

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 Cloud console interface. At the top, there's a navigation bar with 'IBM Cloud', a search bar, and links for 'Catalog', 'Docs', 'Support', and 'Manage'. Below this, the 'Resource list' section shows 'mycloudant' with a green 'Active' status and an 'Add tags' link. The left-hand navigation menu is expanded, showing 'Manage' as the selected section, with sub-items 'Service credentials' and 'Plan'. A blue arrow points to 'Service credentials'. The main content area displays the 'Overview' tab for the 'mycloudant' instance. It includes a 'Deployment details' section with fields for 'CRN', 'Location', 'External Endpoint', 'External Endpoint (preferred)', and 'Authentication methods'. Below this is an 'Activity Tracker event types' section with a dropdown menu set to 'Management' and a 'Save' button. At the bottom, there's a 'Disk encryption' section indicating 'Yes. Automatically generated disk encryption key.'.

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: 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.

IBM Cloud

Search resources and offerings...

Q

Catalog

Docs

Support

Manage

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 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

Compare Standard vs. Standard on Transaction Engine

Capacity

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

IBM Cloud

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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 with a set capacity. Only one Standard plan instance per account. Billing prorated hourly.

Starting at \$75.00/month

Enterprise

Over 10TB of 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

[Compare Standard vs. Standard on Transaction Engine](#)

Capacity

20 Reads per second

10 Writes per second

5 Queries per second

1 GB Storage included

Service created

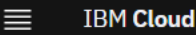
The service might take time to provision. You are being redirected to the resource list now.

X

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.

Search resources and products...

[Resource list](#) /

Cloudant-mp

 Active [Add tags](#) 

Manage

Service credentials





Plan

Overview

Capacity

Docs

Deployment details

CRN	crn:v1:bluemix:public:cloudantnosqldb:us-soutl1::
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 	<div>Management </div> <div>Save</div>
Disk encryption	Yes. Automatically generated disk encryption ke

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

Resource list

Name	Group	Location
<input type="text" value="Filter by name or IP address..."/>	<input type="text" value="Filter by group or org..."/>	<input type="text" value="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 screenshot shows the 'Resource list' interface. On the left is a sidebar with icons for different resource types. The main area displays a table with columns for Name, Group, and Location. Below the header are filter boxes for name/IP address, group/org, and location. The table lists several resource categories, each with a dropdown arrow and a count in parentheses. Under the 'Databases (1)' category, the 'Cloudant-si' resource is listed with the group 'Default' and location 'Sydney'. A prominent blue arrow points from the right towards the 'Cloudant-si' entry.

The Cloudant instance page is displayed.

You have successfully created the Cloudant instance.

Exercise 3 - Create Cloudant Service credentials

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

IBM Cloud

Search resources and offerings...

Q

Catalog

Docs

Support

Manage

Resource list / mycloudant

Active

Add tags

Manage

Overview

Dashboard

Capacity

Docs

Service credentials

Plan

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.

IBM Cloud

Search resources and offerings...

