

PROJECT DEVELOPMENT PHASE

SPRINT 1 - CREATE & CONFIGURE IBM CLOUD

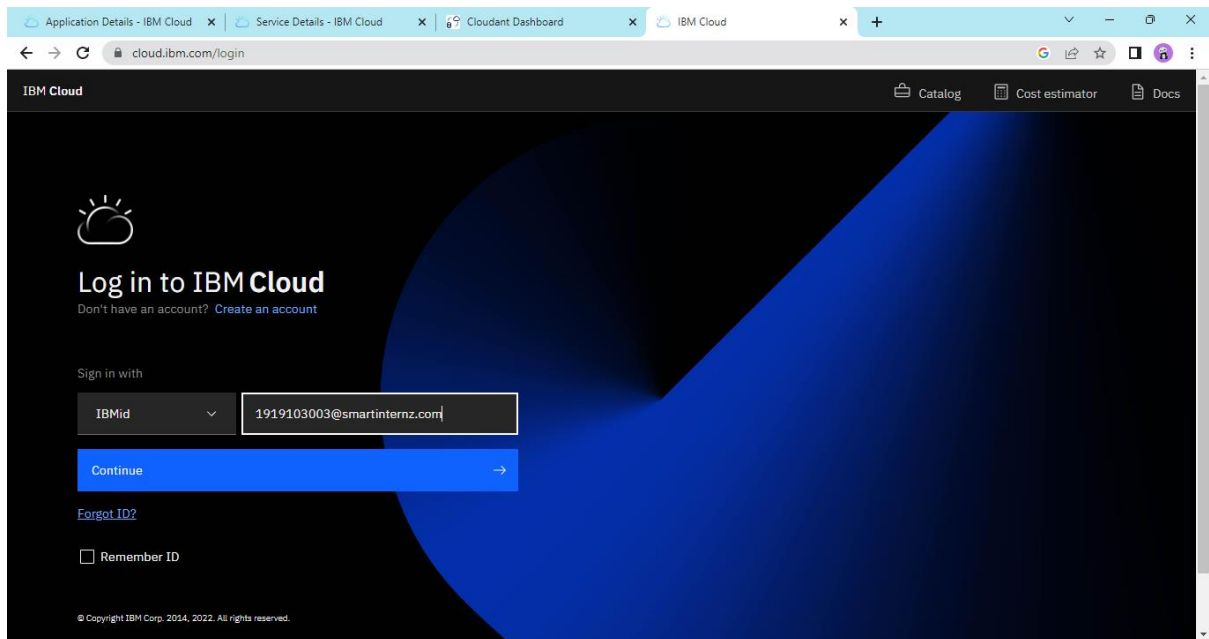
SERVICES

Date	29 October 2022
Team ID	PNT2022TMID18885
Project Name	Project - Personal Assistance for Seniors Who Are Self-Reliant

