

Create And Configure IBM Cloud Service

Create A Database in Cloudant DB

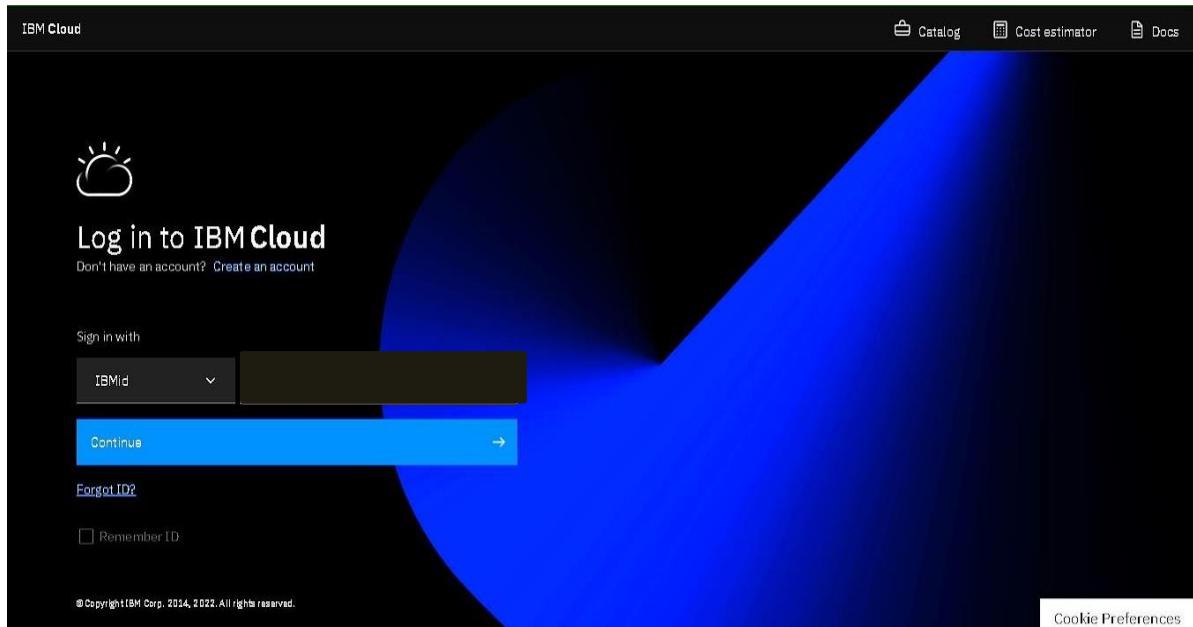
Team ID	PNT2022TMID38861
Project Name	IoT Based Safety Gadget For Child Safety Monitoring & Notification
Maximum Marks	4 Marks

AIM

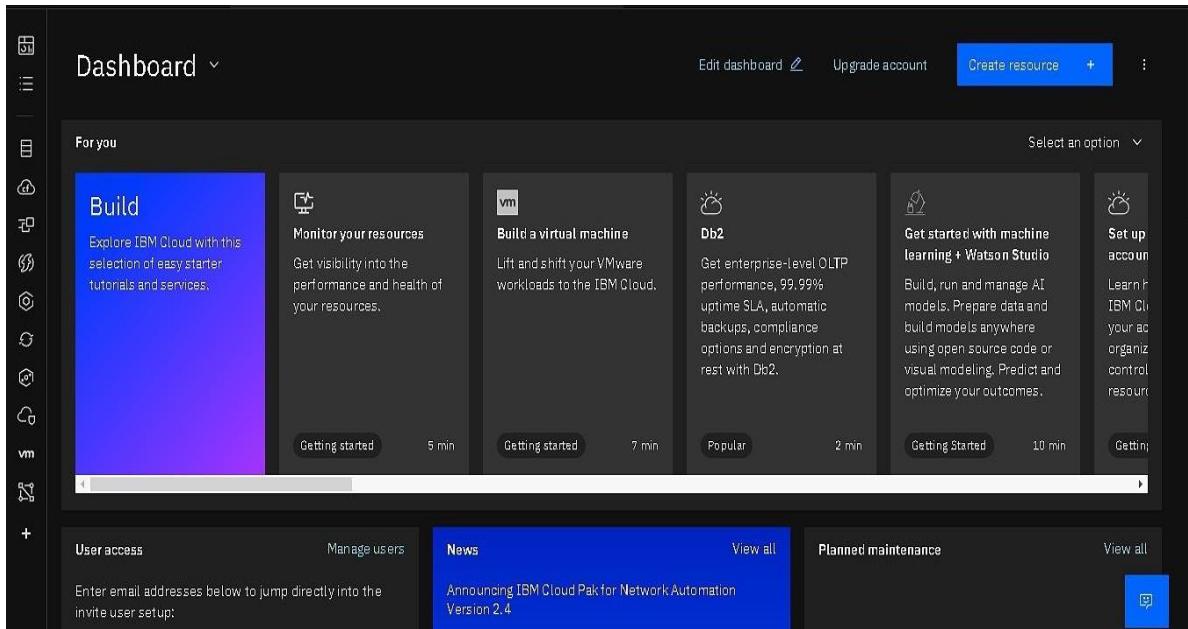
To create a database in Cloudant DB to store location data

