

PREREQUISITES

(IBM Cloud Service, Software)

Date	22 October 2022
Team ID	PNT2022TMID47980
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
- ✦ 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

The screenshot shows the IBM Cloud login page in a web browser. The browser's address bar displays the URL `cloud.ibm.com/login?state=%2F&sessionExpired=true`. The page header includes the IBM Cloud logo and navigation links for 'Catalog', 'Cost estimator', and 'Docs'. The main content area features the IBM Cloud logo and the heading 'Log in to IBM Cloud' with the subtext 'Your session expired. Log back in to continue.' Below this, a 'Sign in with' section shows a dropdown menu set to 'IBMid' and a text input field containing the email address 'tskarthicktskarthick6778@gmail.com'. A blue 'Continue' button with a right-pointing arrow is positioned below the email field. A link for 'Forgot ID?' is located below the 'Continue' button. At the bottom left, there is a checkbox labeled 'Remember ID'. A 'Cookie Preferences' link is visible in the bottom right corner. The footer contains the copyright notice '© Copyright IBM Corp. 2014, 2022. All rights reserved.'

IBM Cloud

Log in to IBM Cloud

Your session expired. Log back in to continue.

Sign in with

IBMid

tskarthicktskarthick6778@gmail.com

Continue

[Forgot ID?](#)

☐ Remember ID

[Cookie Preferences](#)

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This screenshot shows the same IBM Cloud login page, but at a later stage in the process. The email address 'tskarthicktskarthick6778@gmail.com' is now displayed above the password field. The 'Continue' button has been replaced by a blue 'Log in' button. The 'Forgot password?' link is now visible below the heading. The rest of the page, including the browser tabs, header, and footer, remains the same as in the previous screenshot.

IBM Cloud

Log in to IBM Cloud

[Forgot password?](#)

← tskarthicktskarthick6778@gmail.com

Password

Log in

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IBM Cloud

Search resources and products...

Catalog

Manage

T S Karthick's Account

Dashboard

Build

Explore IBM Cloud with this selection of easy starter tutorials and services.

Explore IBM Cloud Shell

Try a command-driven approach for creating, developing, and deploying a web project.

Getting started

2 min

Create and deploy an application

Browse our starter kits, and then select one to jump start the process to create and deploy your app.

Getting started

5 min

Visit the IBM Cloud catalog

Explore our unique product catalog that contains 190+ services and software for your business solutions.

Getting started

1 min

Build a web app with Watson Speech to Text

Deploy a conversational interface compatible with any application, device, or channel.

Getting started

15 min

Get Started with IBM Cloud Studio

Get started with IBM Cloud Studio in 15 minutes.

Getting started

15 min

User access

Manage users

Enter email addresses below to jump directly into the invite user setup.

News

View all

Introducing Badges to IBM Cloud Certification

Planned maintenance

View

IBM Cloud

Search resources and products...

Catalog

Manage

T S Karthick's Account

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)					
Node RED FCNbv 2022-10-31	tskarthicktskarthick6778@gmail.com / dev	Dallas	Node.js	Started	
Containers (0)					
Networking (0)					
Storage (0)					
AI / Machine Learning (0)					
Analytics (0)					
Blockchain (0)					
Databases (2)					
node-red-fcnbv-2022--cloudant-1667210203836	Default	London	Cloudant	Active	
node-red-fcnbv-2022--cloudant-166721020383...	tskarthicktskarthick6778@gmail.com / dev	Dallas	Cloudant	Provisioned	
Developer tools (4)					
Continuous Delivery	Default	London	Continuous Delivery	Active	

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cloud.ibm.com/services/iotf-service/crn%3Av1%3Abluemix%3Apublic%3Aiotf-service%3Aeu-de%3Aa%2F9b55979f29d14ba0be440e736f67d04b%...

Circuit design Editi... Gmail YouTube Maps News Translate W Assignment - 4 ESP32 - Ultrasonic... ep32 with ultrasoni... Internet of Things P... Review Estimate - I...

IBM Cloud Search resources and products... Catalog Manage T S Karthick's Account

Resource list / Internet of Things Platform-2p Active Add tags Details Actions...

