

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 displays the IBM Cloudant instance creation interface. The top navigation bar includes the IBM Cloud logo, a search bar, and links to Catalog, Docs, Support, and Manage. The main content area is titled 'Cloudant' with 'Author: IBM' and tabs for 'Create' and 'About'. The 'Create' tab is active, showing a 'Select an offering' section with the 'Cloudant' offering selected. Below this is a 'Select an environment' section with 'Multitenant' selected. Under 'Available regions', 'London' is selected. A blue arrow points to the 'London' selection. On the right, a 'Summary' sidebar shows the 'Cloudant Lite' plan as 'Free'. At the bottom of the sidebar are 'Create' and 'Add to estimate' buttons.

Summary	
1 Cloudant Lite	Free
20 Reads/sec	Free
10 Writes/sec	Free
5 Global Queries/sec	Free
1 GB Storage	Included

Create

Add to estimate

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.

Configure Cloudant instance

Instance name: mycloudant

Resource group: Default

Tags: Examples: env:dev, version-1

Authentication method: IAM and legacy credentials

Plan:

- Lite** (Selected)
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:

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

Cloudant Lite	Free
20 Reads/sec	Free
10 Writes/sec	Free
5 Global Queries/sec	Free
1 GB Storage	Included

Create

Add to estimate

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

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Capacity:

20 Reads per second	10 Writes per second	5 Queries per second	1 GB Storage included
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Service created

