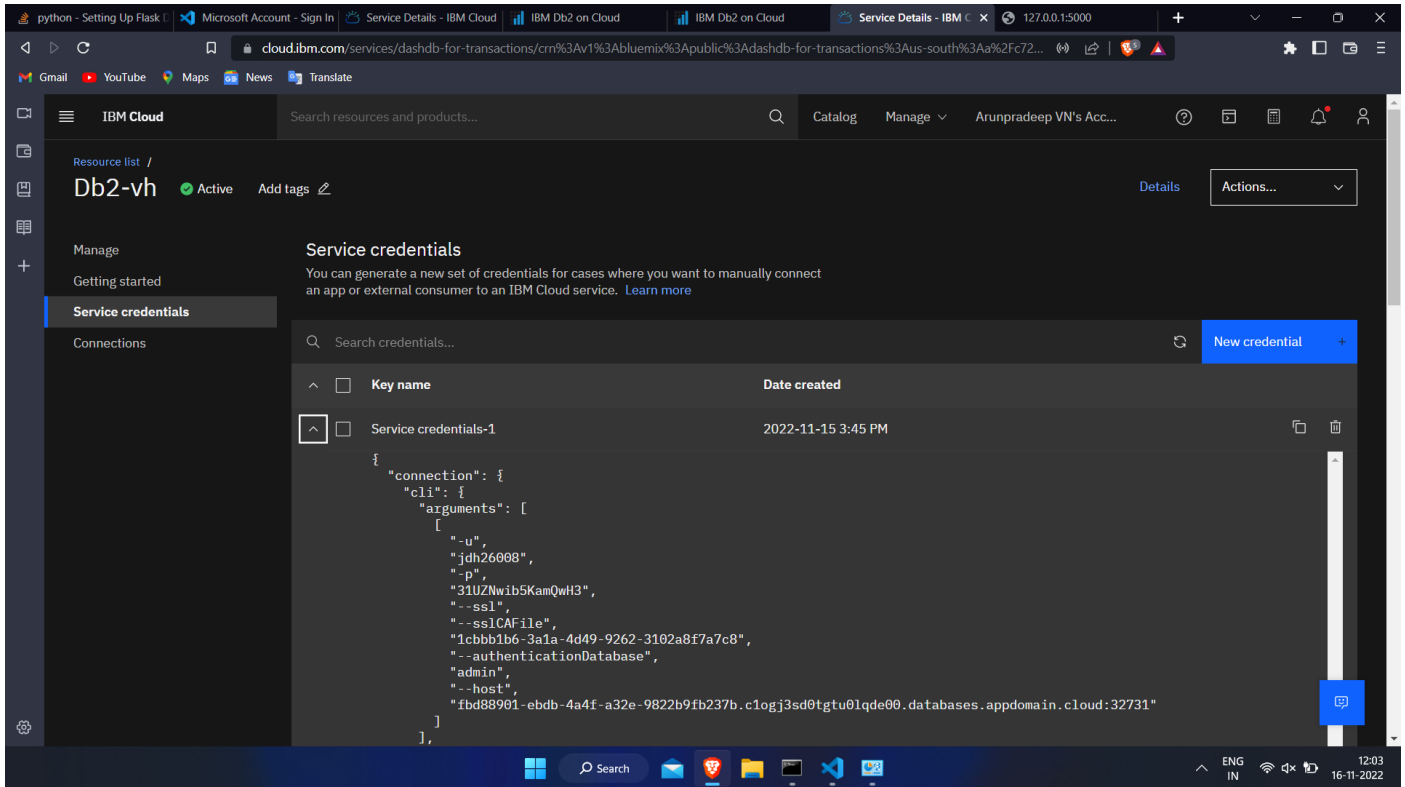


# IMPLEMENTING WEB APPLICATION

## Create IBM DB2 And Connect With Python

Date	05.11.2022
Team ID	PNT2022TMID48220
Project Name	Inventory Management System

