

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.

IBM Cloud

Search resources and offerings...

Q

Catalog

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Support

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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/9ff7e8c5d25d4ac7aa5dcdf28618b4db5a8db9::

Location

London

External Endpoint

<https://4646e655-6aee-42d8-8b93-d2bde6e9a6ca-bluemix.cloudant.com>

External Endpoint (preferred)

<https://4646e655-6aee-42d8-8b93-d2bde6e9a6ca-bluemix.cloudantnosqldb.appdo>

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.

The screenshot shows the 'Configure Cloudant instance' page in the IBM Cloud console. It includes fields for 'Instance name' (set to 'mycloudant'), 'Resource group' (set to 'Default'), 'Tags' (with examples 'env:dev, version-1'), and 'Authentication method' (set to 'IAM and legacy credentials'). Below these are three plan options: 'Lite' (selected with a checkmark), 'Standard', and 'Standard on Transaction Engine'. The 'Lite' plan is described as 'Full functionality for development and evaluation with a set capacity. Only one Lite plan instance per account.' and is 'Free - Only in multi-tenant'. The 'Standard' plan offers 'Granular control over provisioned throughput capacity allocated. Billing prorated hourly' and starts at '\$75.00/month'. The 'Standard on Transaction Engine' plan 'Uses IBM's next generation data layer architecture which provides lower costs, no conflicts in-region, and scalable and consistent querying. Billing prorated hourly' and starts at '\$22.00/month'. At the bottom, capacity specifications are listed: '20 Reads per second', '10 Writes per second', '5 Queries per second', and '1 GB Storage included'. Blue arrows with red numbers point to specific elements: 1 points to the 'Instance name' field, 2 points to the 'Tags' field, 3 points to the 'Lite' plan, and 4 points to the 'Create' button on the right side of the page.

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

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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Resources

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 provisioning and capacity allocated. Billing prorated hourly.

Starting at \$75.00/month

Standard on Transaction Engine

Uses the next generation state 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.

IBM Cloud

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-south:a/1::

Location

Dallas

External endpoint

<https://cb53f796-5328-412e-95b7-96338aa99511>

External endpoint (preferred)

<https://cb53f796-5328-412e-95b7-96338aa99511>

Authentication methods

[IBM Cloud IAM](#) and [Cloudant credentials](#)

Activity Tracker event types ⓘ

Management

Save

Disk encryption

Yes. Automatically generated disk encryption key.

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

IBM Cloud

Search resources and offerings...

Q

Catalog

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[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/9ff7e8c5d25d4ac7aa5dcdf28618b4db5a8db9::

Location

London

External Endpoint

<https://4646e655-6aee-42d8-8b93-d2bde6e9a6ca-bluemix.cloudant.com>

External Endpoint (preferred)

<https://4646e655-6aee-42d8-8b93-d2bde6e9a6ca-bluemix.cloudantnosqldb.appdo>

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...

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[Resource list](#) /

mycloudant

Active

Add tags

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Service credentials


Plan

Service credentials

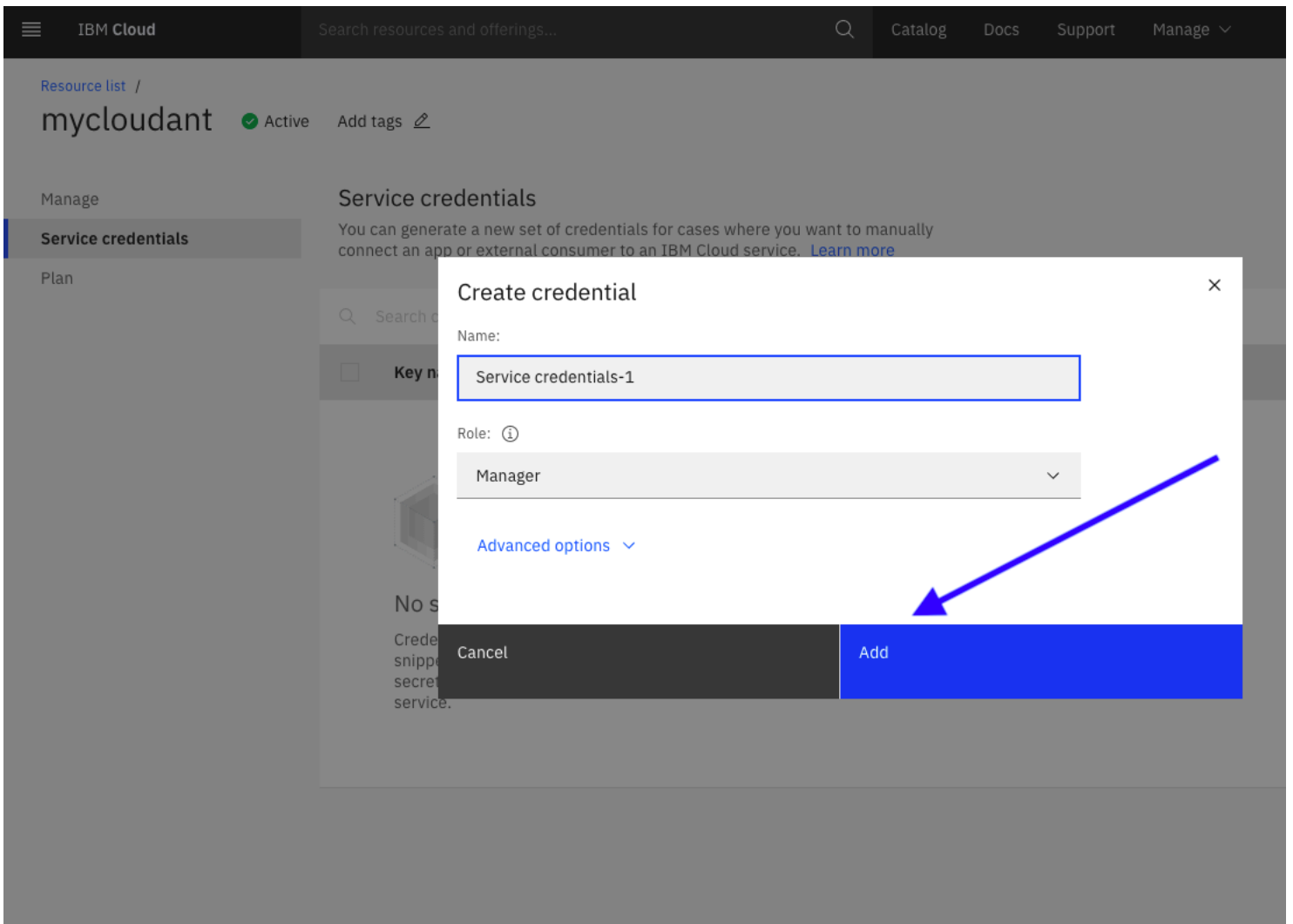
You can generate a new set of credentials for cases where you want to manually connect an app or external consumer to an IBM Cloud service. [Learn more](#)

Q

Search credentials...

<input type="checkbox"/>	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

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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
	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...

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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

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-6be47754d093",  "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/9ff7e8c5d25d4ac7aa5dcdcf2861ad8aa-8111-4cb7-bbd4-3a6982702639",  "password": "6b3dc2399426437b2397e08ac9cf0184",  "port": 443,  "url": "https://apikey-v2-1ktn8d6fuuo6kjoz145fris5ccx24fhmirsku7o3q7bh:6b3dc2399426437b-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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