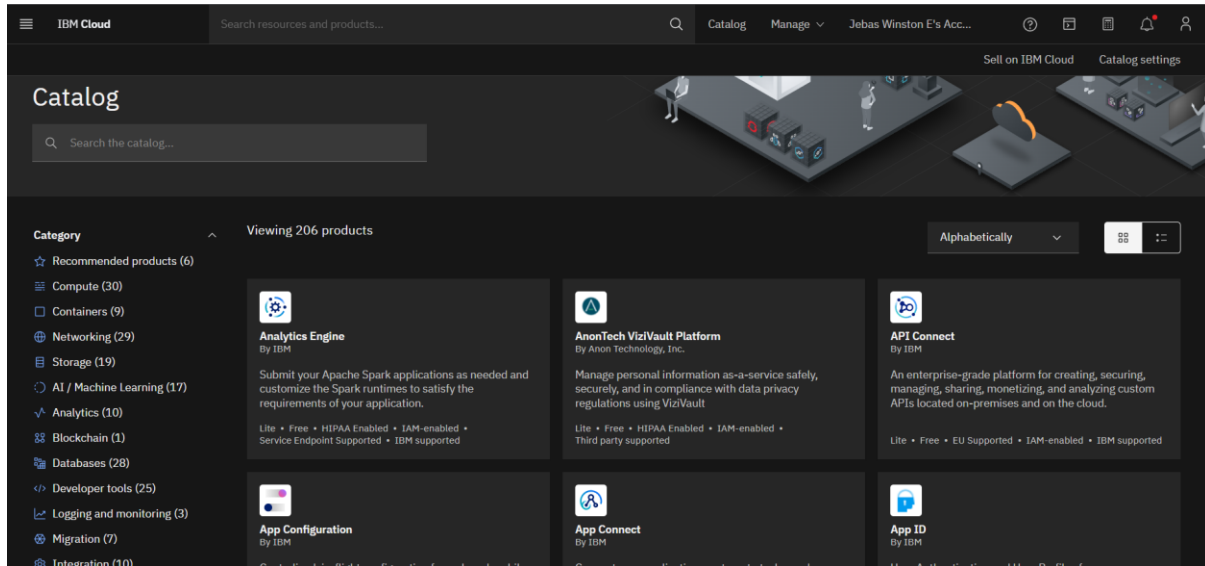


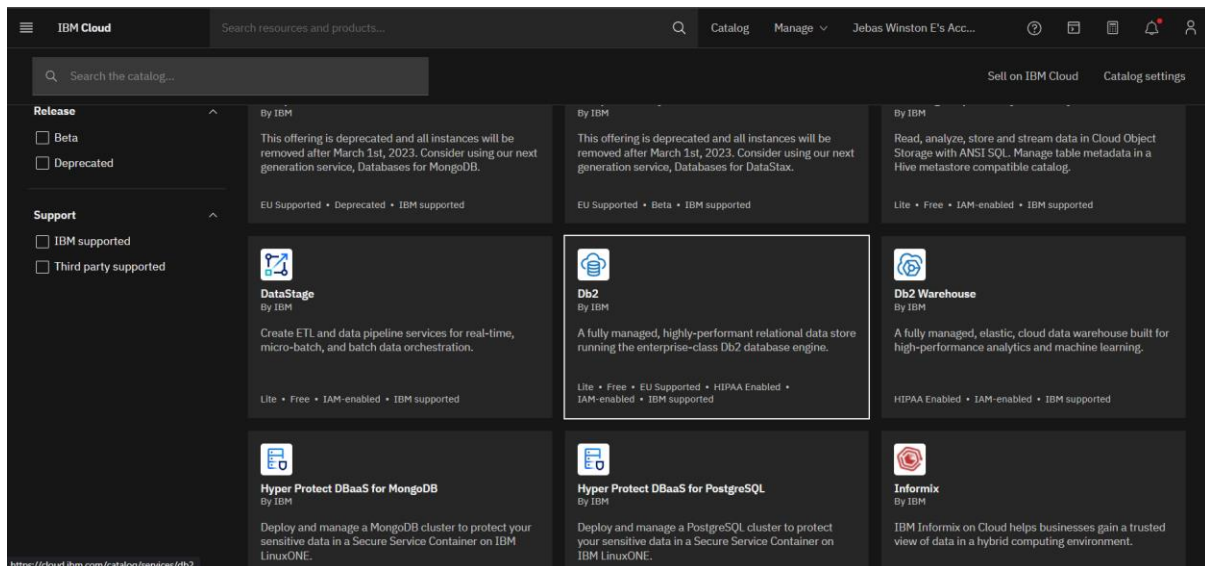
# Create IBM DB2 And Connect With Python

## Creating IBM DB2 Database

### 1) Go to Catalog.



### 2) Find Db2 in the Catalog and choose it.



### 3) Choose Dallas in location, fill in the necessary details and click create.

IBM Cloud

Search resources and products...

