

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 (NITHYASRI A's Account). The main content area displays the configuration for a specific Cloudant database resource. The resource name is 'node-red-qtxps-2022--cloudant-1667902073589', and it is in an 'Active' state. The left sidebar shows the 'Manage' tab selected, with sub-options for Service credentials, Plan, and Connections. The main panel shows the 'Overview' tab with deployment details:

- CRN:** crn:v1:bluemix:public:cloudantnosqldb:eu-de:a/2417ee2180b041beb6930cdc689217bc:d7efb4b8-b204-4628-b7ac-d5dcc3900fb0::
- Location:** Frankfurt
- External endpoint:** <https://648887ab-7747-40eb-9a59-1ddd612dc191-bluemix.cloudant.com>
- External endpoint (preferred):** <https://648887ab-7747-40eb-9a59-1ddd612dc191-bluemix.cloudantnosqldb.appdomain.cloud>
- Authentication methods:** IBM Cloud IAM, Cloudant credentials, and a button to 'Migrate to IAM Only'.
- Activity Tracker event types:** A dropdown menu set to 'Management' with a 'Save' button.
- Disk encryption:** Yes, Automatically generated disk encryption key.

The screenshot shows the 'Databases' management interface in the Cloudant console. It features a sidebar with navigation icons and a main area with a table of databases. At the top right, there is a 'Create Database' button and a 'JSON' icon. The table has the following columns: Name, Size, # of Docs, Partitioned, and Actions.

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

At the bottom of the interface, it indicates 'Showing 1-1 of 1 databases.' and 'Databases per page 20'.

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

IBM

Cloud

Products

Solutions

Pricing

Docs

Support

Explore more

Search

Profile

Console

Cloudant

Overview

Introduction

Endpoint URLs

Authentication

Auditing

Event tracking

Error handling

Additional headers

Rate limits

Related APIs

Logging

Methods

Server

Databases

Documents

IBM Cloud API Docs / Cloudant

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

Python

Go

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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IBM

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Products

Solutions

Pricing

Docs

Support

Explore more

Search

Profile

Console

Cloudant

Overview

Introduction

Endpoint URLs

Authentication

Security scheme

Authentication with external configuration

Programmatic authentication

Auditing

Event tracking

Error handling

Additional headers

Rate limits

Related APIs

Logging

Methods

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.

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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