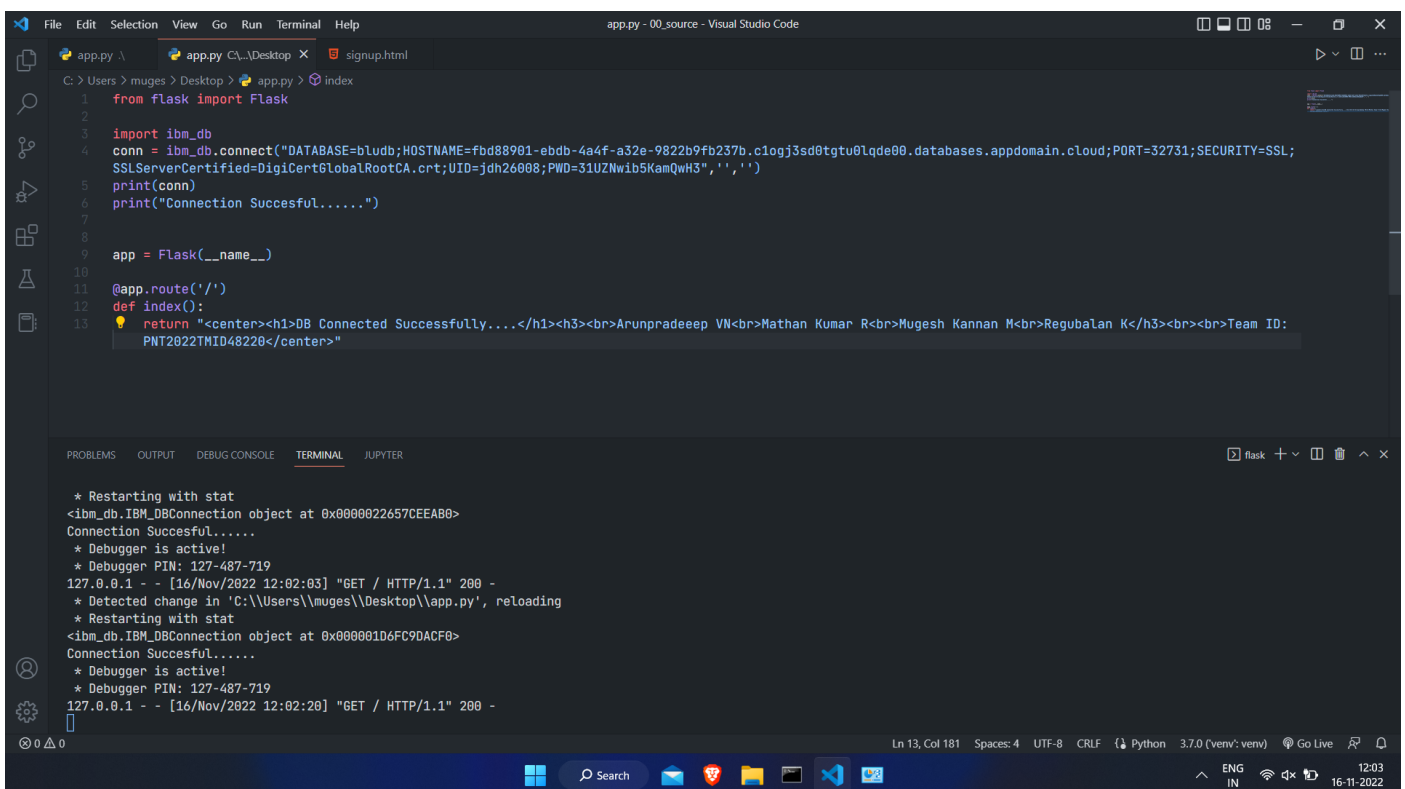
### Creating IBM DB2



The screenshot shows the IBM Cloud console interface. On the left, the 'Resource list' shows a 'Db2-vh' instance in an 'Active' state. The main panel displays the 'Service credentials' for this instance. A 'New credential' button is visible in the top right. Below it, a table lists the credentials, with one entry 'Service credentials-1' created on '2022-11-15 3:45 PM'. The credentials are shown as a JSON object:

```
{
  "connection": {
    "cli": {
      "arguments": [
        "-u",
        "jdh26008",
        "-p",
        "31UZNwib5KamQwH3",
        "--ssl",
        "--sslCAFile",
        "1cbbb1b6-3a1a-4d49-9262-3102a8f7a7c8",
        "--authenticationDatabase",
        "admin",
        "--host",
        "fbd88901-ebdb-4a4f-a32e-9822b9fb237b.clogj3sd0tgtu0lqde00.databases.appdomain.cloud:32731"
      ]
    }
  }
}
```

### Database connection using python



The screenshot shows a Visual Studio Code editor with a Python script named 'app.py'. The script uses the 'ibm\_db' module to connect to an IBM DB2 database. The connection parameters are defined in a dictionary 'conn' and passed to the 'ibm\_db.connect()' function. The script also sets up a Flask web application with a route '/' that returns a success message.

```
from flask import Flask
import ibm_db
conn = ibm_db.connect("DATABASE=b1udb;HOSTNAME=fbd88901-ebdb-4a4f-a32e-9822b9fb237b.clogj3sd0tgtu0lqde00.databases.appdomain.cloud;PORT=32731;SECURITY=SSL;SSLServerCertified=DigiCertGlobalRootCA.crt;UID=jdh26008;PWD=31UZNwib5KamQwH3",'','')
print(conn)
print("Connection Succesful.....")

app = Flask(__name__)

@app.route('/')
def index():
    return "<center><h1>DB Connected Successfully....</h1><h3><br>Arunpradeep VN<br>Mathan Kumar R<br>Mugesh Kannan M<br>Regubalan K</h3><br><br>Team ID: PNT2022TMID48220</center>"
```

The terminal output shows the script running successfully, displaying the connection object and the success message.

## Output: Connection Successful