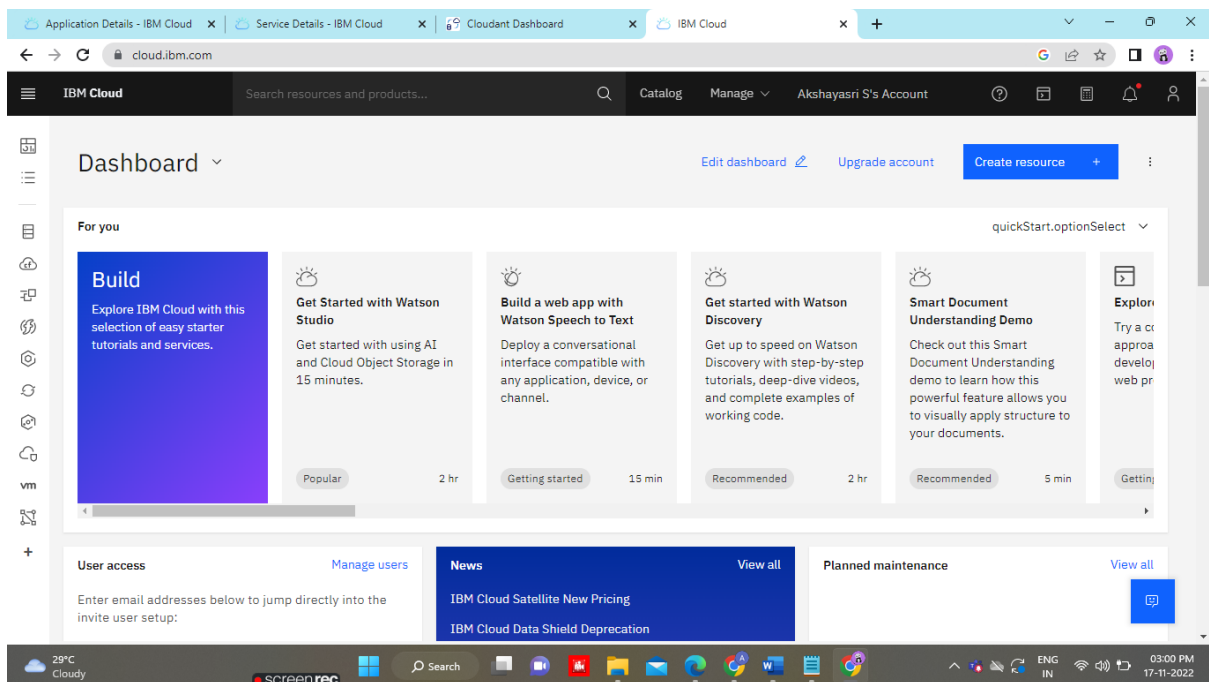
Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-1	Registration: Creation of IBM services like NodeRED, CloudantDB, TTS Service and design of IoT system	USN-1	As a user, I should be able to login into my IBM Cloud account.	2	High	Anne Angelina J, Kawin M
Sprint-2	Web UI: Creating web UI using node-red and connect it to IBM Cloudant db	USN-2	As a user, I should be able to feed the medicine name and intake time in the web UI	2	High	Akshayasri S, Bhavani R K
Sprint-3	Hardware implementation: Developing Python code to retrieve data from cloudant db to send that data to IoT device at the appropriate time	USN-3	As a user, I should be able to send the medicine name to the IoT device at the scheduled time	2	High	Akshayasri S, Kawin M
Sprint-4	Software implementation: Converting the data received from cloud as voice using IBM Text to Speech service	USN-4	As a user, I must be able to hear the medicine name which is to be taken at the appropriate time	2	High	Anne Angelina J, Bhavani R K

1. IBM CLOUD SERVICES

I. LOGIN PAGE:



II. DASHBOARD:



Resource list

Create resource +

Name	Group	Location	Product	Status	Tags
Filter by name or IP address...	Filter by group or org...	Filter...	Filter...	Filter...	Filter...
Compute (1+)					
Containers (0)					
Networking (0)					
Storage (0)					
AI / Machine Learning (1+)					
Analytics (0)					
Blockchain (0)					
Databases (2)					
node-red-vzblb-2022--cloudant-1...	Default	London	Cloudant	Active	-
node-red-vzblb-2022--cloudant-1...	akshayasri / Akshayasri	London	Cloudant	Provisioned	-
Developer tools (12+)					

2. CREATE IBM WATSON PLATFORM & DEVICE

IBM Watson IoT Platform

1919103003@smartinter...
ID: (select org)

Equipment

Collect data from

and make value from it

Learn More

Cookie Preferences

Application Details - IBM Cloud | Service Details - IBM Cloud | Cloudant Dashboard | Node-RED : node-red-xeww | IBM Watson IoT Platform

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

1919103003@smartinternz.com
ID: brtbi

IBM Watson IoT Platform

Browse Action Device Types Interfaces

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
12345	Disconnected	Mydevice01	Device	Nov 15, 2022 7:51 PM

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

0 Simulations running

Application Details - IBM Cloud | Service Details - IBM Cloud | Cloudant Dashboard | Node-RED : node-red-xeww | IBM Watson IoT Platform

