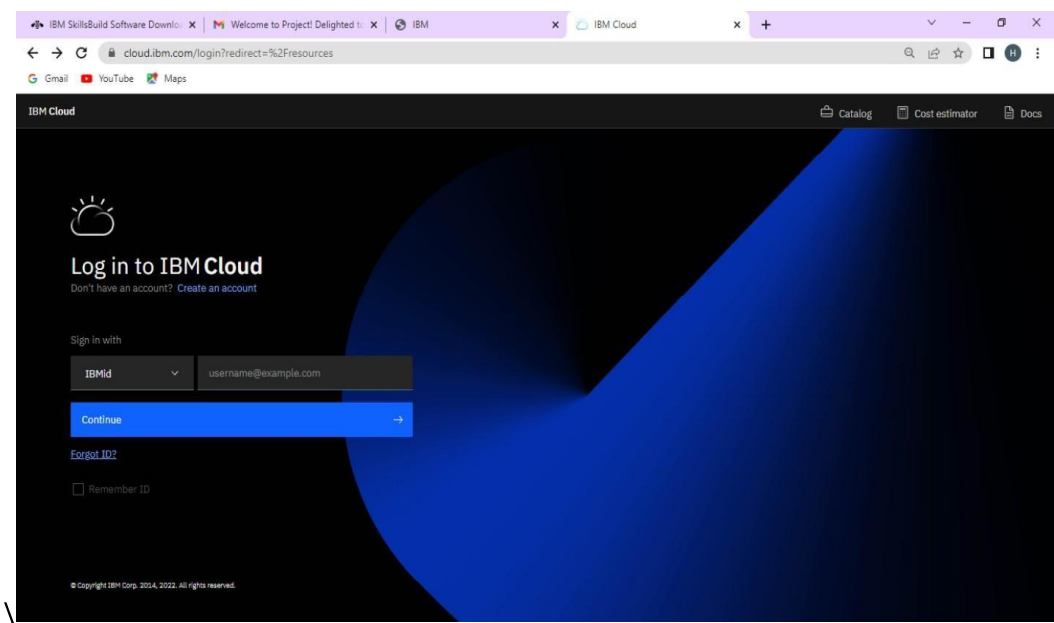
We need to have basic knowledge of the following cloud services:

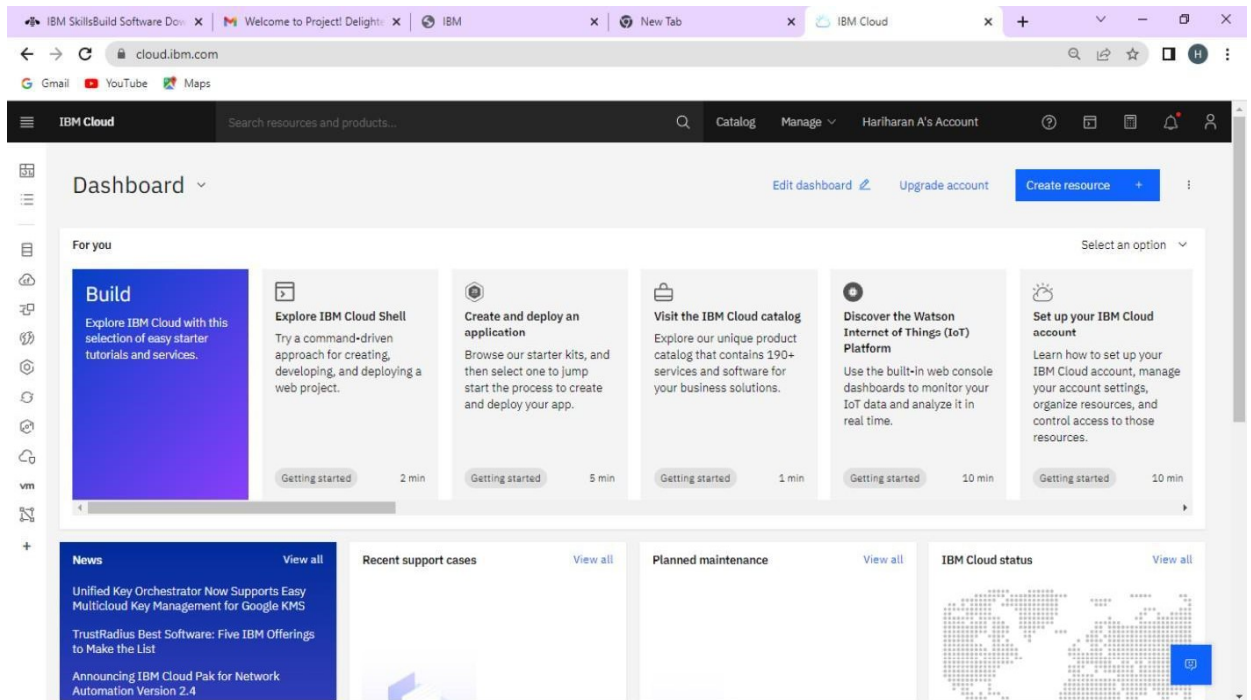
- † IBM Watson IoT Platform
- † Node-RED Service
- † Cloudbant DB

IBM Account Creation:

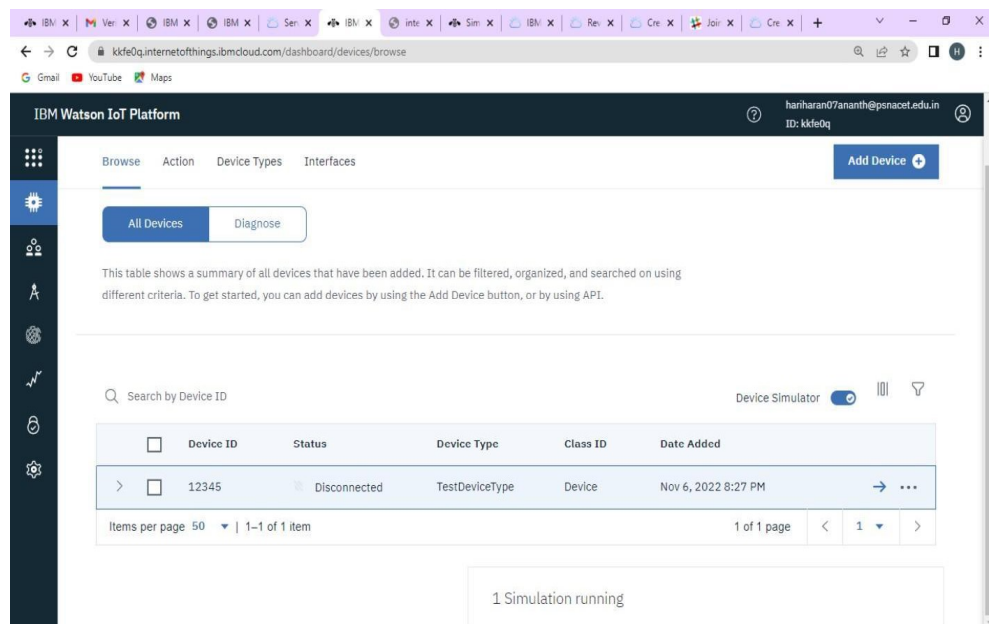
In this we create a account with the register code / promo code using the given mail id at the IBM cloud platform, then login

IBM CLOUD





IBM Watson IoT Platform



NODE-RED SERVICE

The screenshot shows a web browser window with the URL `node-red-vdvp-2022-11-05.eu-gb.mybluemix.net`. The page has a dark red header with the text "Node-RED on IBM Cloud". Below the header is a large red banner with the text "Node-RED" and "Flow-based programming for the Internet of Things". The main content area is white and contains three paragraphs of text. The first paragraph describes Node-RED as a programming tool for wiring together hardware devices, APIs and online services. The second paragraph states that this instance is running as an IBM Cloud application, giving it access to the wide range of services available on the platform. The third paragraph provides more information about Node-RED, including documentation, and mentions that it can be found at `nodered.org`. There are two buttons: "Go to your Node-RED flow editor" and "Learn how to customise Node-RED". The browser's taskbar at the bottom shows various icons and the system clock indicating 10:55 on 05-11-2022.

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](#)

The screenshot shows the Node-RED flow editor interface. The browser window has the URL `node-red-vdvp-2022-11-05.eu-gb.mybluemix.net/red/#flow/96e38f7dd30cbcb86`. The interface includes a left sidebar with a "filter nodes" search bar and two categories of nodes: "common" (inject, debug, complete, catch, status, link in, link call, link out, comment) and "function" (function, switch). The main workspace, titled "Flow 1", contains a flow with two nodes: a "Hello Node-RED!" node and a "msg payload" node, connected by a wire. The right sidebar shows a "debug" console with a list of messages. The messages are as follows:

Time	Node ID	Message
11/5/2022, 10:55:40 AM	node: f2f2649a-0d0d98	msg.payload: string[15] "Hello Node-RED!"
11/5/2022, 10:55:40 AM	node: f2f2649a-0d0d98	msg.payload: string[15] "Hello Node-RED!"
11/5/2022, 10:55:43 AM	node: f2f2649a-0d0d98	msg.payload: string[15] "Hello Node-RED!"

The browser's taskbar at the bottom shows various icons and the system clock indicating 10:55 on 05-11-2022.

Cloudant DB

This screenshot shows the 'Service Details' page for a Cloudant database in the IBM Cloud console. The resource is named 'node-red-eawwb-2022--cloudant-1667472378798' and is in an 'Active' state. The left sidebar contains navigation links for 'Manage', 'Service credentials', 'Plan', and 'Connections'. The main content area is divided into tabs: 'Overview', 'Capacity', and 'Docs'. The 'Overview' tab is selected, displaying 'Deployment details'.

Deployment details

- CRN:** crm:v1:bluemix:public:cloudantnosqldb:eu-gba/385c488a0a5c44ef8e19d6d790a093df7222986-a36d-4897-ab99-49511c5f1aa
- Location:** London
- External endpoint:** <https://ed75f248-e5f6-411c-a1c8-e466095c7806-bluemix.cloudant.com/>
- External endpoint (preferred):** <https://ed75f248-e5f6-411c-a1c8-e466095c7806-bluemix.cloudantnosqldb.appdomain.cloud/>
- Authentication methods:** [IBM Cloud IAM](#), [Cloudant credentials](#), [Migrate to IAM Only](#)
- Activity Tracker event types:** Management (dropdown), Save
- Disk encryption:** Yes. Automatically generated disk encryption key.

This screenshot shows the 'Cloudant Dashboard' for the same database instance. The URL is 'ed75f248-e5f6-411c-a1c8-e466095c7806-bluemix.cloudant.com/dashboard.html'. The page title is 'Databases'. A sidebar on the left contains navigation icons. The main content area shows a table of databases.

Name	Size	# of Docs	Partitioned	Actions
noderedknjp20221104	2.3 KB	2	No	+ - 🔒 🗑️
noderedvvdvp20221105	2.3 KB	2	No	+ - 🔒 🗑️
noderedyqabm20221104	16.1 KB	4	No	+ - 🔒 🗑️

Showing 1-3 of 3 databases. Databases per page: 20. Page 1 of 1.