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

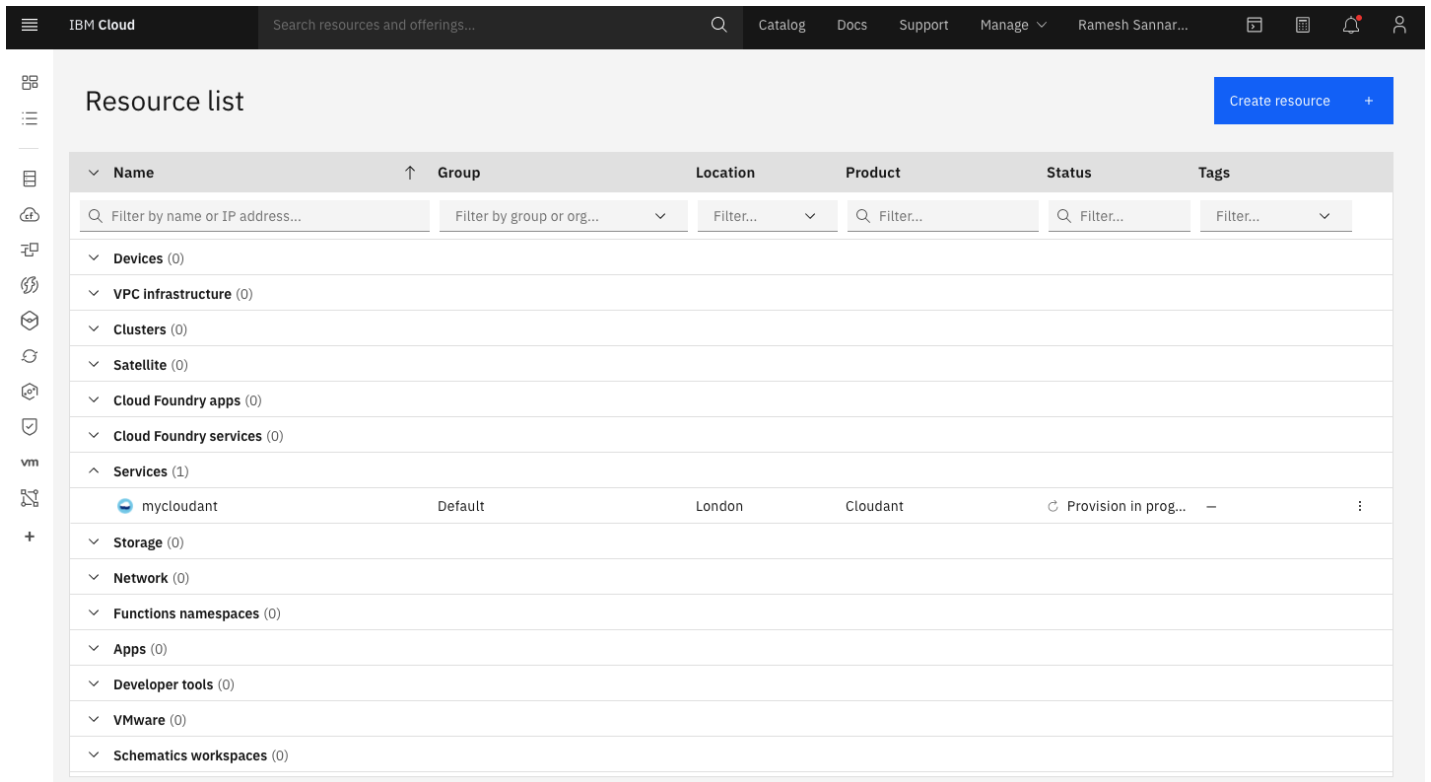
Create

Add to estimate

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 in progress.