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

1919103003@smartinternz.com
ID: brtbi

IBM Watson IoT Platform

Browse Action Device Types Interfaces

Add Device

12345 Disconnected Mydevice01 Device Nov 15, 2022 7:51 PM

Identity Device Information Recent Events State Logs

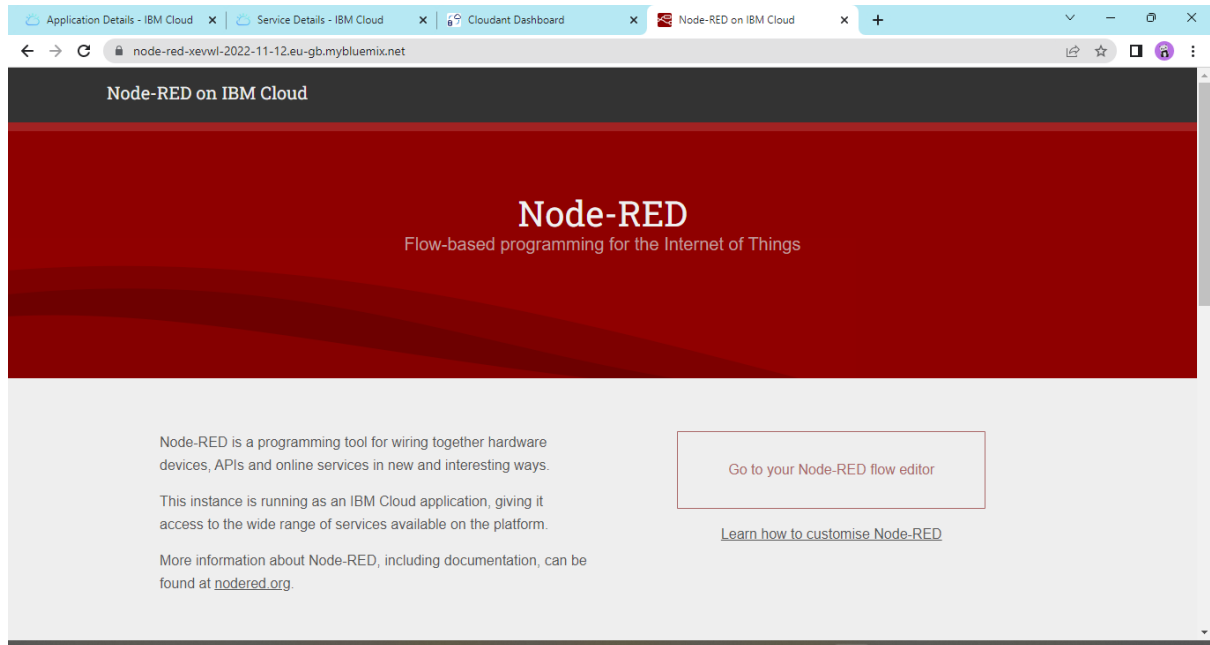
Device ID 12345
Device Type Mydevice01
Date Added Nov 15, 2022 7:51 PM
Added By 1919103003@smartinternz.com
Connection Status Disconnected
Last Connected: Nov 17, 2022 2:04 PM
Client Address: 210.212.252.105 SecureToken
Duration: 2 minutes
Data Transferred: 6.6 KB

