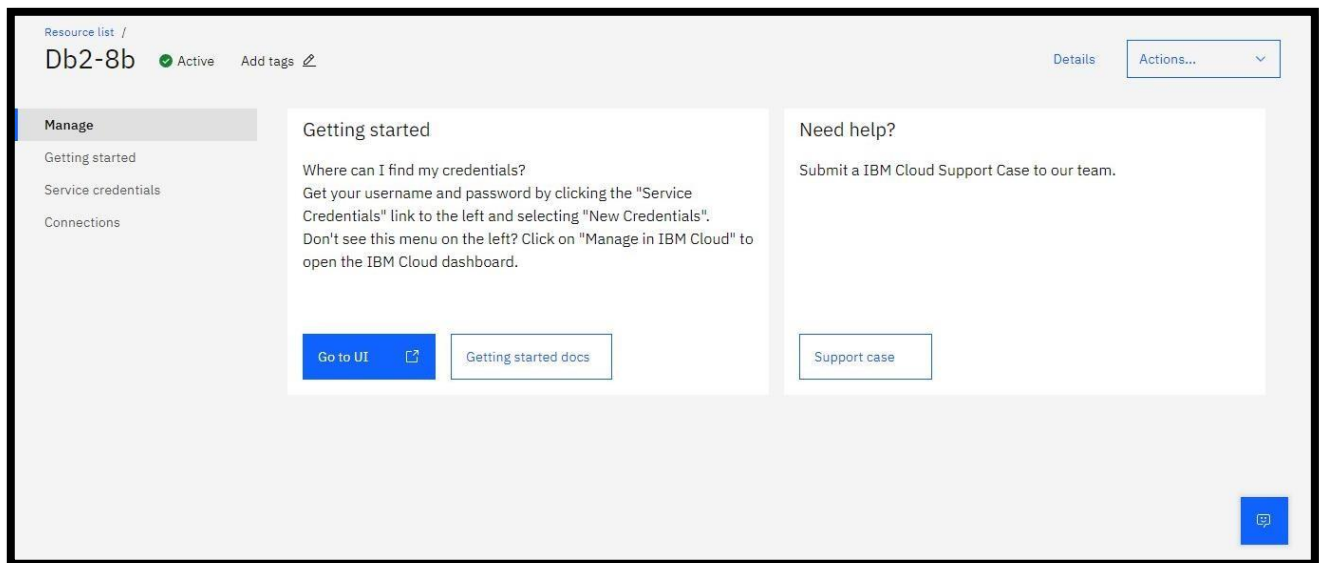


# Implementing web application

## Create IBM db2 and connect with Python

Date	5 November 2022
Team Id	PNT2022TMID07677
Project Name	Skill/job Recommender Application



### 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 = "2d46b6b4-cbf6-40eb-bbce-6251e6ba0300.bs2io90l08kqb1od8lcg.databases.appdomain.cloud"
```

```
dsn_uid = "vjd29721"    dsn_pwd = "6TTgx8MRBzT45o3q"
```

```
dsn_driver = "{IBM DB2 ODBC DRIVER}" dsn_database = "BLUDB" # e.g. "BLUDB" dsn_port = "32328" # e.g. "32733"
```

```
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

databasetry:

```

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() )

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)

```

IBM Db2 on Cloud

Load DataLoad HistoryTablesViewsIndexesAliasesMQTsSequencesApplication objects

Find schemas or tables

Refresh

SQL

Schemas

☒

Name

Type

Tables

☒

NVC66176

User

2

Total: 1, selected: 1

Tables

New table

☐

Name

Schema

Properties

☐

Flask-app

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...

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STUDENTS

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...

Total: 2, selected: 0

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Load DataLoad HistoryTablesViewsIndexesAliasesMQTsSequencesApplication objects

Find schemas or tables

Refresh

Schemas

Tables

New table

☐

Name

Schema

Properties

☐

Flask-app

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...

☐

STUDENTS

NVC66176

...

Total: 2, selected: 0

Table definition

Flask-app

Approximate 2 rows (32.0 KB)  
Updated on 2022-11-09 09:53:24

Name	Data type	Nullable	Length	Scale	
NAME	VARCHAR	Y	255	0	🔒
EMAIL	VARCHAR	Y	32	0	🔒
USERNAME	VARCHAR	Y	32	0	🔒
PASSWORD	VARCHAR	Y	32	0	🔒

View data

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Load Data Load History **Tables** Views Indexes Aliases MQTs Sequences Application objects

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Export to CSV ↓

NAME	EMAIL	USERNAME	PASSWORD
bharath	bharath@gmail.com	bharath1111	*****

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Export to CSV ↓

NAME	ADDRESS	CITY	PIN
Bharath	India	TN	6000000



