

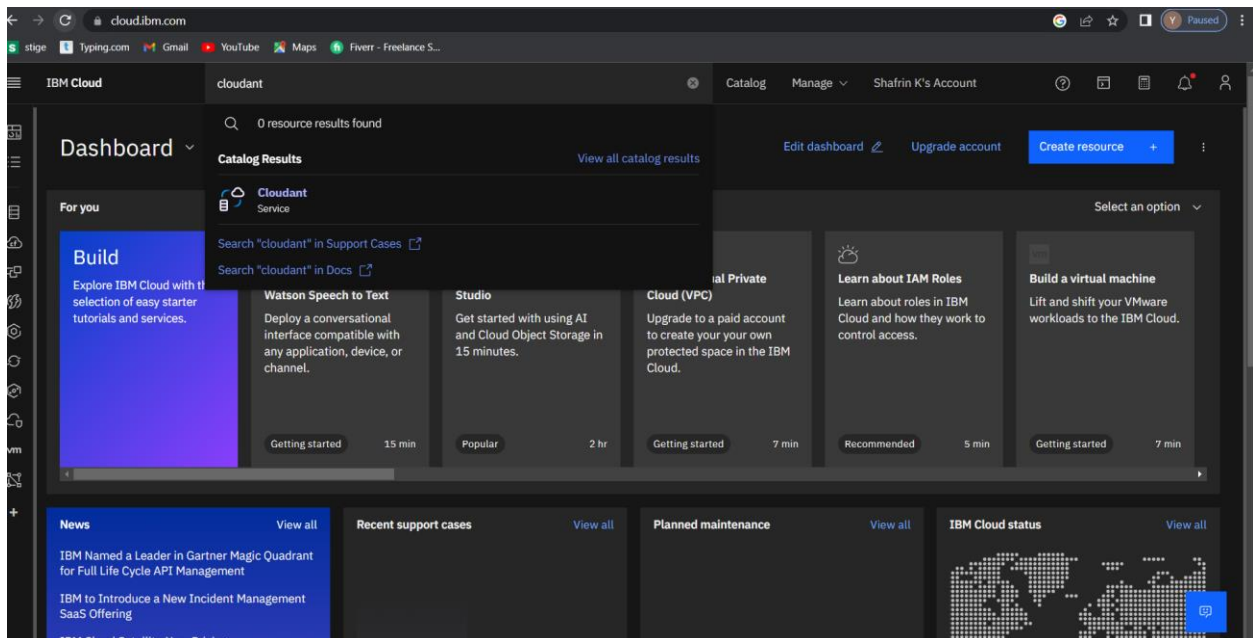
## CREATION OF DATABASE IN CLOUDANT DB

|               |  |
|---------------|--|
| TEAM ID       | PNT2022TMID24852                                       |
| PROJECT TITLE | IoT BASED SMART CROP PROTECTION SYSTEM FOR AGRICULTURE |
| DATE          | 05 NOVEMBER 2022                                       |

IBM Cloud it has integration capacity for legacy products software engineer. Ease to spin up service and operate, it has good migration services and cloud PAK system. It has many open-source tools for migration, best security as well. Creating a database to store the image URL.

