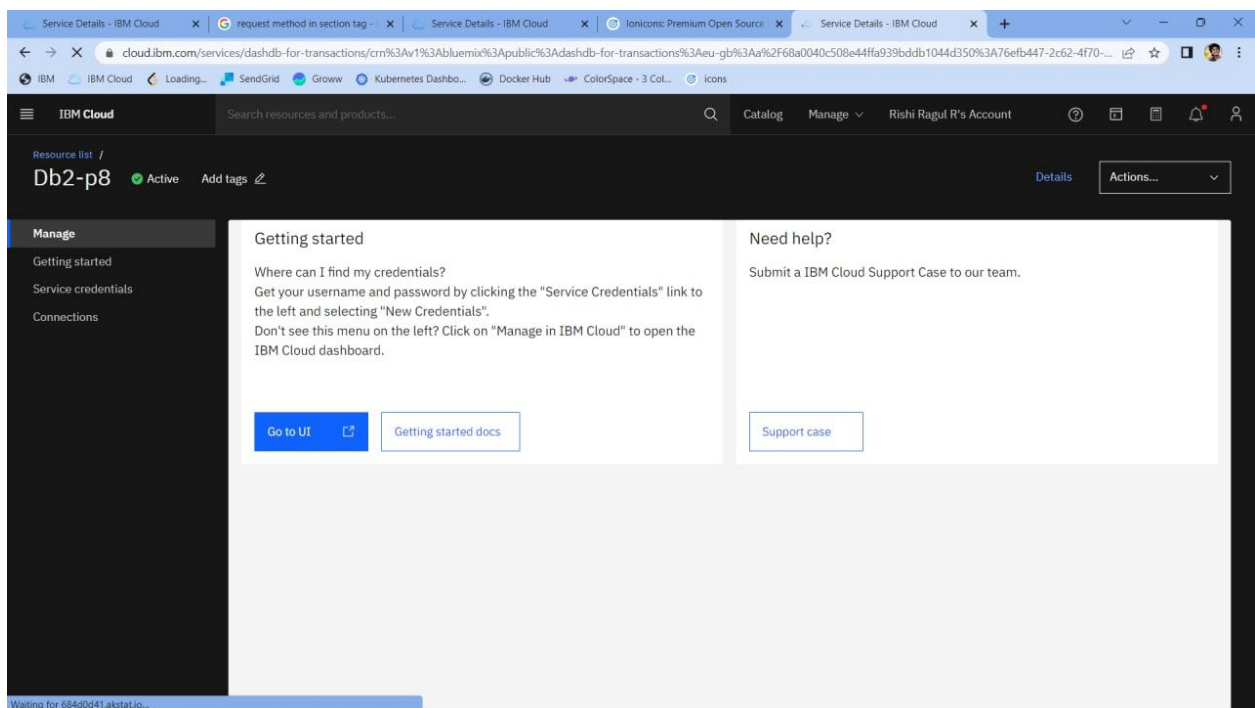


Implementing Web Application

Creating IBM-Db2 and Connect With Python

Date	27 October 2022
Team ID	PNT2022TMID29830
Project Name	Inventory Management System for Retailers

Step 1. Creating IBM data base



Step 2. Downloading SSC certificate for connection

The screenshot shows the IBM Db2 on Cloud 'Connections' page. The 'Windows' tab is selected. The page provides instructions for downloading the Windows driver package, installing it, and configuring the connection. The 'Connection configuration resources' section lists the following details:

- Host name: 0c77d6f2-5da9-48a9-81f8-86b520b87518.bs2io90i08kqb1od8lclg.databases.appdomain.cloud
- With SSL: Yes
- Port number: 31198
- Database name: bludb
- User ID: <user name>
- Password: *****
- Version: Compatible with Db2, Version 11.5.0 or later

A 'Download SSL Certificate' button is available. The 'JDBC string' section shows the following string:

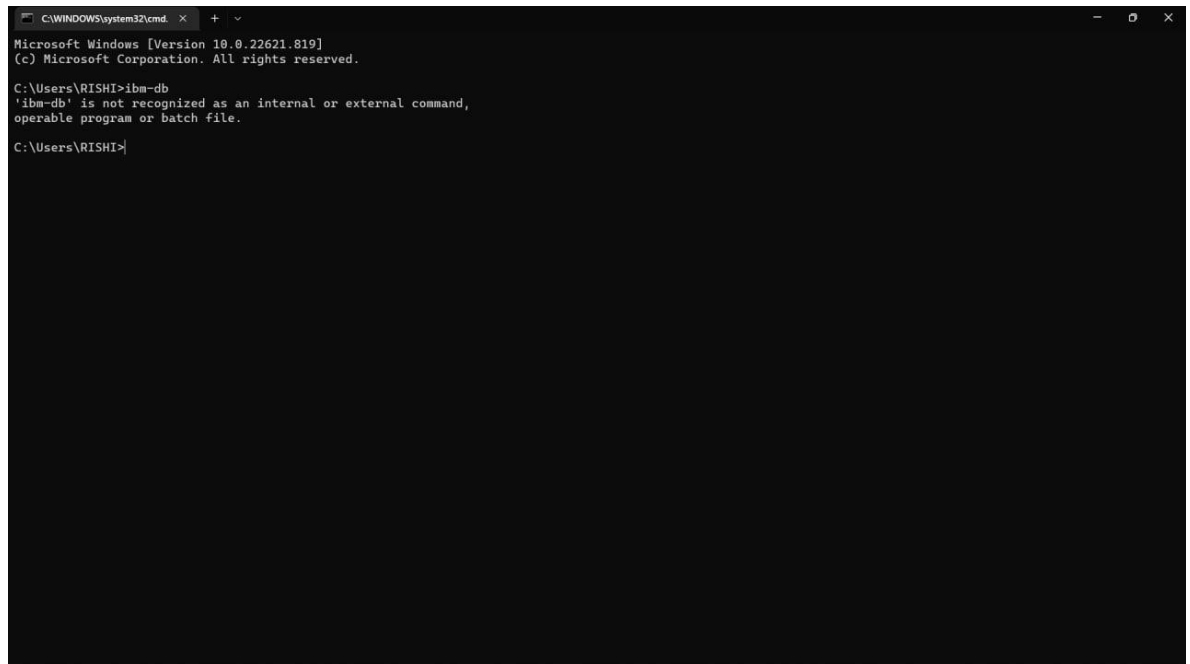
```
jdbc:db2://0c77d6f2-5da9-48a9-81f8-86b520b87518.bs2io90i08kqb1od8lclg.databases.appdomain.cloud:31198/bludb:user=<user name>;password=<your_password>;sslco
```

