

## CLOUDANT DATABASE:

The screenshot displays the IBM Cloud console interface for a Cloudant database instance named 'Cloudant-5f'. The instance is in an 'Active' state. The 'Overview' tab is selected, showing deployment details such as the CRN, Location (Sydney), External endpoint, and Authentication methods (IBM Cloud IAM). The 'Activity Tracker' shows 'Management & Data' events. The 'Disk encryption' status is 'Yes' with an automatically generated key. The interface includes a sidebar with 'Manage' options (Service credentials, Plan, Connections) and a 'Launch Dashboard' button. The bottom of the screen shows a Windows taskbar with various application icons and system information (28°C Haze, 11:32 17-11-2022).

Resource list /

### Cloudant-5f Active [Add tags](#)

[Details](#) [Actions...](#)

**Manage** **Overview** Capacity Docs

[Launch Dashboard](#)

Service credentials

Plan

Connections

#### Deployment details

CRN	cm.v1:bluemix:public:cloudantnosqldb:au-syd:a/7c9ea671c1514be29674e20d02349f05:b16166ac-4ac3-4bea-9f1b-b6303e91a439::
Location	Sydney
External endpoint	<a href="https://1d6deb22-3027-4a17-8c15-d671c39e3cce-bluemix.cloudant.com">https://1d6deb22-3027-4a17-8c15-d671c39e3cce-bluemix.cloudant.com</a>
External endpoint (preferred)	<a href="https://1d6deb22-3027-4a17-8c15-d671c39e3cce-bluemix.cloudantnosqldb.appdomain.cloud">https://1d6deb22-3027-4a17-8c15-d671c39e3cce-bluemix.cloudantnosqldb.appdomain.cloud</a>
Authentication methods	<a href="#">IBM Cloud IAM</a>

Activity Tracker event types <sup>1</sup> Management & Data Save

Disk encryption Yes. Automatically generated disk encryption key.

Waiting for 684d0d46.akstatio...

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1d6deb22-3027-4a17-8c15-d671c39e3cce-bluemix.cloudant.com/dashboard.html#database/sample/\_all\_docs

sample

Document ID Options {} JSON

All Documents Query Permissions Changes Design Documents

Table Metadata {} JSON Create Document

id	key	value
1113422b5255c292e29241dbf63221f2	1113422b5255c292e29241dbf63221f2	{ "rev": "1-4dbd80ab6e655d7ba1af92bca8563..." }

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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

CurlJavaNodePythonGo

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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cloud.ibm.com/apidocs/cloudant?code=python#programmatic-authentication

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overview

Introduction

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Authentication

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## Programmatic authentication

In this scenario, authentication is configured by constructing an authenticator instance, supplying the configuration attributes programmatically, and then passing this instance to a client constructor.

☒ **Tip:** If you are using the IBM Cloud App Service, IBM Cloud® Continuous Delivery or IBM Cloud starter kits then you can programmatically configure your SDK using the `IBMCLOUDENV` tool to obtain the configuration information from bound services. The `IBMCLOUDENV` tool is available for [Go](#), [Java&trade;\(Spring\)](#), [Node.js](#), and [Python](#).

CurlJavaNodePythonGo

```
from ibmcloudant.cloudant_v1 import CloudantV1

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

SDK managing the IAM token.

from ibmcloudant.cloudant_v1 import CloudantV1
from ibm_cloud_sdk_core.authenticators import IAMAuthenticator

authenticator = IAMAuthenticator('{apikey}')

service = CloudantV1(authenticator=authenticator)

service.set_service_url('{url}')

SDK managing session cookie.

from ibmcloudant.cloudant_v1 import CloudantV1
from ibmcloudant import CouchDbSessionAuthenticator

authenticator = CouchDbSessionAuthenticator('{url}/{sessionid}')
```

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