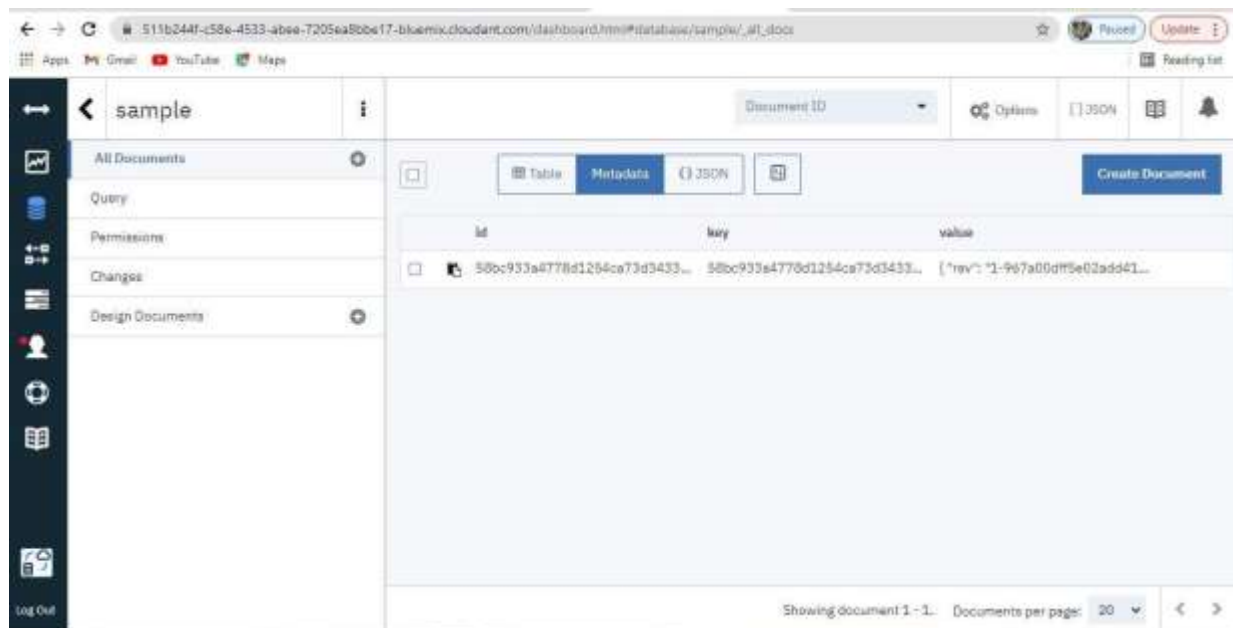
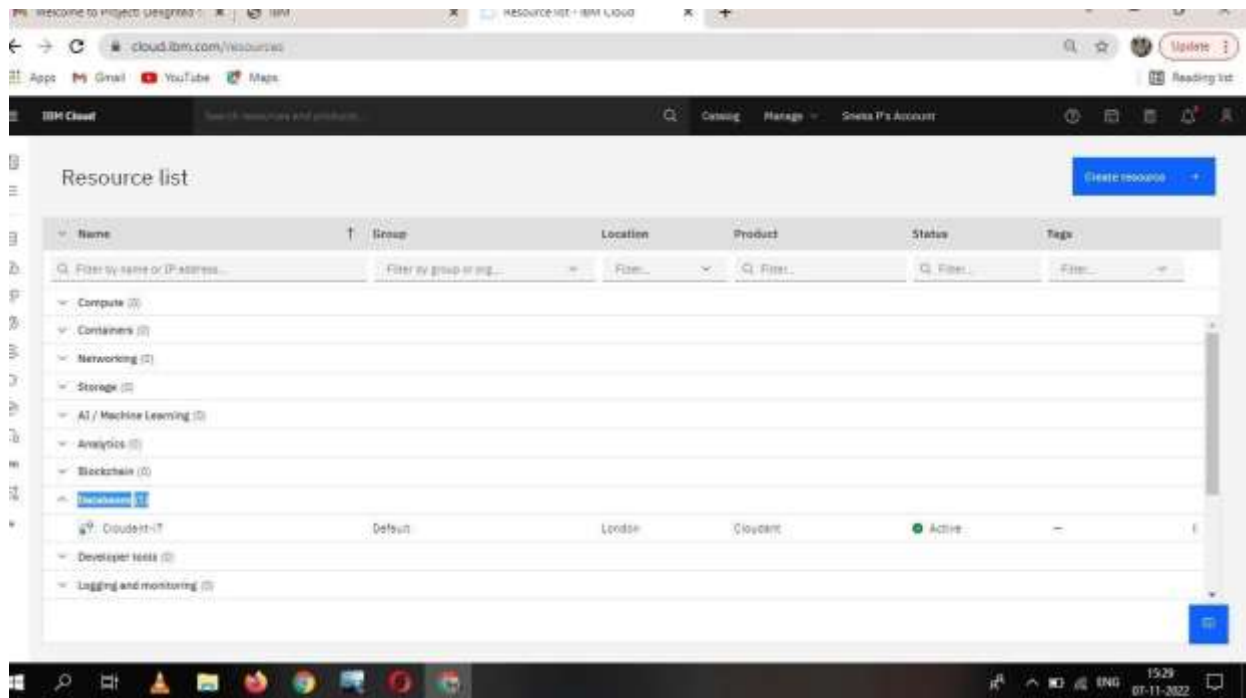


TEAM ID	PNT2022TMID50380
PROJECT	IOT Based Smart Crop Protection System For Agriculture

## CREATE A DATABASE IN CLOUDANT DB



cloud.ibm.com/apidocs/cloudant/code/python#security-scheme

IBM Cloud API Docs / Cloudant

## Introduction

Last updated: 2022-10-14

IBM Cloudant<sup>®</sup> for IBM Cloud<sup>®</sup> is a document-oriented database as a service (DBaaS). It stores data as documents in JSON format. It is built with availability, 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](#)<sup>[1]</sup>, [API Overview documentation](#), [tutorial](#), and [API doc](#)<sup>[2]</sup>.

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 checkbox next to the service credentials to open the credentials pane.
4. Copy the value from the `url` field and prefix it with the `https://` protocol. This value is the external endpoint.

For more information, see the [Locating your service credentials](#)<sup>[3]</sup> tutorial.

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>

cloud.ibm.com/apidocs/cloudant/code/python#programmatic-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<sup>®</sup> Continuous Delivery or IBM Cloud starter kits then you can programmatically configure your SDK using the `ibmcloud-cli` tool to obtain the configuration information from bound services. The `ibmcloud-cli` tool is available for [Linux](#)<sup>[1]</sup>, [Windows](#)<sup>[2]</sup>, [MacOS](#)<sup>[3]</sup>, and [Python](#)<sup>[4]</sup>.

### SDK managing API keys

```
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.cloudant_core.authenticators import CookieBasedAuthenticator

authenticator = CookieBasedAuthenticator('sessionid', 'apikey')
service = CloudantV1(authenticator=authenticator)
service.set_service_url('url')
```

### Basic authentication

```
from ibmcloudant.cloudant_v1 import CloudantV1
from ibm_cloud_sdk_core.authenticators import BasicAuthenticator

authenticator = BasicAuthenticator('username', 'password')
```