Q

Catalog

Docs

Support

Manage

Resource list /

mycloudant

Active

Add tags

Manage

Service credentials


Plan

Service credentials

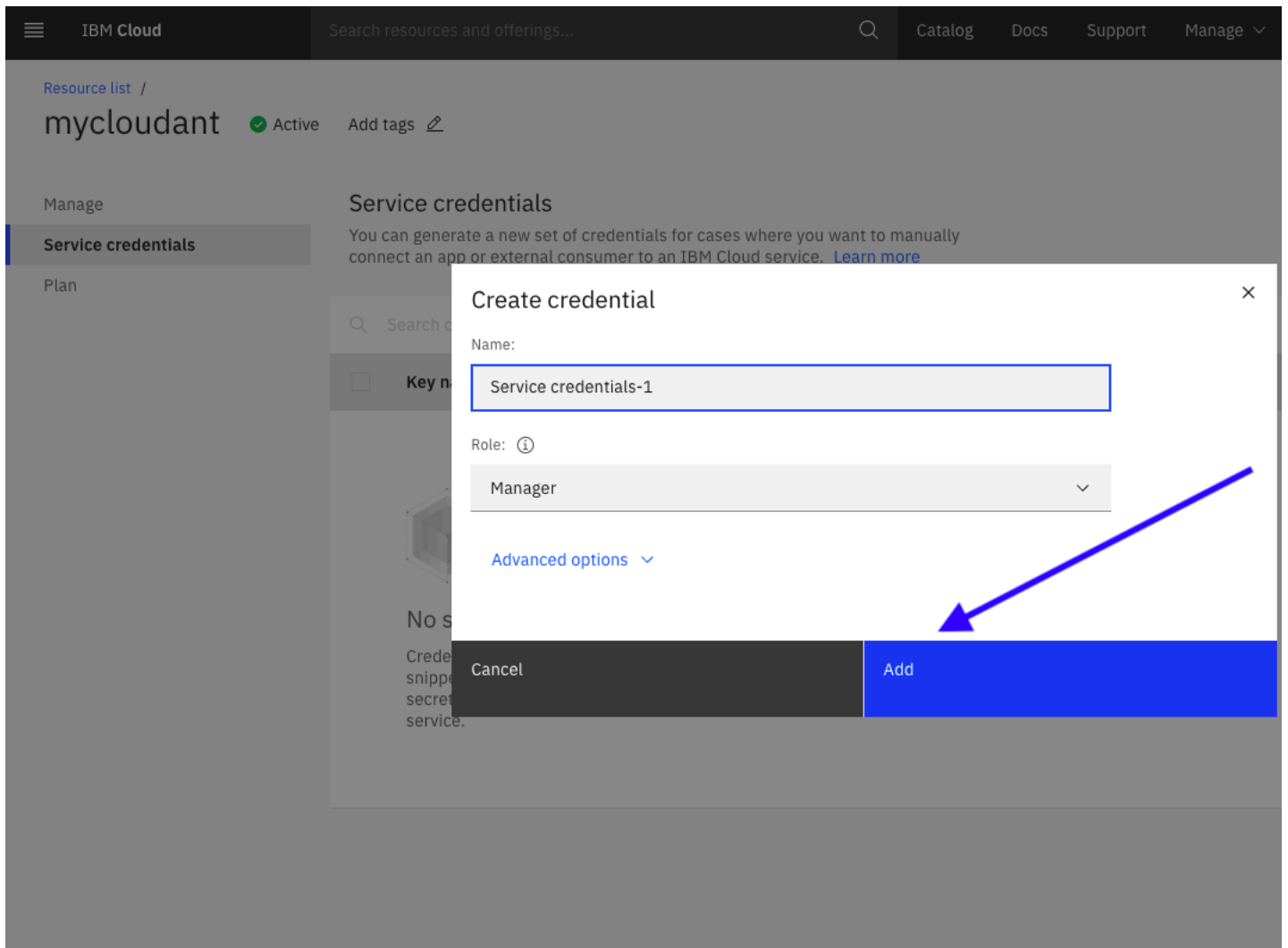
You can generate a new set of credentials for cases where you want to manually connect an app or external consumer to an IBM Cloud service. [Learn more](#)

Q

Search credentials...

	Key name	Date created
<div><div></div><div><div>No service credentials</div><div>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.</div></div></div>		

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



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.

IBM Cloud

Search resources and offerings...

Q

Catalog

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mycloudant

Active

Add tags

Manage

Service credentials

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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](#)

Q

Search credentials...

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

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

IBM Cloud

Search resources and offerings...

Q

Catalog

Docs

Support

Manage

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](#)

Q

Search credentials...

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

```
{  "apikey": "M5_LAn8A0d13NK2Y7HcZ-X6f1SfX2o-1ezsyUyP2XyQz",  "host": "4646e655-6aee-42d8-8b93-d2bde6e9a6ca-bluemix.cloudantnosqldb.appdomain.cloud",  "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/9ff7e8c5d25d4ac7aa5dcdfadddaa-8111-4cb7-bbd4-3a6982702639",  "password": "6b3dc2399426437b2397e08ac9cf0184",  "port": 443,  "url": "https://apikey-v2-1ktn8d6fuuo6kjoz145fris5ccx24fhmirsku7o3q7bh:6b3dc2399426-42d8-8b93-d2bde6e9a6ca-bluemix.cloudantnosqldb.appdomain.cloud",  "username": "apikey-v2-1ktn8d6fuuo6kjoz145fris5ccx24fhmirsku7o3q7bh"}
```

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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