STEPS TO CREATE IBM DB2 AND CONNECTION WITH PYTHON

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PROJECT NAME	Skill and Job Recommender
DATE	03 Nov 2022

Step 1: Import the ibm_db Python library

```
!pip install --force-reinstall ibm_db==3.1.0 ibm_db_sa==0.3.7
import ibm_db
```

Step 2: Identify the database connection credentials:

```
dsn_hostname = "fbd88901-ebdb-4a4f-a32e-
9822b9fb237b.c1ogj3sd0tgtu0lqde00.databases.appdomain.cloud"
dsn_uid = "wxs77796"
dsn_pwd = "fv1zsnR7cf2LCSA3"
dsn_driver = "{IBM DB2 ODBC DRIVER}" dsn_database =
"BLUDB"# e.g. "BLUDB" dsn_port = "32731"
dsn_protocol = "TCPIP"        # i.e. "TCPIP" dsn_security =
"SSL"                         #i.e. "SSL"
```

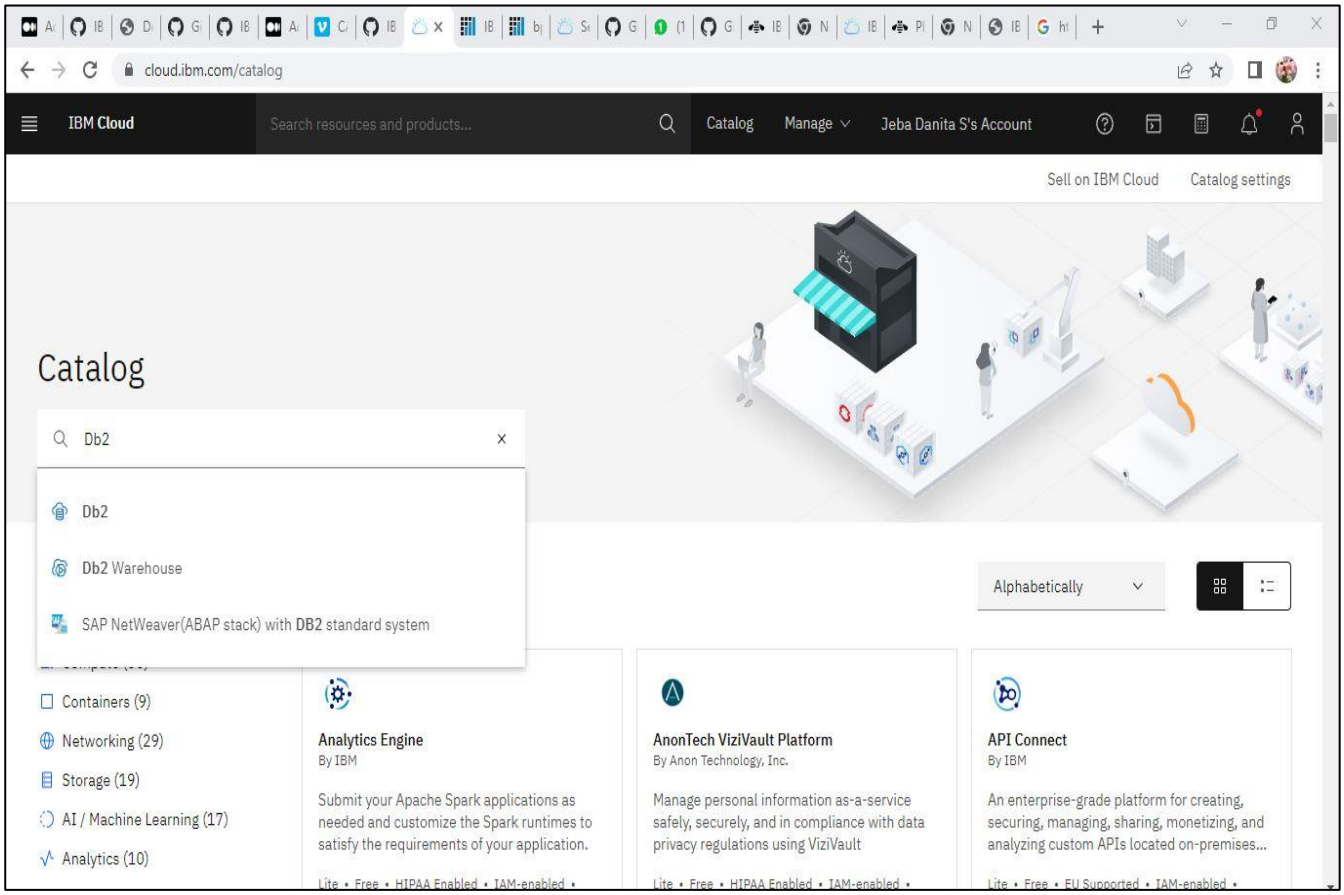
Step 3: Create the DB2 database connection

```
dsn = (
 "DRIVER={0};"
"DATABASE={1};"
"HOSTNAME={2};"
"PORT={3};"
"PROTOCOL={4};"
"UID={5};"
"PWD={6};"
"SECURITY={7};").format(dsn_driver, dsn_database, dsn_hostname, dsn_port,
dsn_protocol, dsn_uid, dsn_pwd,dsn_security)
print(dsn)
```

```
## Now establish the connection to the database

try:
conn = ibm_db.connect(dsn, "", "")
print ("Connected to database: ", dsn_database, "as user: ", dsn_uid, "on host: ", dsn_hostname)