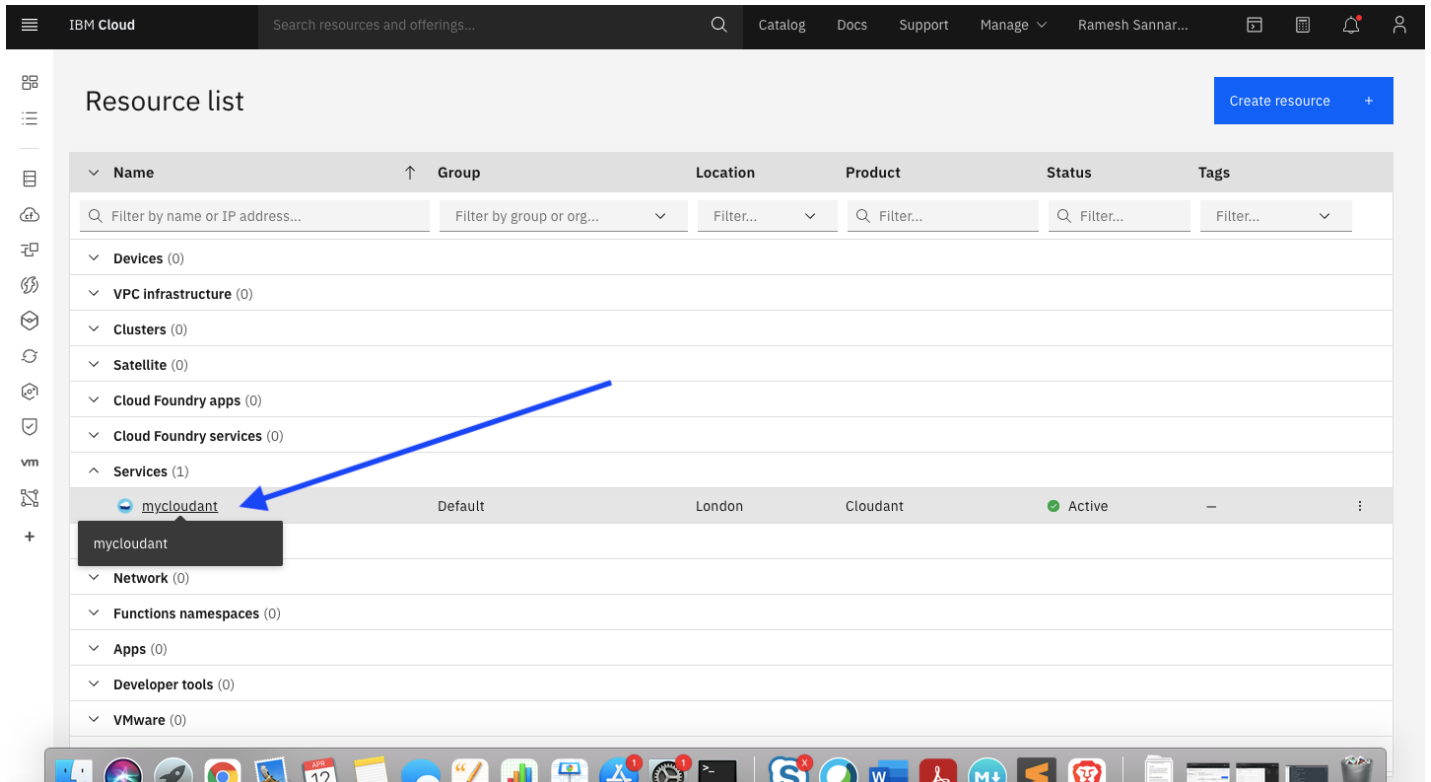


Resource list

Create resource +

Name	Group	Location	Product	Status	Tags
Filter by name or IP address... Filter by group or org... Filter... Filter... Filter... Filter...					
Devices (0)					
VPC infrastructure (0)					
Clusters (0)					
Satellite (0)					
Cloud Foundry apps (0)					
Cloud Foundry services (0)					
Services (1)					
mycloudant	Default	London	Cloudant	Provision in progress	—
Storage (0)					
Network (0)					
Functions namespaces (0)					
Apps (0)					
Developer tools (0)					
VMware (0)					
Schematics workspaces (0)					