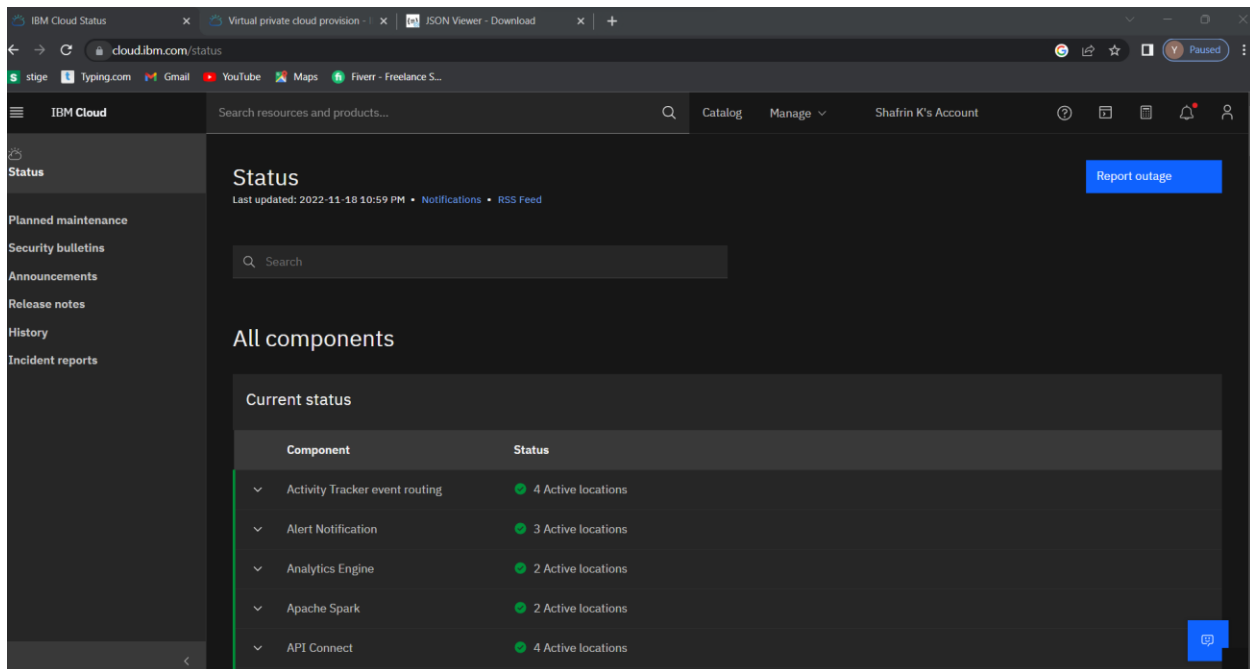
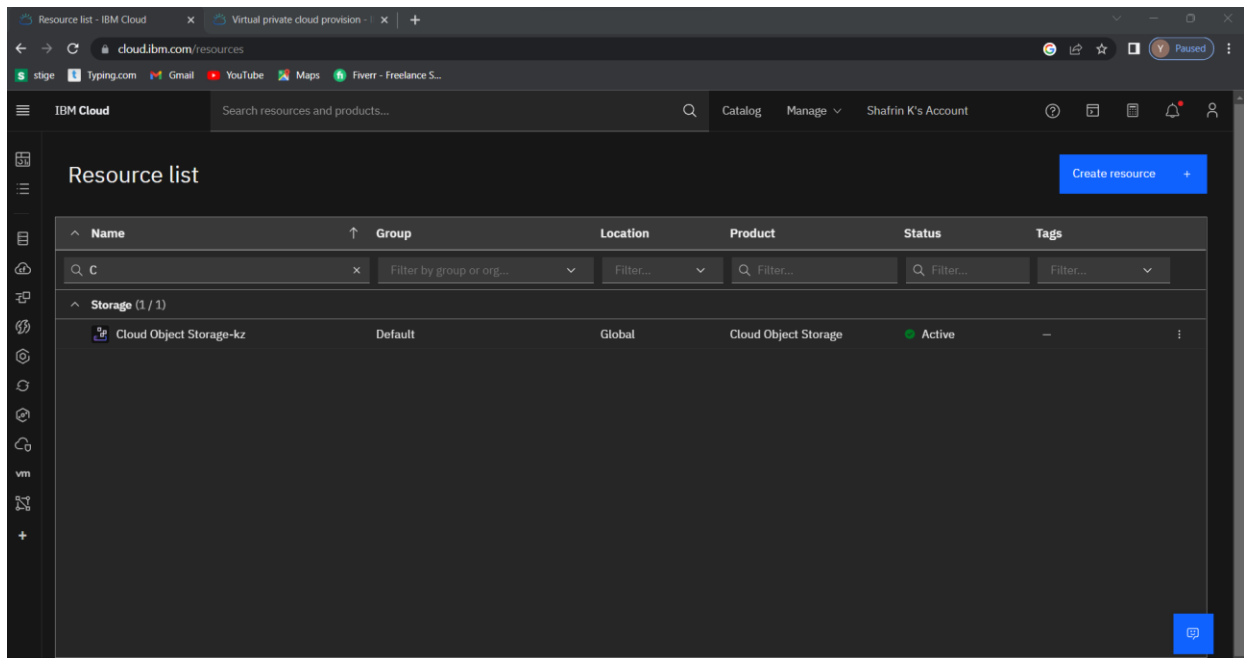
### STEP 1:

- Creation of Cloudant-f4.