Catalog / Manage ▾ Jebas Winston E's Acc...

Db2

A fully managed, highly-performant relational data store running the enterprise-class Db2 database engine.

Create About

Type Service

Provider IBM

Last updated 11/10/2022

Category Databases

Compliance EU Supported HIPAA Enabled IAM-enabled

Location Sydney Frankfurt London Dallas Sao Paulo Toronto

Select a location

Dallas (us-south) ▾

Select a pricing plan

Displayed prices do not include tax. Monthly prices shown are for country or location: [United States](#)

Plan	Features	Pricing
Lite	200 MB of data storage 5 simultaneous connections Shared multitenant system	Free

The Free plan provides a free Db2 service for development and evaluation. The plan has a set amount of limitations as shown. You can continue using the free plan for as long as needed, however, users are asked to re-extend their free account every 90 days by email. If you do not re-extend, your free account is cleaned out a further 90 days later. This helps provide free resources for everyone.

Summary

Db2 Free

Location: Dallas

Plan: Lite

Service name: Db2-jd

Resource group: Default

☒ I have read and agree to the following license agreements:  
[Terms](#)

Create

Add to estimate

### 4) Choose Resource and find your database in the list.

IBM Cloud

Search resources and products...

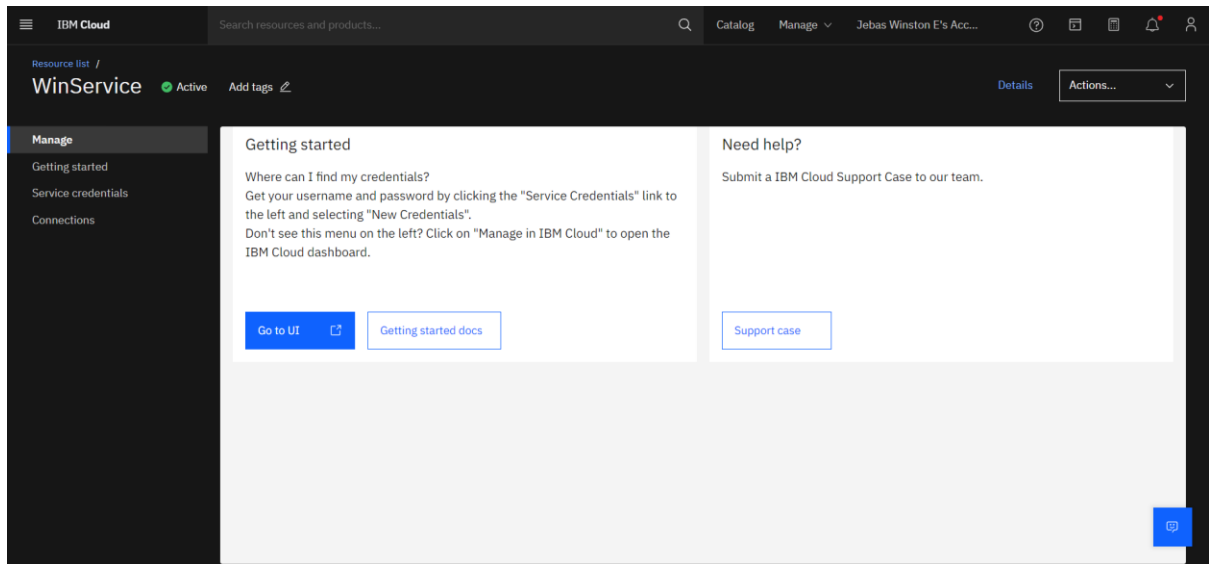
Catalog Manage ▾ Jebas Winston E's Acc...

