

Hands-on Lab: Create an instance of IBM Cloudant



Estimated time needed: **10** minutes

Objectives

In this lab you will:

- Create an instance of IBM Cloudant
- Create Cloudant service credentials, which provide you with access to modify the instance
- Retrieve your API key, username, password and URL for future use

Exercise 1: Log in to IBM Cloud

You need an IBM Cloud account to work with IBM Cloudant.

If you do not have an account, you can sign up for one using the instructions [here](#).

Step 1: Navigate to cloud.ibm.com.

Step 2: Login using your IBM Cloud credentials.

You will land on the the Cloud Dashboard page.

Exercise 2: Create an IBM Cloudant instance

Step 1: Click on cloud.ibm.com/catalog/services/cloudant to create a Cloudant instance.

Or you can alternatively click on Create Resource, search for Cloudant on the Dashboard page.

You will be taken to the Cloudant instance creation page.

The screenshot shows the IBM Cloudant instance creation page. At the top, there's a navigation bar with 'IBM Cloud' and a search bar. Below that, the instance name 'mycloudant' is shown with an 'Active' status and a 'Add tags' button. The left sidebar has tabs for 'Manage' (which is active), 'Service credentials', and 'Plan'. The main panel is titled 'Deployment details' and contains the following fields:

CRN	crn:v1:bluemix:public:cloudantnosqldb:eu-gb:a/9ff7e8c5d25d4ac7aa5dcdf286db5a8db9::
Location	London
External Endpoint	https://4646e655-6aee-42d8-8b93-d2bde6e9a6ca-bluemix.cloudant.com
External Endpoint (preferred)	https://4646e655-6aee-42d8-8b93-d2bde6e9a6ca-bluemix.cloudantnosqldb.a
Authentication methods	IBM Cloud IAM and Cloudant credentials
Activity Tracker event types	Management
Disk encryption	Yes. Automatically generated disk encryption key.

At the bottom, there's a 'Capacity details' section and a 'Save' button.

Step 2: Select the region under the “Available regions”.

It is OK to go with the default option, if you cannot figure out which region to choose.

Step 3: Scroll down to configure Cloudant instance.

The screenshot shows the 'Configure Cloudant instance' page on the IBM Cloud interface. The page includes fields for 'Instance name' (set to 'mycloudant'), 'Resource group' (set to 'Default'), 'Tags' (with an example 'env:dev, version-1'), 'Authentication method' (set to 'IAM and legacy credentials'), and a 'Plan' section comparing 'Lite', 'Standard', and 'Standard on Transaction Engine' plans. Below the plan section is a 'Capacity' summary table. Red numbers 1 through 4 are overlaid on the page to indicate specific steps:

- 1**: Points to the 'Instance name' field.
- 2**: Points to the 'Tags' input field.
- 3**: Points to the 'Authentication method' dropdown.
- 4**: Points to the 'Standard on Transaction Engine' plan description.

Plan	Description	Starting Price
Lite	Full functionality for development and evaluation with a set capacity. Only one Lite plan instance per account. Free - Only in multi-tenant	
Standard	Granular control over provisioned throughput capacity allocated. Billing prorated hourly. Starting at \$75.00/month	
Standard on Transaction Engine	Uses IBM's next generation data layer architecture which provides lower costs, no conflicts in-region, and scalable and consistent querying. Billing prorated hourly. Starting at \$22.00/month	

Capacity	Value
20	Reads per second
10	Writes per second
5	Queries per second
1	GB Storage included

Step 4: Set your instance name to **mycloudant** or anything else that you prefer.

Step 5: Authentication Method is a critical setting. Select “**IAM and legacy Credentials**” as your Authentication Method. If you choose any other Authentication Method, some labs will not work.

Step 6: Select the **Lite** plan.

Step 7: Click on **Create**

You should see a screen like this

Configure Cloudant instance

Instance name

mycloudant

Resource group

Default

Tags

Examples: env:dev, version-1

Authentication method

IAM and legacy credentials

Plan

Lite

Full functionality for development and evaluation with a set capacity. Only one Lite plan instance per account.

Free - Only in multi-tenant

Standard

Granular capacity provisioning allocated. Billing prorated hourly.

Starting at \$75.00/month

Service created

The service might take time to provision. You are being redirected to the resource list now.

Compare Standard vs. Standard on Transaction Engine

Capacity

20 Reads per second

10 Writes per second

5 Queries per second

1 GB Storage included

Your Cloudant service will be created and you will be redirected to the Resource list page.

Step 8: If you are not redirected, you can click on this link cloud.ibm.com/resources?groups=resource-instance

You may see a screen like this, indicating the Provision is in progress.

[Resource list](#) /

Cloudant-mp

Active[Add tags](#) **Manage**[Service credentials](#)[Plan](#)**Overview**[Capacity](#)[Docs](#)**Deployment details****CRN**crn:v1:bluemix:public:cloudantnosqldb:us-soutl
1::**Location**

Dallas

External endpoint<https://cb53f796-5328-412e-95b7-96338aa99>**External endpoint (preferred)**<https://cb53f796-5328-412e-95b7-96338aa99>**Authentication methods**

IBM Cloud IAM and Cloudant credentials

Activity Tracker event types

Management

[Save](#)**Disk encryption**

Yes. Automatically generated disk encryption ke

Step 9: Wait till the status turns 'Active' and select the displayed instance name.