Step 9: Wait till the status turns 'Active' and click on mycloudant or your custom instance name.



Resource list

Create resource +

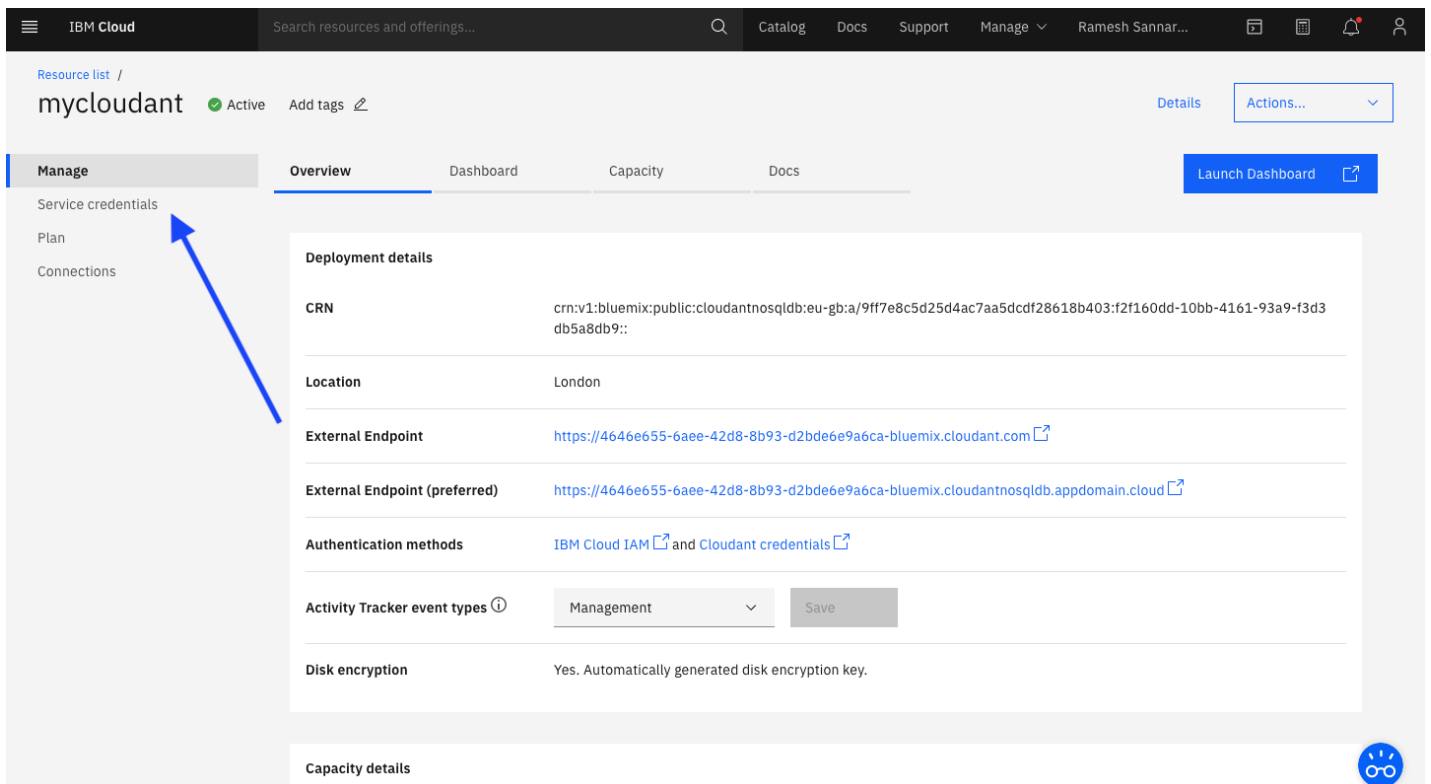
Name	Group	Location	Product	Status	Tags
Filter by name or IP address... Filter by group or org... Filter... Filter... Filter... Filter...					
Devices (0)					
VPC infrastructure (0)					
Clusters (0)					
Satellite (0)					
Cloud Foundry apps (0)					
Cloud Foundry services (0)					
Services (1)					
mycloudant	Default	London	Cloudant	Active	—
Network (0)					
Functions namespaces (0)					
Apps (0)					
Developer tools (0)					
VMware (0)					