STEPS

1. Login to IBM Cloud with smart internz mail ID and Password.

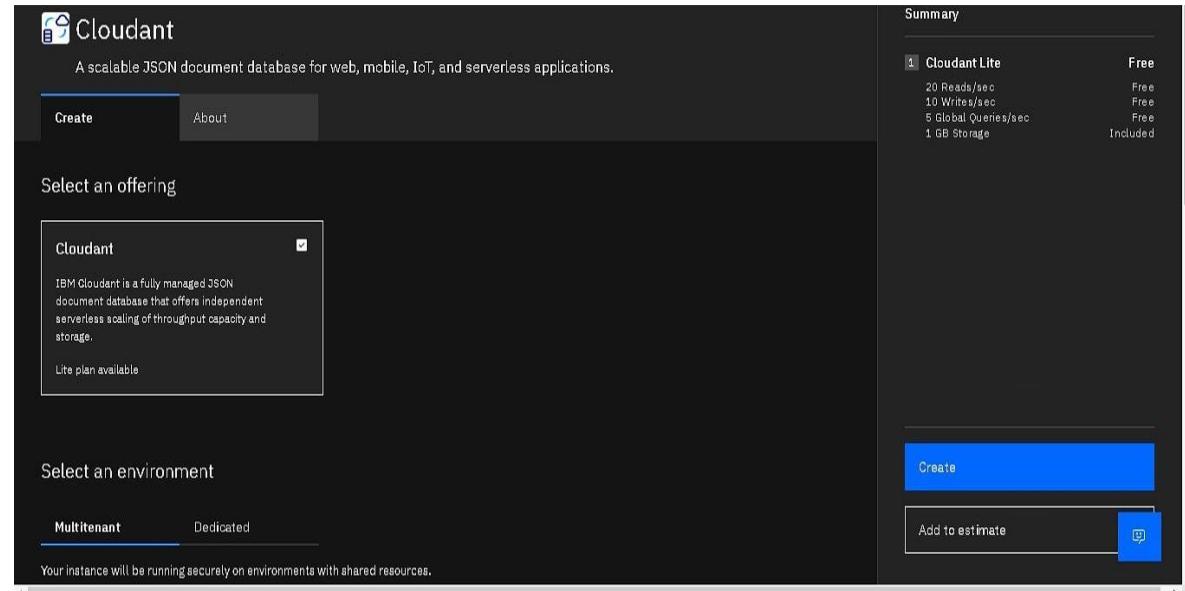


2. Click “Create Resource +” button



The screenshot shows the IBM Cloud dashboard. At the top right, there is a blue button labeled "Create resource +" with a white plus sign. The dashboard features several cards: "Build" (Explore IBM Cloud with this selection of easy starter tutorials and services), "Monitor your resources" (Get visibility into the performance and health of your resources), "Build a virtual machine" (Lift and shift your VMware workloads to the IBM Cloud), "Db2" (Get enterprise-level OLTP performance, 99.99% uptime SLA, automatic backups, compliance options and encryption at rest with Db2), "Get started with machine learning + Watson Studio" (Build, run and manage AI models. Prepare data and build models anywhere using open source code or visual modeling. Predict and optimize your outcomes.), and "Set up account" (Learn how to use IBM Cloud's organizational control resources). Below these cards, there are sections for "User access" (Manage users), "News" (View all, Announcing IBM Cloud Pak for Network Automation Version 2.4), and "Planned maintenance" (View all).