Step 3. Creating service credential which contains host name, DB name, UID, Password

The screenshot shows the IBM Cloud console 'Service credentials' page for the 'Db2-p8' resource. The page includes a search bar, a 'New credential' button, and a table of existing credentials.

Key name	Date created
Service credentials-1	2022-11-13 12:04 PM

Step 4. Installing ibm-db package

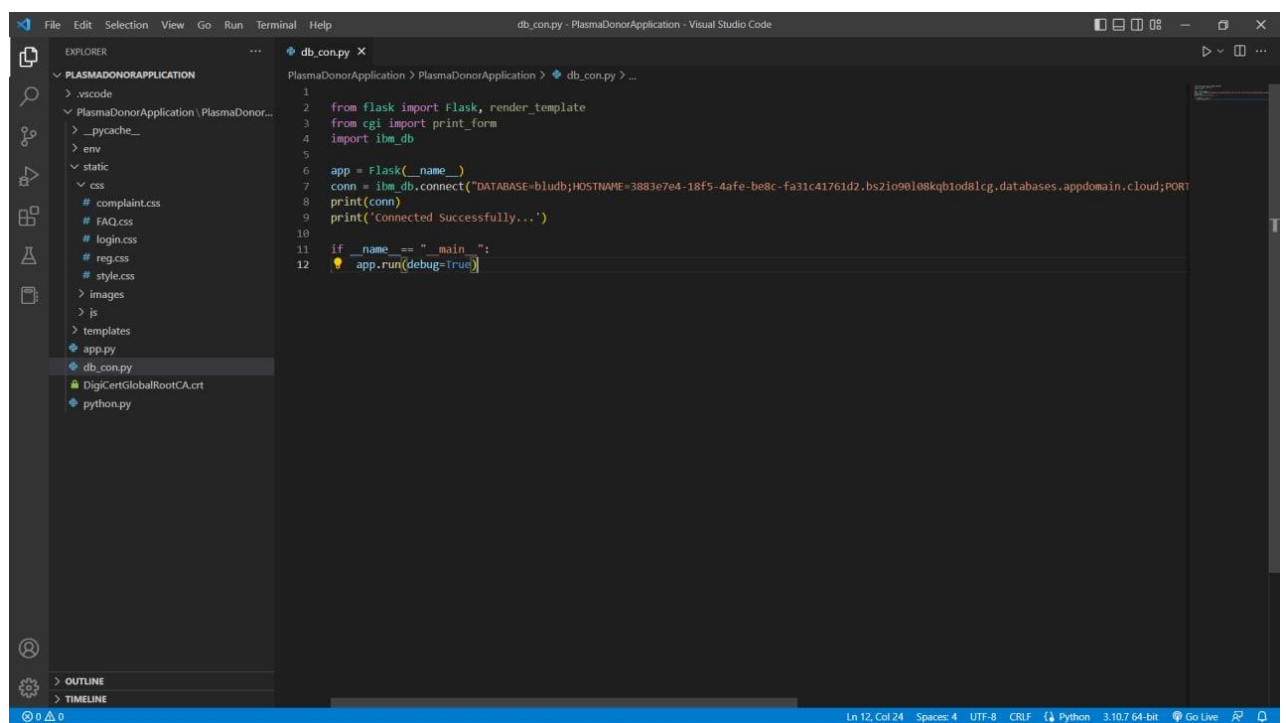


```
C:\WINDOWS\system32\cmd. x + v
Microsoft Windows [Version 10.0.22621.819]
(c) Microsoft Corporation. All rights reserved.

C:\Users\RISHI>ibm-db
'ibm-db' is not recognized as an internal or external command,
operable program or batch file.

C:\Users\RISHI>
```

Step 4. Connecting IBM DB2 with python flask



```
db_con.py - PlasmaDonorApplication - Visual Studio Code
1
2 from flask import Flask, render_template
3 from cgi import print_form
4 import ibm_db
5
6 app = Flask(__name__)
7 conn = ibm_db.connect("DATABASE=bludb;HOSTNAME=3883e7e4-18f5-4afe-be8c-fa31c41761d2.bs21o90l08kqb1odBlcg.databases.appdomain.cloud;PORT
8 print(conn)
9 print('connected Successfully...')
10
11 if __name__ == "__main__":
12     app.run(debug=True)
```