You will be taken to the Cloudant instance page.

You have successfully created the Cloudant instance.

Exercise 3 - Create Cloudant Service credentials

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



IBM Cloud

Search resources and offerings...

Resource list / mycloudant Active Add tags

Details Actions...

Manage Overview Dashboard Capacity Docs

Service credentials Plan Connections

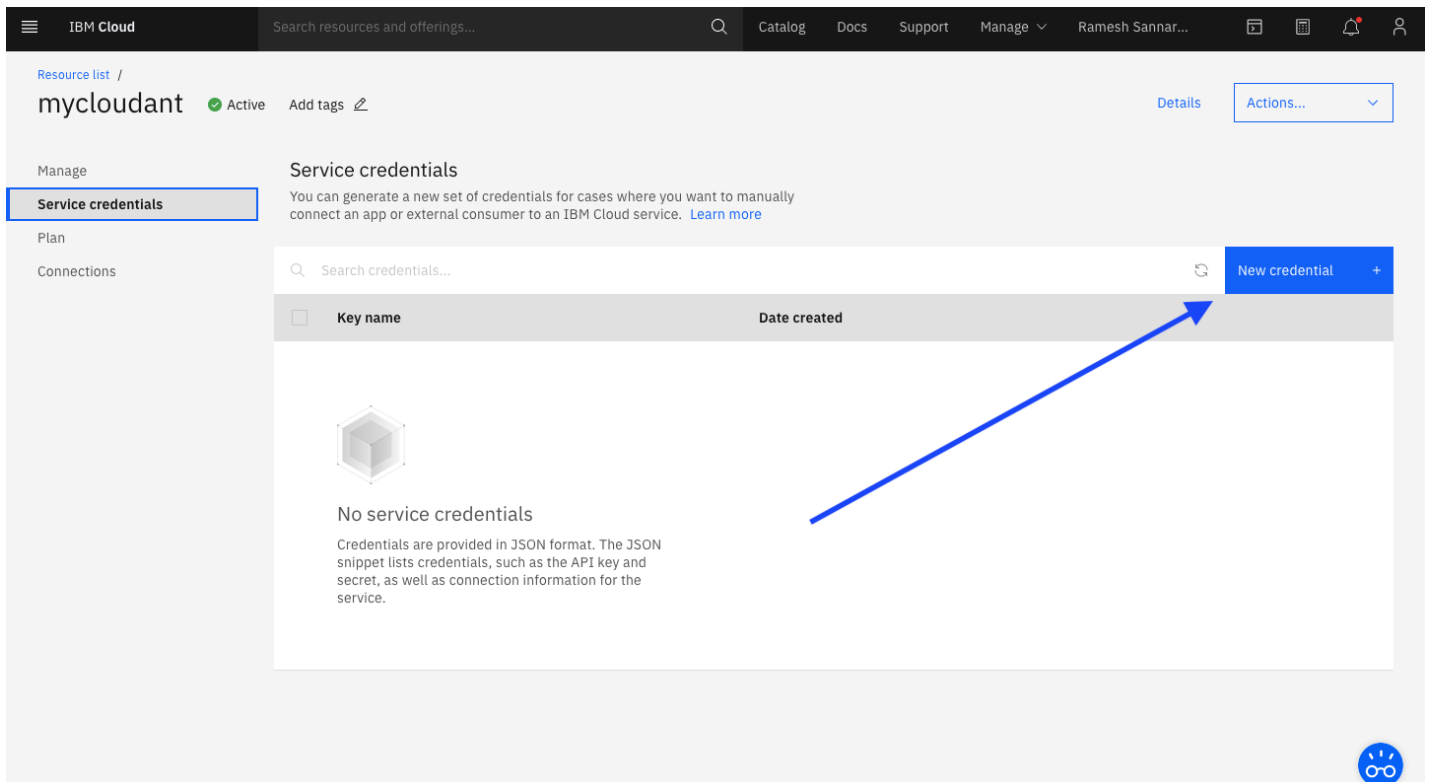
Launch Dashboard

Deployment details

CRN	crn:v1:bluemix:public:cloudantnosqldb:eu-gb:a/9ff7e8c5d25d4ac7aa5dcdf28618b403:f2f160dd-10bb-4161-93a9-f3d3db5a8db9::
Location	London
External Endpoint	https://4646e655-6aee-42d8-8b93-d2bde6e9a6ca-bluemix.cloudant.com
External Endpoint (preferred)	https://4646e655-6aee-42d8-8b93-d2bde6e9a6ca-bluemix.cloudantnosqldb.appdomain.cloud
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...

Resource list / mycloudant Active Add tags


Details Actions...

