

Implementing the Web Application

Create IBM DB2 And Connect with Python

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Project Name: PLASMA DONOR APPLICATION

The screenshot shows the IBM Cloud console interface. At the top is a dark navigation bar with the IBM Cloud logo, a search bar, and links for Catalog, Manage, and the user profile (Akshara Manoharan's A...). Below the navigation bar, the main content area is titled 'Resource list / Db2-w7' with a green 'Active' status and an 'Add tags' link. On the left, a 'Manage' sidebar lists 'Getting started', 'Service credentials', and 'Connections'. The 'Getting started' section is active, displaying instructions on how to find credentials and a 'Go to UI' button. A 'Need help?' section on the right prompts the user to submit a support case.

IBM Cloud

Search resources and products...

Catalog Manage Akshara Manoharan's A...

Resource list / Db2-w7 Active Add tags

Details Actions...

Manage

Getting started

Service credentials

Connections

Getting started

Where can I find my credentials?
Get your username and password by clicking the "Service Credentials" link to the left and selecting "New Credentials".
Don't see this menu on the left? Click on "Manage in IBM Cloud" to open the IBM Cloud dashboard.

Go to UI

Getting started docs

Need help?

Submit a IBM Cloud Support Case to our team.

Support case

This screenshot shows the 'Service credentials' page in the IBM Cloud console. The left sidebar now highlights 'Service credentials' under the 'Manage' section. The main content area, titled 'Service credentials', explains that users can generate new credentials for connecting external consumers. Below this is a table of existing credentials. A 'New credential' button is located at the top right of the table.

IBM Cloud

Search resources and products...

Catalog Manage Akshara Manoharan's A...

Resource list / Db2-w7 Active Add tags

Details Actions...

Manage

Getting started

Service credentials

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-2	2022-11-23 12:19 PM	
Service credentials-1	2022-11-21 11:00 PM	

IBM Db2 on Cloud

Load Data

Load History

Tables

Views

Indexes

Aliases

MQTs

Sequences

Application objects

Find schemas or tables

Refresh

SQL

Schemas

Tables

Table definition

New table

Name	Schema	Properties
REQUESTID	VNL94634	...
REQUESTS	VNL94634	...

Total: 2, selected: 0

Table definition

REQUESTS

Approximate 0 rows (0 KB)
Updated on 2022-11-23 18:32:36

Name	Data type	Nullable	Length	Scale
REQID	INTEGER	Y		0
USERID	INTEGER	Y		0
RECNAME	VARCHAR	Y	200	0
RECPHONE	BIGINT	Y		0

View data

File Edit Selection View Go Run Terminal Help

api-flask.py - Assignment 2 - Visual Studio Code

EXPLORER

ASSIGNMENT 2

templates

about.html

base.html

home.html

signin.html

signup.html

api-flask.py

DigiCertGlobalRootCA.crt

secrets.env

api-flask.py

```

1 from flask import Flask, render_template
2 import ibm_db
3 import os
4 from dotenv import load_dotenv
5 from pathlib import Path
6
7 dotenv_path = Path('secrets.env')
8 load_dotenv(dotenv_path=dotenv_path)
9 try:
10     conn = ibm_db.connect("DATABASE=bludb;HOSTNAME=0c77d6f2-5da9-48a9-81f8-86b520b87518.bs2io90l08qbtod8l1cg.databases.appdomain.cloud;")
11     print("Connected to IBM DB2, Server Details:")
12     server = ibm_db.server_info(conn)
13
14     print("DBMS_NAME: ", server.DBMS_NAME)
15     print("DBMS_VER: ", server.DBMS_VER)
16     print("DB_NAME: ", server.DB_NAME)
17 except:
18     print("Error: Cannot connect with IBM DB2")
19
20 app = Flask(__name__)

```

PROBLEMS

OUTPUT

DEBUG CONSOLE

TERMINAL

JUPYTER

```

Afraaz N/Assignment 2/api-flask.py"
Connected to IBM DB2, Server Details:
DBMS_NAME: DB2/11N.XXX8664
DBMS_VER: 11.05.0800
DB_NAME: BLUDB
* Serving Flask app 'api-flask'
* Debug mode: on
WARNING: This is a development server. Do not use it in a production deployment. Use a production WSGI server instead.
* Running on all addresses (0.0.0.0)
* Running on http://127.0.0.1:8080
* Running on http://192.168.1.38:8080
Press CTRL+C to quit
* Restarting with stat
Connected to IBM DB2, Server Details:
DBMS_NAME: DB2/11N.XXX8664
DBMS_VER: 11.05.0800
DB_NAME: BLUDB
* Debugger is active!
* Debugger PIN: 163-582-149

```

main

0 0 0

Live Share

Ln 11, Col 44 Spaces: 4 UTF-8 CRLF Python 3.9.7 64-bit Go Live Prettier