 except:
print ("Unable to connect: ", ibm_db.conn_errormsg()

## You can also retrieve the metadata from the Database
server.

server = ibm_db.server_info(conn)
print (“DBMS_NAME: ”, server.DBMS_NAME)
print (“DBMS_VER: ”, server.DBMS_VER)
print (“DB_NAME: ”, server.DB_NAME)
client = ibm_db.client_info(conn)
print ("DRIVER_NAME: ", client.DRIVER_NAME)
print ("DRIVER_VER:    ", client.DRIVER_VER)
print ("DATA_SOURCE_NAME: ", client.DATA_SOURCE_NAME)
print ("DRIVER_ODBC_VER: ", client.DRIVER_ODBC_VER)
print ("ODBC_VER:        ", client.ODBC_VER)
print ("ODBC_SQL_CONFORMANCE: ", client.ODBC_SQL_CONFORMANCE)
print ("APPL_CODEPAGE: ", client.APPL_CODEPAGE)
print ("CONN_CODEPAGE: ", client.CONN_CODEPAGE)
```

Step 4: Close the connection

```
ibm_db.close(conn)
```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Db2
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Db2 Warehouse
SAP NetWeaver(ABAP stack) with DB2 standard system
Alphabetically
Containers (9)
Networking (29)
Storage (19)
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Analytics Engine
By IBM
Submit your Apache Spark applications as needed and customize the Spark runtimes to satisfy the requirements of your application.