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

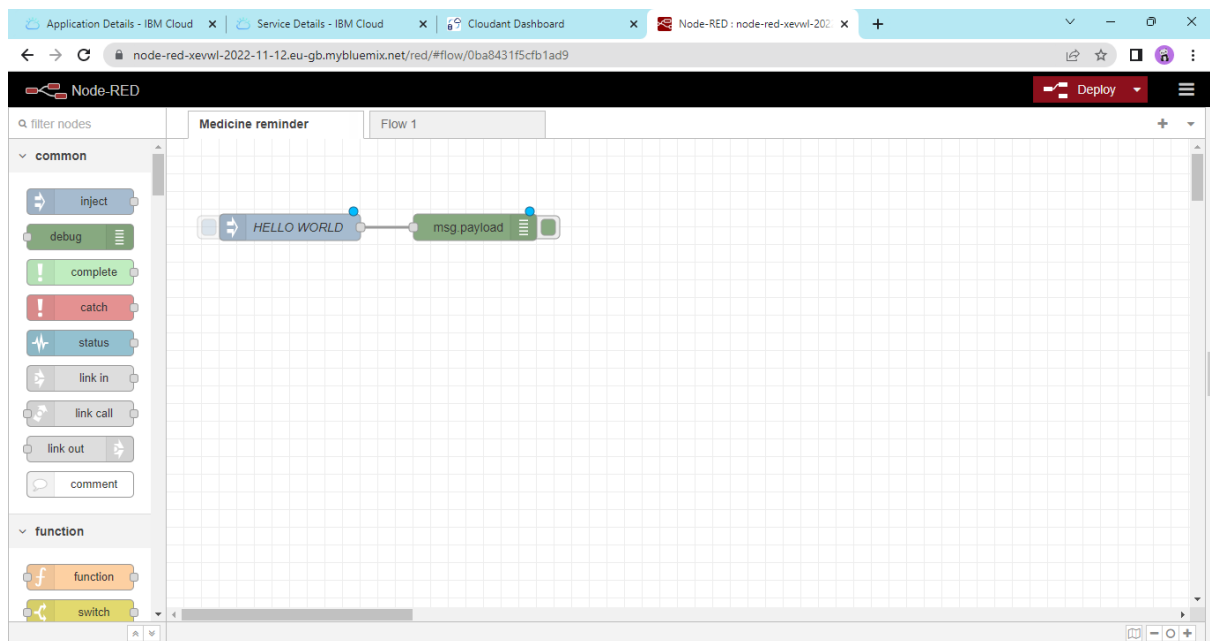
0 Simulations running

3. CREATE NODE-RED SERVICE

I. NODE-RED PLATFORM:

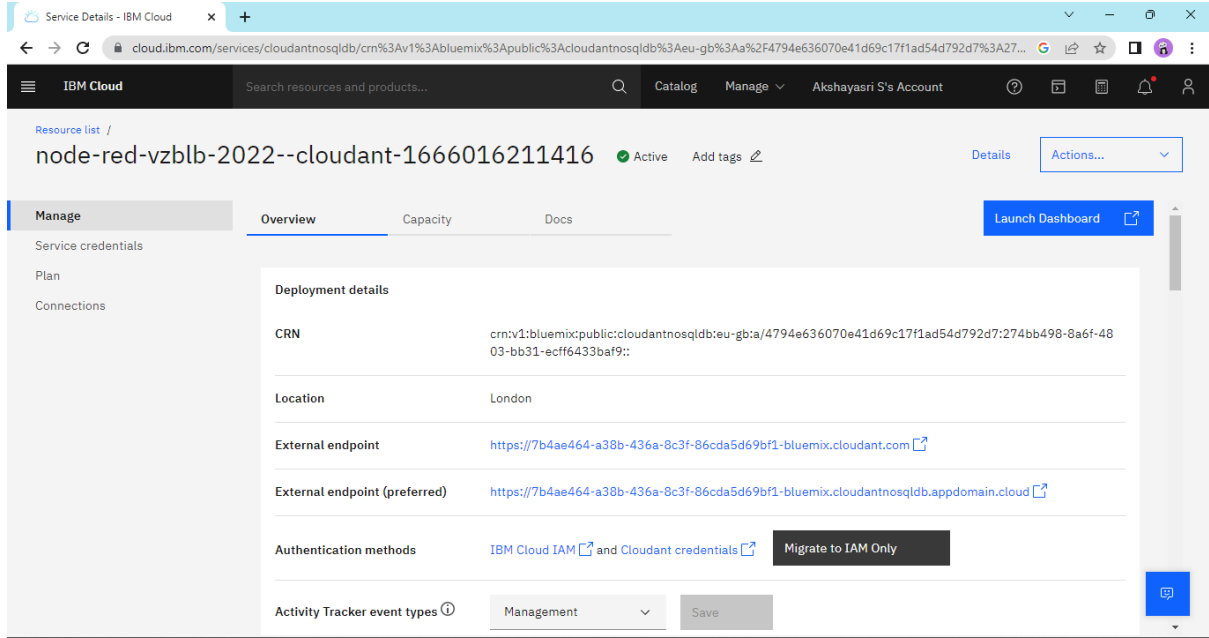


II. NODE-RED FLOW EDITOR:



4. CREATE A DATABASE IN CLOUDANT DB

I. CLOUDANT SERVICE:



This screenshot shows the 'Service Details' page for a Cloudant database instance in the IBM Cloud console. The instance is named 'node-red-vzblb-2022--cloudant-1666016211416' and is in an 'Active' state. The 'Overview' tab is selected, displaying deployment details such as the CRN, location (London), and external endpoints. A 'Launch Dashboard' button is visible in the top right corner.

Resource list / node-red-vzblb-2022--cloudant-1666016211416 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/4794e636070e41d69c17f1ad54d792d7:274bb498-8a6f-4803-bb31-ecff6433baf9::

