

## CREATION AND CONFIGURATION OF IBM CLOUD SERVICES

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Project name	Hazardous area monitoring for industrial power plants using IOT

### Creation of Database in Cloudant DB:

The screenshot shows the IBM Cloud console interface. The top navigation bar includes the IBM Cloud logo, a search bar, and links to Catalog, Manage, and the user's account (A Bhavana's Account). The main content area displays the details for a resource named 'node-red-qtxps-2022--cloudant-1667902073589'. The 'Overview' tab is selected, showing deployment details such as CRN, Location (Frankfurt), External endpoint, and Authentication methods. A 'Launch Dashboard' button is visible in the top right corner of the details panel.

The screenshot shows the Cloudant Databases console. The top navigation bar includes the 'Databases' title, a 'Database name' dropdown, and buttons for 'Create Database', 'JSON', and a notification bell. The main content area displays a table titled 'Your Databases' with the following columns: Name, Size, # of Docs, Partitioned, and Actions. The table contains one entry named 'nodered' with a size of 16.8 KB, 4 documents, and is not partitioned. The bottom of the page shows pagination information: 'Showing 1-1 of 1 databases. Databases per page 20'.

Name	Size	# of Docs	Partitioned	Actions
nodered	16.8 KB	4	No	[Icons]

sample > New Document

Create Document

Cancel

1

2

3

4

"\_id": "94c9086d7dc5f4a1c7a3b7e3cc0ccedb",

"new": "abcd"

Log Out

sample

Document ID

Options

JSON

All Documents

Query

Permissions

Changes

Design Documents

Table

Metadata

JSON

Document saved successfully.

	id	key	value
<input type="checkbox"/>	94c9086d7dc5f4a1c7a3b7e3cc0ccedb	94c9086d7dc5f4a1c7a3b7e3cc0ccedb	{ "rev": "1-4dbd80ab6e655d7ba1af92bca8563..." }

Showing document 1 - 1. Documents per page: 20

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Introduction

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IBM® Cloudant® for IBM Cloud® is a document-oriented database as a service (DBaaS). It stores data as documents in JSON format. It is built with scalability, high availability, and durability in mind. It comes with a wide variety of indexing options that include MapReduce, IBM Cloudant Query, full-text indexing, and geospatial indexing. The replication capabilities make it easy to keep data in sync between database clusters, desktop PCs, and mobile devices.

Detailed documentation is also available such as a [Getting started tutorial](#), [API overview](#), [documentation, tutorials, and guides](#).

This documentation describes the Python SDK and examples. To see usage information and examples in your preferred SDK, select the language tab in the right pane.

Endpoint URLs

The IBM Cloudant API uses an instance-specific endpoint URL for all regions. You can find your external endpoint by following these steps:

1. Go to the IBM Cloud dashboard and open an instance.
2. Click the Service credentials tab.
3. Click the chevron next to the service credentials to open the credentials pane.
4. Copy the value from the `host` field and prefix it with the `https://` protocol. This value is the external endpoint.

For more information, see the [Locating your service credentials](#) tutorial.

Curl

Java

Node

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The code examples on this tab use the IBM Cloudant SDK for Python.

Installation

```
pip3 install ibmcloudant
```

GitHub

<https://github.com/ibm/cloudant-python-sdk>

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CLOUDANT\_APIKEY).

☒ **Tip:** It is not necessary to use a .env file. These properties can be set by using environment variables with the same name in the environment where the application is run.

Curl

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SDK managing the IAM token. Replace {apikey} and {url}.

```
{service-name}_URL={url}
{service-name}_APIKEY={apikey}

from ibmcloudant.cloudant_v1 import CloudantV1

service = CloudantV1.new_instance(service_name="{service-name}")
```

SDK managing session cookie.

```
{service-name}_AUTH_TYPE=COUCHDB_SESSION
{service-name}_URL={url}
{service-name}_USERNAME={username}
{service-name}_PASSWORD={password}

from ibmcloudant.cloudant_v1 import CloudantV1

service = CloudantV1.new_instance(service_name="{service-name}")
```

Basic authentication.

```
{service-name}_AUTH_TYPE=BASIC
{service-name}_URL={url}
```

Feedback