3. Search Cloudant in Catalog then Choose the Lite version



The screenshot shows the Cloudant offering details page. On the left, there is a sidebar with a "Create" button and an "About" button. The main content area has a heading "Select an offering" and a section for "Cloudant". It describes Cloudant as a scalable JSON document database for web, mobile, IoT, and serverless applications. A note says "Lite plan available". On the right, there is a "Summary" table:

Offering	Performance	Storage
Cloudant Lite	Free	Free
	20 Reads/sec	Free
	10 Writes/sec	Free
	5 Global Queries/sec	Free
	1 GB Storage	Included

At the bottom, there is a "Create" button and an "Add to estimate" button.

The screenshot shows the IBM Cloud service catalog interface. On the left, there's a sidebar for 'Authentication method' with 'IAM' selected. Below it, a 'Plan' section compares 'Lite' and 'Standard' plans. The 'Lite' plan is checked and highlighted in blue, with a description: 'Full functionality for development and evaluation with a set capacity. Only one Lite plan instance per account.' It also notes 'Free - Only in multi-tenant'. The 'Standard' plan is unselected with a description: 'Granular control over provisioned throughput capacity allocated. Billing prorated hourly.' and a price of 'Starting at \$75.00/month'. In the center, a 'Capacity' summary table shows: 20 Reads per second, 10 Writes per second, 5 Queries per second, and 1 GB Storage included. On the right, a 'Summary' panel shows a single instance of the 'Cloudant Lite' service with the following details:

Cloudant Lite	Free
20 Reads/sec	Free
10 Writes/sec	Free
5 Global Queries/sec	Free
1 GB Storage	Included

At the bottom right are 'Create' and 'Add to estimate' buttons.

4. The Cloudant database resource created

The screenshot shows the 'Cloudant-nh' database resource details page. At the top, there are tabs for 'Manage', 'Overview' (which is selected), 'Capacity', and 'Docs'. There are also 'Details' and 'Actions...' buttons. A 'Launch Dashboard' button is located on the right. The main content area is titled 'Deployment details' and includes the following information:

CRN	com:v1:bluemix:public:cloudantnosqldb:eu-de:a/62d771738e1846dca95c25b2d90a1161:17d19611-d037-42d5-b3f1-078ae9d02636::
Location	Frankfurt
External endpoint	https://6bf9feff-495f-47e0-85ad-64c9e643497b-bluemix.cloudant.com
External endpoint (preferred)	https://6bf9feff-495f-47e0-85ad-64c9e643497b-bluemix.cloudantnosqldb.appdomain.cloud
Authentication methods	IBM Cloud IAM
Activity Tracker event types	[progress bar]
Disk encryption	Yes. Automatically generated disk encryption key.

5. click on launch dashboard

The screenshot shows the Cloudant DataBases dashboard. On the left is a dark sidebar with various icons: a double arrow, a chart, a gear, a person, a clock, a magnifying glass, and a log out button at the bottom. The main area has a header "Databases" with a search bar "Database name" and buttons for "Create Database", "JSON", and a bell icon. Below is a table titled "Your Databases" with columns: Name, Size, # of Docs, Partitioned, and Actions. One row is listed: "child_safety_gadget" with "0 bytes", "0", "No", and three action icons (refresh, lock, delete). At the bottom, it says "Showing 1–1 of 1 databases." with a dropdown for "Databases per page" set to 20, and navigation links for previous and next pages.

8. Click “Create Database”. Entered “child_safety_device” as the database name and the “Non-partitioned” option.

9. The database “child_safety_device” has been created and it's work Successfully

RESULT:

A database to store the location data on Cloudant DataBase has been created successfully.

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