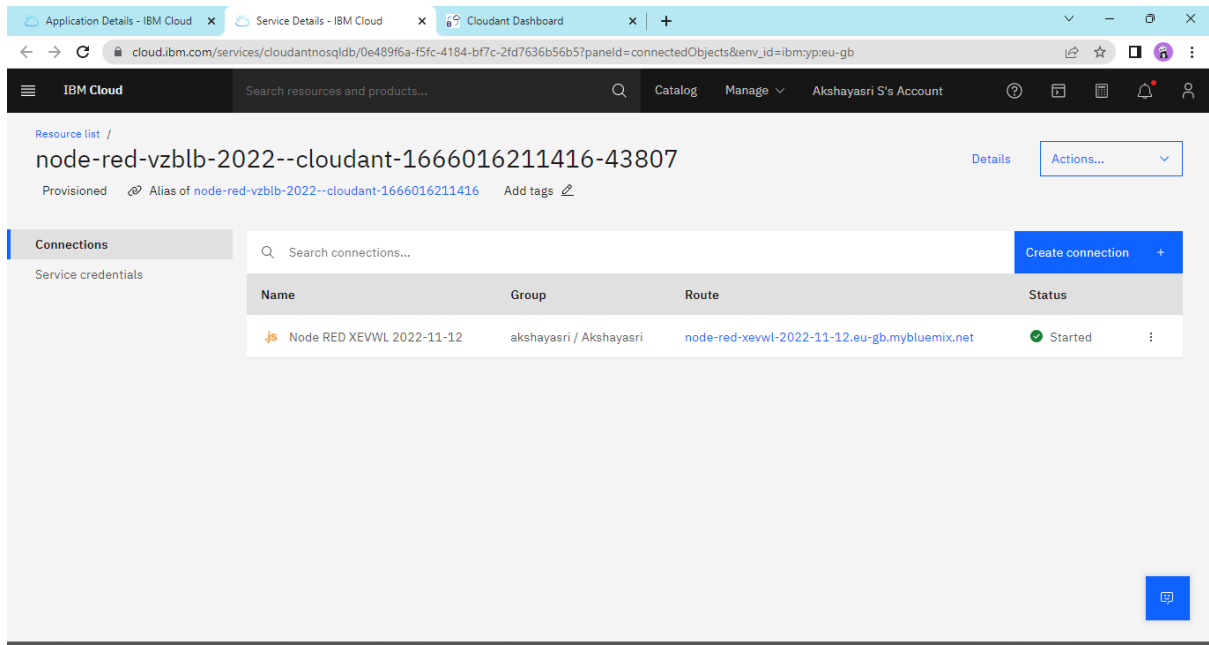
Location London

External endpoint <https://7b4ae464-a38b-436a-8c3f-86cda5d69bf1-bluemix.cloudant.com>

External endpoint (preferred) <https://7b4ae464-a38b-436a-8c3f-86cda5d69bf1-bluemix.cloudantnosqldb.appdomain.cloud>

Authentication methods [IBM Cloud IAM](#) and [Cloudant credentials](#) [Migrate to IAM Only](#)

Activity Tracker event types [Management](#) [Save](#)




This screenshot shows the 'Connections' page for the same Cloudant database instance. The instance is now named 'node-red-vzblb-2022--cloudant-1666016211416-43807' and is in a 'Provisioned' state. A new connection has been created, named 'Node RED XEVL 2022-11-12', with a status of 'Started'.