## STEP 2:

- Then in the resource list the cloudant-f4 is active



### STEP 3:

- Then in the cloudant-f4 launch the Dashboard

The screenshot shows the 'Overview' tab for a resource named 'Cloudant-f4'. The status is 'Active'. The left sidebar contains links for 'Manage', 'Service credentials', 'Plan', and 'Connections'. The main content area displays 'Deployment details' with the following information:

- CRN:** crm:v1:bluemix:public:cloudantnosqldb:eu-gb:a/c108e8631a304b8cb2cd7b2f1f633180:44a608dc-e370-40a6-a1cd-1f617098fc30::
- Location:** London
- External endpoint:** <https://51c6de4c-f691-4ece-8d35-b329a9cde239-bluemix.cloudant.com>
- External endpoint (preferred):** <https://51c6de4c-f691-4ece-8d35-b329a9cde239-bluemix.cloudantnosqldb.appdomain.cloud>
- Authentication methods:** IBM Cloud IAM and Cloudant credentials. A button 'Migrate to IAM Only' is present.
- Activity Tracker event types:** A dropdown menu is set to 'Management' with a 'Save' button.
- Disk encryption:** Yes. Automatically generated disk encryption key.

Buttons for 'Details', 'Actions...', and 'Launch Dashboard' are visible in the top right.

### STEP 4:

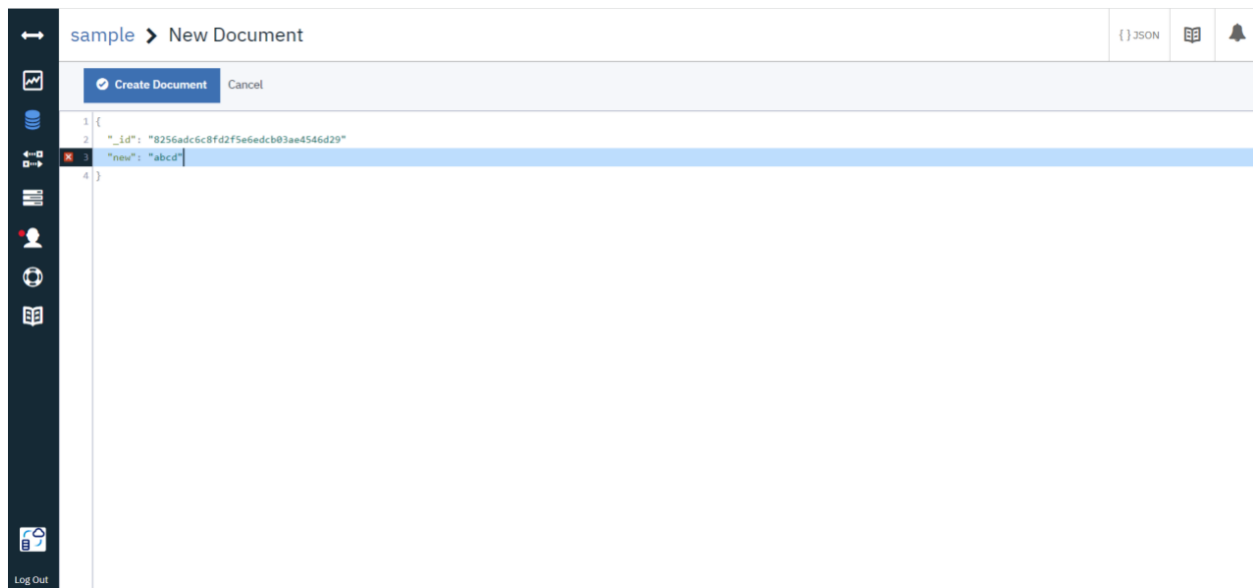
- Give the desired file name and create Database.

The screenshot shows the 'Databases' page in the Cloudant console. A 'Create Database' modal is open on the right side. The modal contains the following fields and options:

- Database name:** A text input field containing the word 'sample'.
- Partitioning:** Two radio button options: 'Non-partitioned - recommended for most workloads' (which is selected) and 'Partitioned'.
- Which should I choose?:** A section with a right-pointing arrow and a text input field.
- Buttons:** 'Cancel' and 'Create' buttons at the bottom of the modal.