AnonTech ViziVault Platform
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Manage personal information as-a-service safely, securely, and in compliance with data privacy regulations using ViziVault
API Connect
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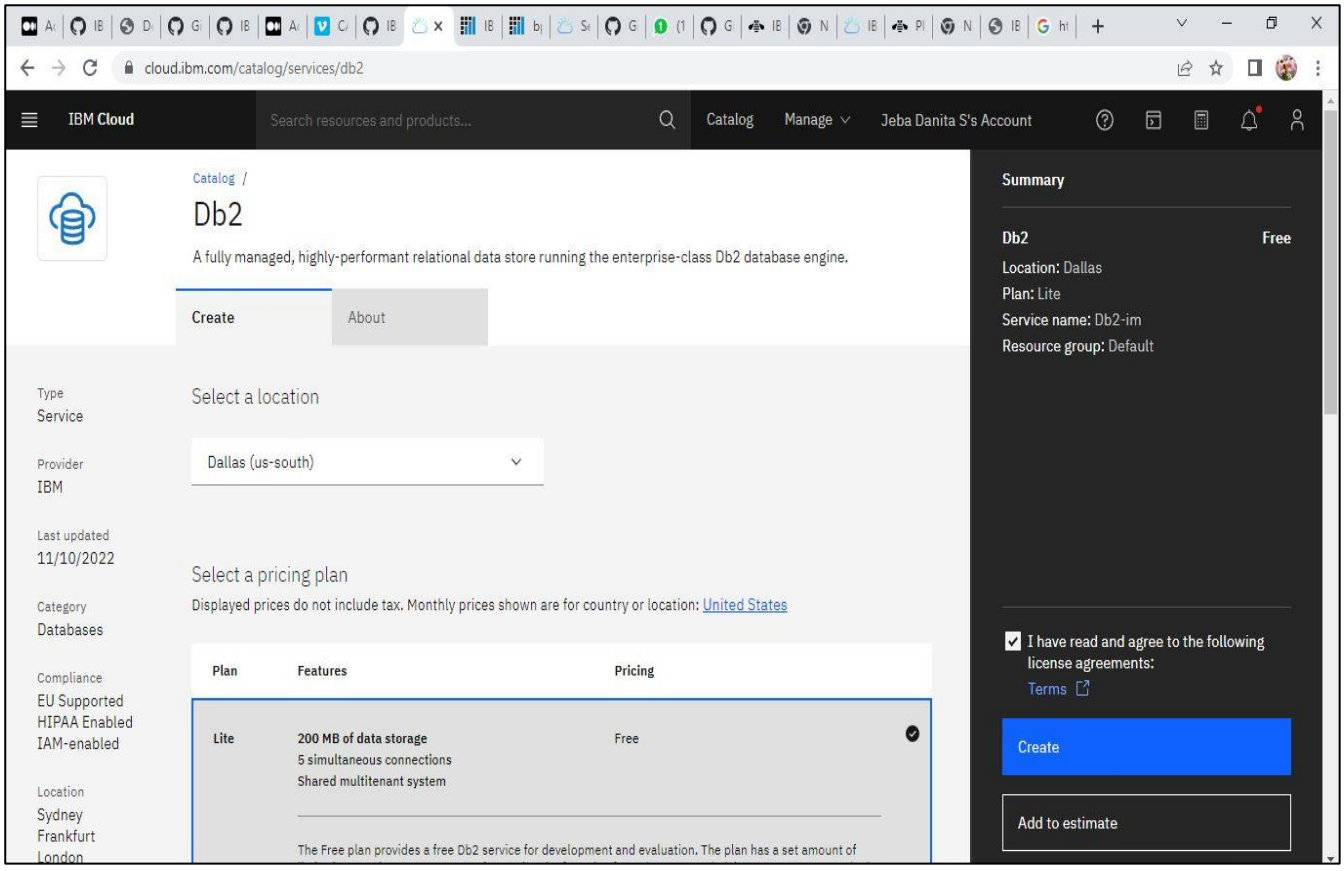
An enterprise-grade platform for creating, securing, managing, sharing, monetizing, and analyzing custom APIs located on-premises...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A fully managed, highly-performant relational data store running the enterprise-class Db2 database engine.