Resource list / node-red-vzblb-2022--cloudant-1666016211416-43807 [Details](#) [Actions...](#)

Provisioned [Alias of node-red-vzblb-2022--cloudant-1666016211416](#) [Add tags](#)

Connections [Search connections...](#) [Create connection](#)

Service credentials

Name	Group	Route	Status
 Node RED XEVL 2022-11-12	akshayasri / Akshayasri	node-red-xevwl-2022-11-12.eu-gb.mybluemix.net	Started

CREATION STATUS: ACTIVE

II. SERVICE CREDENTIALS:

The screenshot shows the Cloudant Databases dashboard. The browser tabs include 'Application Details - IBM Cloud', 'Service Details - IBM Cloud', and 'Cloudant Dashboard - _all_dbs'. The URL is '7b4ae464-a38b-436a-8c3f-86cda5d69bf1-bluemix.cloudant.com/dashboard.html#/_all_dbs'. The dashboard header shows 'Databases' and a 'Database name' dropdown. A 'Create Database' button is visible. The main content area, titled 'Your Databases', contains a table with the following data:

Name	Size	# of Docs	Partitioned	Actions
noderedxeowl20221112	31.5 KB	5	No	[Icons for actions]

At the bottom, it says 'Showing 1-1 of 1 databases. Databases per page: 20'.

The screenshot shows the Cloudant document view for the database 'noderedxeowl20221112'. The browser tabs include 'Application Details - IBM Cloud', 'Service Details - IBM Cloud', and 'Cloudant Dashboard - database/'. The URL is '7b4ae464-a38b-436a-8c3f-86cda5d69bf1-bluemix.cloudant.com/dashboard.html#database/noderedxeowl20221112/_all_docs'. The document view header shows 'Document ID' and a 'Document ID' dropdown. A 'Create Document' button is visible. The main content area, titled 'All Documents', contains a table with the following data:







id	key	value
3546b6596b54937b346a39ee8c54a...	3546b6596b54937b346a39ee8c54a...	{ "rev": "1-4dbd80ab6e655d7ba1af92..." }
._design/library	._design/library	{ "rev": "1-c93136490a0976308f8b3..." }
nodered/credential	nodered/credential	{ "rev": "7-7b748300b8f839411462c..." }
nodered/flow	nodered/flow	{ "rev": "40-2c367f8dbdc157f6d78bd..." }
nodered/settings	nodered/settings	{ "rev": "24-8611b4ef1652b194d9a5..." }

At the bottom, it says 'Showing document 1 - 5. Documents per page: 20'.

CREDENTIALS: GENERATED


III. CREATE DATABASE IN CLOUDANT DB:

The screenshot shows the Cloudant Dashboard with the 'Databases' page. The page title is 'Databases'. There is a search bar for 'Database name' and buttons for 'Create Database', 'JSON', and a notification bell. Below the search bar, there is a table with the following data:

Name	Size	# of Docs	Partitioned	Actions
medicine	0 bytes	0	No	  
noderedxevwl20221112	31.5 KB	5	No	  

At the bottom of the page, it says 'Showing 1-2 of 2 databases. Databases per page: 20'. There is a 'Log Out' button in the bottom left corner.

The screenshot shows the Cloudant Dashboard with the 'medicine' database details. The page title is 'medicine'. There is a search bar for 'Document ID' and buttons for 'Options', 'JSON', and a notification bell. Below the search bar, there is a table with the following data:

id	key	value
 53d664c6de6a5b44879597bcca5d8f...	53d664c6de6a5b44879597bcca5d8f...	{ "rev": "1-4dbd80ab6e655d7ba1af92..." }

At the bottom of the page, it says 'Showing document 1 - 1. Documents per page: 20'. There is a 'Log Out' button in the bottom left corner.

5. CREATE TEXT TO SPEECH SERVICE

