

# IoT BASED SMART CROP PROTECTION SYSTEM FOR AGRICULTURE

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## Create A 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 (Padma Leka T's Account). The main content area displays the details for a resource named 'node-red-xxgyv-2022--cloudant-1668073221151'. The 'Overview' tab is selected, showing deployment details such as CRN, Location (Sydney), External endpoint, and Authentication methods. A 'Launch Dashboard' button is visible in the top right corner of the details section.

Resource list / node-red-xxgyv-2022--cloudant-1668073221151 Active Add tags Details Actions...

**Manage** Overview Capacity Docs Launch Dashboard

Service credentials  
Plan  
Connections

**Deployment details**

CRN crn:v1:bluemix:public:cloudantnosqldb:au-syd:a/7a84406f933d47759138725c69babb6:8fb8505e-709e-4f6-8f8b-9703879a83b7::

Location Sydney

External endpoint <https://7680cec2-9f20-4fae-8c35-23f223910873-bluemix.cloudant.com>

External endpoint (preferred) <https://7680cec2-9f20-4fae-8c35-23f223910873-bluemix.cloudantnosqldb.appdomain.cloud>

Authentication methods [IBM Cloud IAM](#) and [Cloudant credentials](#) Migrate to IAM Only

Activity Tracker event types Management Save

The screenshot shows the Cloudant dashboard interface. The top navigation bar includes the Cloudant logo, a search bar, and links to Create Database, JSON, and a notification bell. The main content area displays a list of databases under the heading 'Your Databases'. The list includes columns for Name, Size, # of Docs, Partitioned, and Actions. Two databases are listed: 'noderedxxgyv20221110' and 'sample'.

Databases Database name Create Database { } JSON Notification

Your Databases

Name	Size	# of Docs	Partitioned	Actions
noderedxxgyv20221110	17.9 KB	4	No	<span>Refresh</span> <span>Lock</span> <span>Delete</span>
sample	14 bytes	1	No	<span>Refresh</span> <span>Lock</span> <span>Delete</span>

Showing 1-2 of 2 databases. Databases per page 20 < 1 >

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

## 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

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}')
```

Feedback

SDK managing session cookie.

```
from ibmcloudant.cloudant_v1 import CloudantV1
from ibmcloudant import CouchDbSessionAuthenticator

authenticator = CouchDbSessionAuthenticator('{username}', '{password}')

service = CloudantV1(authenticator=authenticator)

service.set_service_url('{url}')
```

Type here to search

05:05 PM 17-11-2022