Name	Group	Location
<input type="text"/> Filter by name or IP address...	<input type="text"/> Filter by group or org...	<input type="button"/> Filter...
Storage (1+)		
Converged infrastructure (0)		
Enterprise applications (0)		
AI / Machine Learning (0)		
Analytics (0)		
Blockchain (0)		
Databases (1)		
Cloudant-si 	Default	Sydney
Developer tools (0)		
Logging and monitoring (0)		
Migration (0)		
Integration (0+)		
Internet of Things (0)		

The Cloudant instance page is displayed.

You have successfully created the Cloudant instance.

Exercise 3 - Create Cloudant Service credentials

Step 1: On the Cloudant instance page, click on **Service Credentials**

Resource list /

mycloudant

Active Add tags

Manage

Service credentials

Plan

Overview

Dashboard

Capacity

Docs

**Deployment details****CRN** crn:v1:bluemix:public:cloudantnosqldb:eu-gb:a/9ff7e8c5d25d4ac7aa5dcdf286db5a8db9::**Location** London**External Endpoint** <https://4646e655-6aee-42d8-8b93-d2bde6e9a6ca-bluemix.cloudant.com> **External Endpoint (preferred)** <https://4646e655-6aee-42d8-8b93-d2bde6e9a6ca-bluemix.cloudantnosqldb.a> **Authentication methods** [IBM Cloud IAM](#) and [Cloudant credentials](#) **Activity Tracker event types**

Management



Save

Disk encryption

Yes. Automatically generated disk encryption key.

Capacity details

Step 2: Click on New Credential.

Resource list /

mycloudant

Active Add tags 

Manage

Service credentials

Plan

Service credentials

You can generate a new set of credentials for cases where you want to manually connect an app or external consumer to an IBM Cloud service. [Learn more](#)

Search credentials...

Key name

Date created



No service credentials

Credentials are provided in JSON format. The JSON snippet lists credentials, such as the API key and secret, as well as connection information for the service.

Step 3: Create credential pop up appears. Accept the default values for Name and Role and click on Add

IBM Cloud Search resources and offerings... Catalog Docs Support Manage

Resource list / mycloudant Active Add tags

Manage Service credentials

Service credentials You can generate a new set of credentials for cases where you want to manually connect an app or external consumer to an IBM Cloud service. [Learn more](#)

Plan

Create credential

Name: Service credentials-1

Role: Manager

Advanced options

No s

Creden
snippe
secret
service.

Cancel Add

A screenshot of the IBM Cloud interface showing the 'Service credentials' creation dialog. The dialog has fields for 'Name' (set to 'Service credentials-1') and 'Role' (set to 'Manager'). At the bottom right of the dialog is a blue 'Add' button. A blue arrow points from this 'Add' button to the 'Add' button located at the bottom right of the main page area, which contains the text 'Step 4: Your Cloudant Service credentials will be created. Click on the chevron to view the credentials. DO NOT attempt to use the credentials shown here. These are expired credentials.'

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DO NOT attempt to use the credentials shown here. These are expired credentials.

Resource list /

mycloudant

 Active Add tags

Manage

Service credentials

Plan

Service credentials

You can generate a new set of credentials for cases where you want to manually connect an app or external consumer to an IBM Cloud service. [Learn more](#)

Search credentials...		
	Key name	Date created
	<input type="checkbox"/> Service credentials-1	2021-04-12 1:26 PM



Step 5: You will be using the username, password and url in the next labs.

Resource list /

mycloudant

Active Add tags

Manage

Service credentials

You can generate a new set of credentials for cases where you want to manually connect an app or external consumer to an IBM Cloud service. [Learn more](#)

Plan

 Search credentials...

Key name	Date created
Service credentials-1	2021-04-12 1:26 PM

```
{"apikey": "M5_LAn8A0d13NK2Y7HcZ-X6f1Sfx2o-1ezsyUyP2XyQz",  
"host": "4646e655-6aae-42d8-8b93-d2bde6e9a6ca-bluemix.cloudantnosqldb.appdomain.clo  
"iam_apikey_description": "Auto-generated for key 1f757674-c0fa-4064-8f2c-6be47754d  
"iam_apikey_name": "Service credentials-1",  
"iam_role_crn": "crn:v1:bluemix:public:iam::::serviceRole:Manager",  
"iam_serviceid_crn": "crn:v1:bluemix:public:iam-identity:a/9ff7e8c5d25d4ac7aa5dcdf  
addaa-8111-4cb7-bbd4-3a6982702639",  
"password": "6b3dc2399426437b2397e08ac9cf0184",  
"port": 443,  
"url": "https://apikey-v2-1ktn8d6fuuuo6kj0z145fris5ccx24fhmirsku7o3q7bh:6b3dc2399426  
-42d8-8b93-d2bde6e9a6ca-bluemix.cloudantnosqldb.appdomain.cloud",  
"username": "apikey-v2-1ktn8d6fuuuo6kj0z145fris5ccx24fhmirsku7o3q7bh"  
}
```

You have successfully created a Cloudant instance and Service credentials for your instance.

Note: If you do not see the password field in your credentials, it is because in Exercise 2, Step 5 you have not selected “IAM and legacy credentials”. You can fix it by deleting your current Cloudant instance and following this lab from the beginning to create a new instance of Cloudant.

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