

SPRINT-4

The screenshot displays the IBM Cloud Developer console interface. The browser's address bar shows the URL: `cloud.ibm.com/developer/appservice/apps/e9ec1361-da36-4f07-adb9-f870848a85fc`. The page title is "Node RED VTHBD 2022-11-18".

Details Section:

- App URL:** You must deploy your app first
- Source:** Download code (with a download icon)
- Resource group:** Default
- Deployment target:** You must deploy your app first
- Created:** 11/18/2022

Services Section:

- Cloudant:** Includes links for "Open dashboard", "Documentation", and "API reference". A "Credentials" dropdown is also visible.

Deployment Automation Section:

- Configure Continuous Delivery:** A message states: "Continuous Delivery is not enabled for this app. Enable Continuous Delivery to automate builds, tests, and deployments through Delivery Pipeline, GitLab, and more." A "Deploy your app" button is present.

The bottom of the image shows a Windows taskbar with various application icons and a system tray displaying the date and time as 3:16 PM on 11/18/2022.

IBM Cloudant Dashboard - crop_protection database

Document ID: [Dropdown]

Options: [Settings Icon] [JSON Icon] [Bookmarks Icon] [Notifications Icon]

Create Document

id	key	value
3429cf185379542244e37d51001d0...	3429cf185379542244e37d51001d0...	{"rev": "1-f81e7c8c9940630abe733..."}

Showing document 1 - 1. Documents per page: 20

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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](#).

Authenticating with an API key

```
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}')
```

Authenticating with a session cookie

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

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

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IBM Cloud Object Storage interface showing the bucket 'crop123'.

Notification: A bucket created successfully! The bucket crop123 has been created and is now available to add objects.


Navigation: Storage / Cloud Object Storage-sk /

Tabs: Objects (selected), Configuration, Permissions

Message: If you're seeing more usage than expected, versions count towards your usage or you may have incomplete uploads [Learn more](#)

Search: Prefix filter

Buttons: Upload

<input type="checkbox"/>	Object name	Archived ⓘ	Size	Last modified
 Objects Drag and drop files (objects) to upload. An object is your data in fixed form. Drag and drop files (objects) here or click to upload				

Taskbar: Type here to search, 30°C, 1:58 PM, 11/18/2022