Resource list

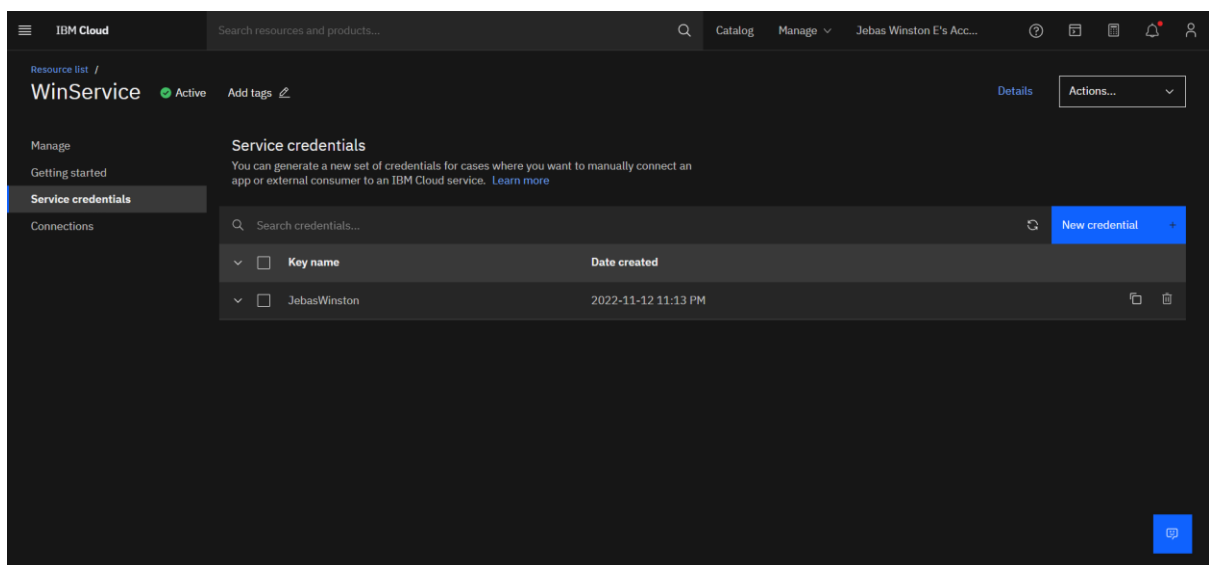
Create resource +

Name	Group	Location	Product	Status	Tags
Filter by name or IP address... Filter by group or org... Filter... Filter... Filter...					
Containers (0)					
Networking (0)					
Storage (1+)					
AI / Machine Learning (1+)					
Analytics (0)					
Blockchain (0)					
Databases (1)					
WinService	Default	Dallas	Db2	Active	—
Developer tools (0)					
Logging and monitoring (0)					
Migration (0)					
Integration (0+)					

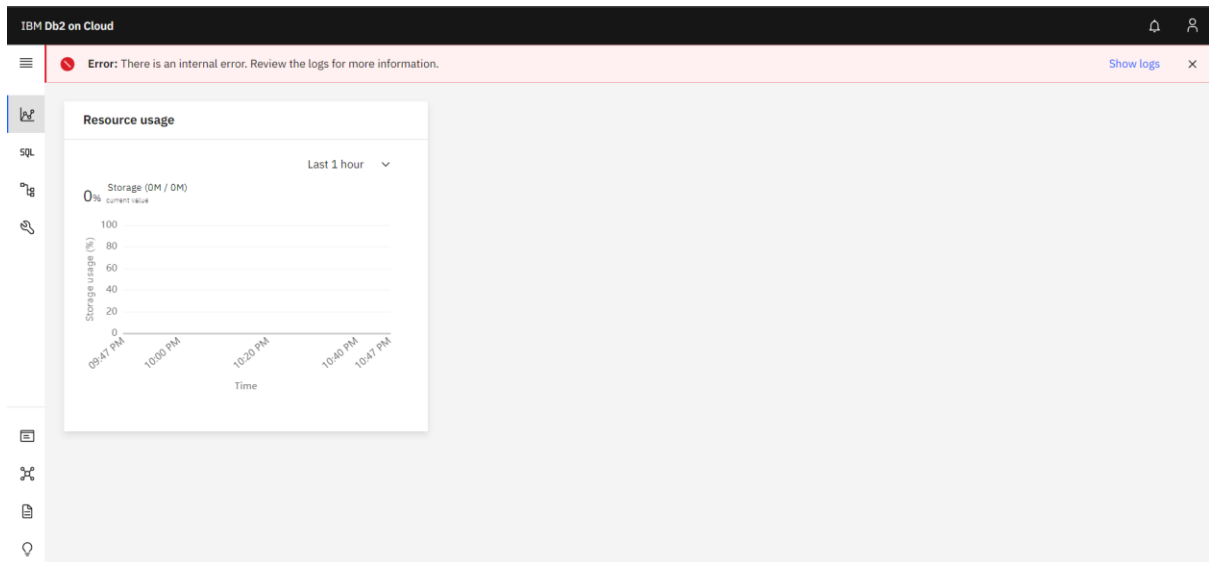
## 5) Select your database



## 6) Create Service Credentials



## 7) Choose Goto UI option in Manage Navigation Bar



## 8) Go to Data Menu and Create your table there.

The screenshot shows the IBM Db2 on Cloud console interface with the "Data" menu selected. The top header and error banner are the same as in the previous screenshot. The main content area is divided into two panels: "Schemas" and "Tables".

**Schemas Panel:**

Name	Type	Tables
<input checked="" type="checkbox"/> MBX07408	User	3

Total: 1, selected: 1

**Tables Panel:**

Name	Schema	Properties
<input type="checkbox"/> ADMIN	MBX07408	...
<input type="checkbox"/> USER	MBX07408	...
<input type="checkbox"/> ZONES	MBX07408	...