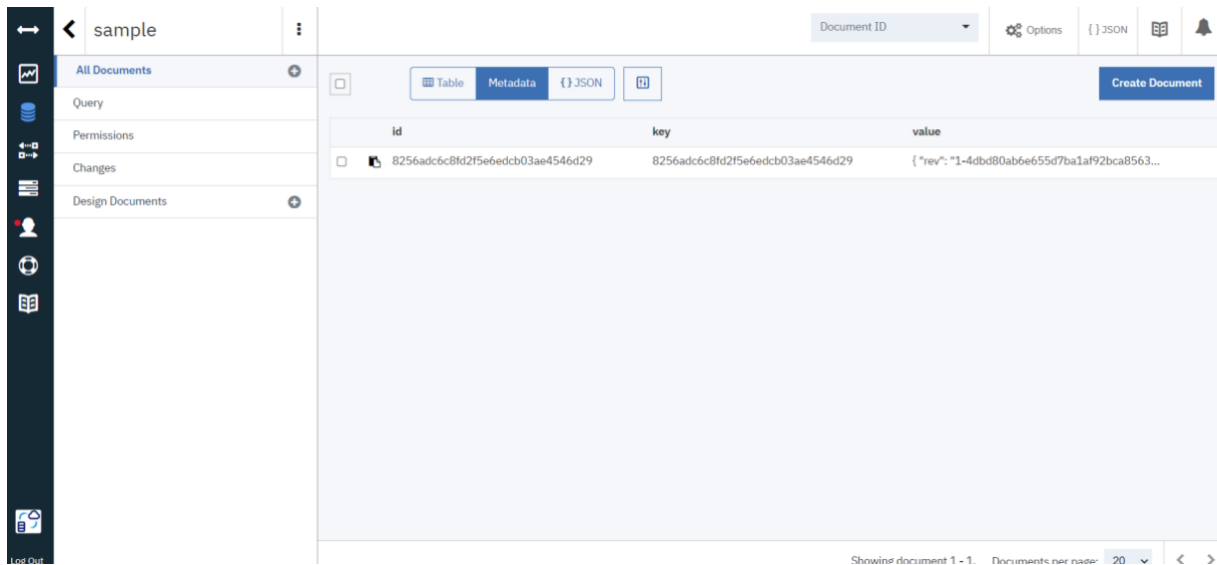
The background shows a table with columns 'Name', 'Size', '# of Docs', and 'Partitioned'. The status bar at the bottom indicates 'Showing 1-0 of 0 databa'.

- Create the document with no JSON Error.



## STEP 5:

- After creating the document go to IBM Cloud Document.



- Pip3 install IBM Cloudant

The screenshot displays the IBM Cloud API Docs for Cloudant. The top navigation bar includes the IBM logo, 'Cloud', and various dropdown menus for Products, Solutions, Pricing, Docs, Support, and Explore more. A search icon, user profile icon, and 'Console' link are on the right.

The left sidebar shows the 'Cloudant' section with a list of topics: Overview, Introduction (selected), Endpoint URLs, Authentication, Auditing, Event tracking, Error handling, Additional headers, Rate limits, Related APIs, and Logging. Below these are 'Methods' including Server, Databases, and Documents.

The main content area is titled 'IBM Cloud API Docs / Cloudant' and shows the 'Introduction' section, last updated on 2022-10-24. It describes IBM® Cloudant® as a document-oriented database as a service (DBaaS) and provides links to a 'Getting started tutorial' and 'API overview documentation, tutorials, and guides'. Below this is the 'Endpoint URLs' section, which explains that the IBM Cloudant API uses an instance-specific endpoint URL and lists four steps to find it.

On the right, there is a code editor with tabs for Curl, Java, Node, Python (selected), and Go. The Python tab shows the installation command: `pip3 install ibmcloudant`. A note states: 'The code examples on this tab use the IBM Cloudant SDK for Python.' Below the code is a 'GitHub' link: <https://github.com/ibm/cloudant-python-sdk>. A 'Feedback' button is visible on the right side of the code editor.