Manage

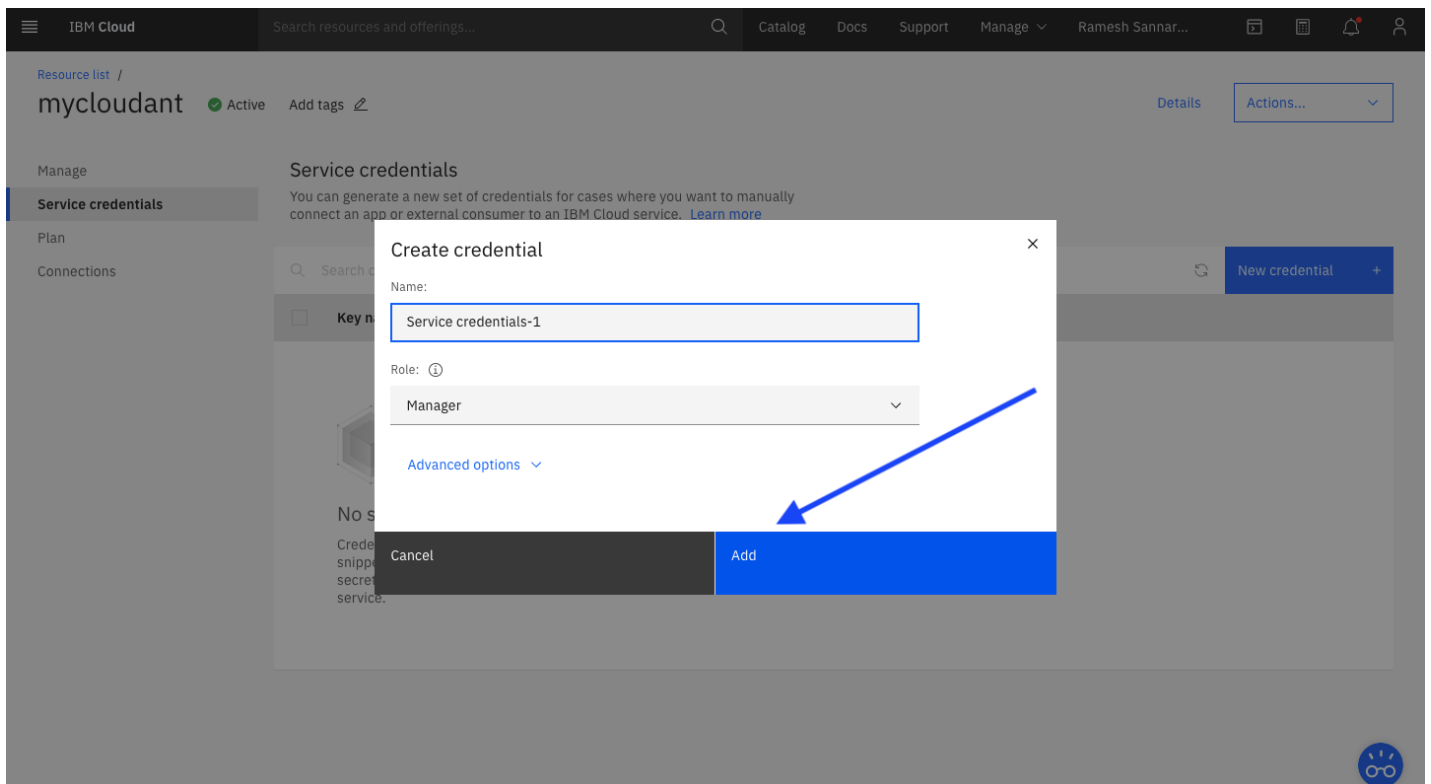
Service credentials

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](#)