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Last updated
11/10/2022
Category
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Compliance
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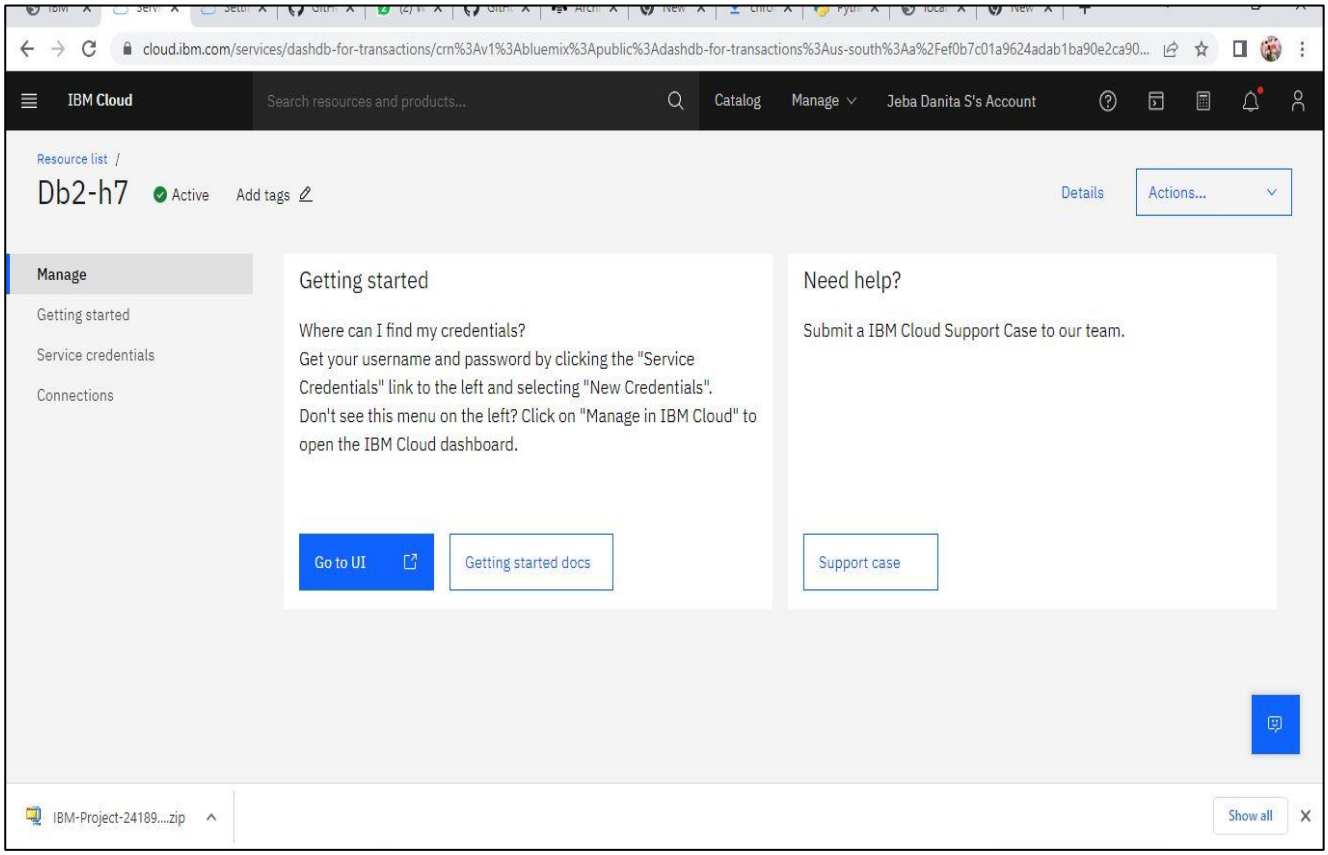
IAM-enabled
Location
Sydney
Frankfurt
London
Select a location
Dallas (us-south)
Select a pricing plan
Displayed prices do not include tax. Monthly prices shown are for country or location: United States
Plan
Features
Pricing
Lite
200 MB of data storage
5 simultaneous connections
Shared multitenant system
Free
The Free plan provides a free Db2 service for development and evaluation. The plan has a set amount of
Summary
Db2
Free
Location: Dallas
Plan: Lite
Service name: Db2-im
Resource group: Default
I have read and agree to the following license agreements:
Terms
Create
Add to estimate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Connections
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Get your username and password by clicking the "Service Credentials" link to the left and selecting "New Credentials".
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