Total: 3, selected: 0

## 9) Download the SSL Certificate in Administration Panel.

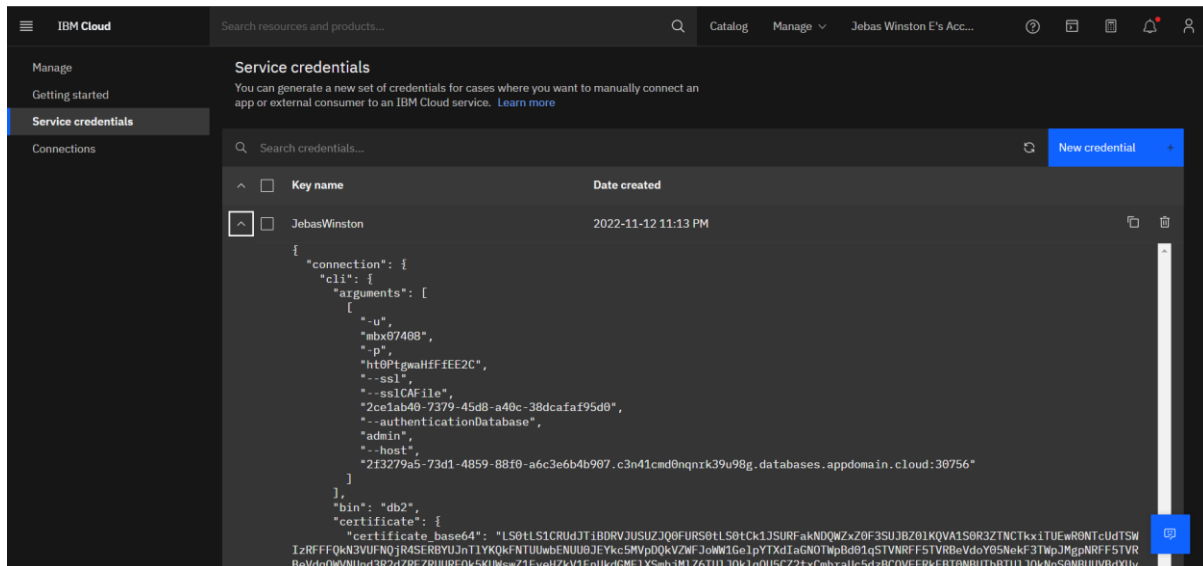
The screenshot shows the IBM Db2 on Cloud Administration Panel. At the top, there is a navigation bar with the title "IBM Db2 on Cloud" and a user icon. Below the navigation bar, there is a red error banner that reads: "Error: There is an internal error. Review the logs for more information." with a "Show logs" link and a close button. The main content area is divided into two columns. The left column is titled "Instructions" and contains a list of steps: 1. Download Linux driver package (with a link to "driver list" and the file name "ibm\_data\_server\_driver\_package\_linuxx64\_v11.5.tar.gz (70 MB)"); 2. Run the following example commands to decompress the file (with code blocks for "gunzip" and "tar" commands); 3. Extract the Java and ODBC/CLI drivers by running the following command from the dsdriver directory (with the command ".installDSDriver"); 4. Run the script file for your shell environment (with code blocks for "bash" and "source" commands). The right column is titled "Connection configuration resources" and contains a table of configuration details: Host name, With SSL, Port number, Database name, User ID, Password, and Version. Below the table, there is a "Download SSL Certificate" button. At the bottom, there is a "JDBC string" section with a code block for the JDBC URL and a "REST API host name" section with a code block for the REST API URL.

## Connecting IBM DB2 Database with Python using Flask

### 1) Create a Flask App

```
app.py X
app.py ? ...
1
2  ## Import Statements
3  from flask import Flask, render_template
4  from decouple import config
5  import ibm_db
6
7  ## Object Creation for flask
8  app = Flask(__name__)
9  app.secret_key = 'a'
10
11 #! Important: Connecting to IBM DB2 Database
12 try:
13     url = "DATABASE=" + config('DATABASE') + "; HOSTNAME=" + config('HOSTNAME') + "; PORT=" + config('PORT') + "; SECURITY=" + config('SECURITY') + "; SSLServerCertificate=" + config('SSLServerCertificate') + "; UID=" + config('UID') + "; PWD=" + config('PWD')
14     conn = ibm_db.connect(url, "", "")
15     print(" * Connected to IBM DB2 Database")
16 except:
17     print("Failed to connect")
18
19 ## Main Routes
20 ## Route to Login
21 @app.route('/')
22 @app.route('/login')
23 def login():
24     return render_template('index.html')
25
26 ## Run the flask server
27 if __name__ == "__main__":
28     app.run(debug=True)
29
```

## 2) Get the connection credentials from the Service Credentials that we've created



## 3) Run the Flask App