Search credentials... New credential +

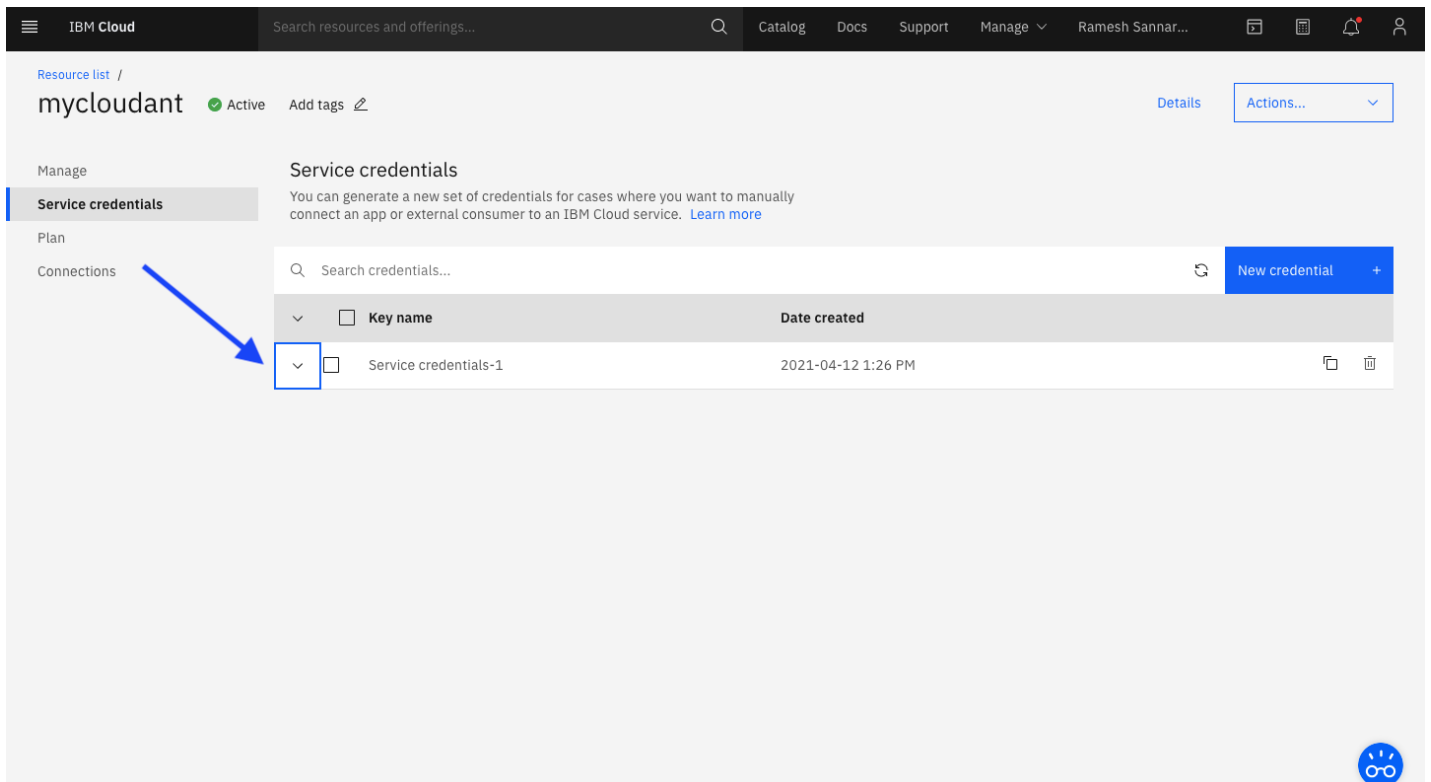
<input type="checkbox"/> Key name	Date created
 <p>No service credentials</p> <p>Credentials are provided in JSON format. The JSON snippet lists credentials, such as the API key and secret, as well as connection information for the service.</p>	

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.



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

IBM Cloud

Search resources and offerings...

Catalog

Docs

Support

Manage

Ramesh Sannar...

Resource list /

mycloudant

Active

Add tags

Details

Actions...

Manage

Service credentials

Plan

Connections

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...

New credential

Key name	Date created
Service credentials-1	2021-04-12 1:26 PM
<pre>{ "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:vl:bluemix:public:iam::serviceRole:Manager", "iam_serviceid_crn": "crn:vl:bluemix:public:iam-identity:a/9ff7e8c5d25d4ac7aa5dcdcf28618b403::serviceid:ServiceId-7f3addaa-8111-4cb7-bbd4-3a6982702639", "password": "6b3dc2399426437b2397e08ac9cf0184", "port": 443, "url": "https://apikey-v2-1ktn8d6fuuo6kjoz145fris5ccx24fhmirsku7o3q7bh:6b3dc2399426437b2397e08ac9cf0184@4646e655-6aee-42d8-8b93-d2bde6e9a6ca-bluemix.cloudantnosqldb.appdomain.cloud", "username": "apikey-v2-1ktn8d6fuuo6kjoz145fris5ccx24fhmirsku7o3q7bh"}</pre>	

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.

Authors

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Change Log

Date (YYYY-MM-DD)	Version	Changed By	Change Description
2021-10-25	0.4	Kathy An	Updated learning objectives
2021-04-28	0.3	Steve Ryan	Changed IBM cloud links to markdown format
2021-04-13	0.2	Steve Ryan	Review pass
2021-04-8	0.1	Ramesh Sannareddy	Created initial version of the lab

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