ManagePlanConnections



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

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88653s.internetofthings.ibmcloud.com/dashboard/devices/browse

Circuit design Editi... Gmail YouTube Maps News Translate W Assignment - 4 ESP32 - Ultrasonic... ep32 with ultrasoni... Internet of Things P... Review Estimate - I...

IBM Watson IoT Platform tsarkthicktsarkthick6778@gmail.com ID: 88653s

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	Descriptive Location	Added By	Device Class			
> iot_device_1	Connected	iot_device	Device	Nov 18, 2022 7:22 PM		tsarkthicktsarkthick6778@gmail.com				
> iot_device_2	Connected	iot_device	Device	Nov 18, 2022 7:22 PM		tsarkthicktsarkthick6778@gmail.com				
▼ iot_device_3	Connected	iot_device	Device	Nov 18, 2022 7:22 PM		tsarkthicktsarkthick6778@gmail.com	→ ...			
Identity	Device Information	Recent Events	State	Logs						
Device ID	iot_device_3									
Device Type	iot_device									
Date Added	Nov 18, 2022 7:22 PM									
Added By	tsarkthicktsarkthick6778@gmail.com									

5 Simulations running

IBM Cloud

Resource list /

Node RED FCNBV 2022-10-31

Running Visit App URL Add tags

Details Actions...

Getting started

Overview

Runtime

Connections

Logs

API Management

Autoscaling

IBM Cloud Foundry Public is being deprecated. Please see [full details](#).

Instances

Health

100%

1/1 instance(s) are running

MB memory per instance

0 256 128

Runtime

Node.js

128

Total MB allocation

128 MB still available

Used Free

Runtime cost

Current and estimated cost excludes connected services.

\$ 0.00 | \$ 0.00

Connections (1)

node-red-fcnbv-2022--cloudant-1667210203836-54884

IBM Cloud

Resource list /

node-red-fcnbv-2022--cloudant-1667210203836

Active Add tags

Details Actions...

Manage

Service credentials

Plan

Connections

Overview Capacity Docs

Launch Dashboard

Deployment details

CRN crn:v1:bluemix:public:cloudantnosqldb:eu-gb:a/9b55979f29d14ba0be440e736f67d04b:ca2e104d-b62a-4995-96e6-f8335e0d8433::

Location London

External endpoint <https://850aba3e-5fb0-4089-9ee7-2c6521dd5f44-bluemix.cloudant.com>

External endpoint (preferred) <https://850aba3e-5fb0-4089-9ee7-2c6521dd5f44-bluemix.cloudantnosqldb.appdomain.cloud>

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

Activity Tracker event types ① Management Save

Disk encryption Yes. Automatically generated disk encryption key.

NODE-RED SERVICE

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

[Go to your Node-RED flow editor](#)

[Learn how to customise Node-RED](#)

IBM App Development

Node-RED : node-red-vdvp-2022-11-05.eu-gb.mybluemix.net/red/#flow/96e38f7dd30cbc86

Node-RED

Filter nodes

common

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

function

- function
- switch

Flow 1

Hello Node-RED!

msg payload

debug

all nodes

all

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!"

Type here to search

10:55 05-11-2022

Cloudant DB

Resource list / node-red-fcnbv-2022--cloudant-1667210203836 Active Add tags

Details Actions...

Manage Overview Capacity Docs Launch Dashboard

Service credentials
Plan
Connections

Deployment details

CRN	crm:v1:bluemix:public:cloudantnosqldb:eu-gb:a/9b55979f29d14ba0be440e736f67d04b:ca2e104d-b62e-4995-96e6-f8335e0d8433::
Location	London
External endpoint	https://850aba3e-5fb0-4089-9ee7-2c6521dd5f44-bluemix.cloudant.com
External endpoint (preferred)	https://850aba3e-5fb0-4089-9ee7-2c6521dd5f44-bluemix.cloudantnosqldb.appdomain.cloud
Authentication methods	IBM Cloud IAM and Cloudant credentials Migrate to IAM Only
Activity Tracker event types	Management Save
Disk encryption	Yes. Automatically generated disk encryption key.

Capacity details

You are currently subscribed to the Lite plan. Upgrade

Databases Database name Create Database { } JSON

Your Databases

Name	Size	# of Docs	Partitioned	Actions
noderedfcnbv20221031	16.5 KB	3	No	

Showing 1–1 of 1 databases. Databases per page 20 « 1 »

