

# IMPLEMENTING WEB APPLICATION

## CREATE IBM BD2 AND CONNECT WITH PYTHON

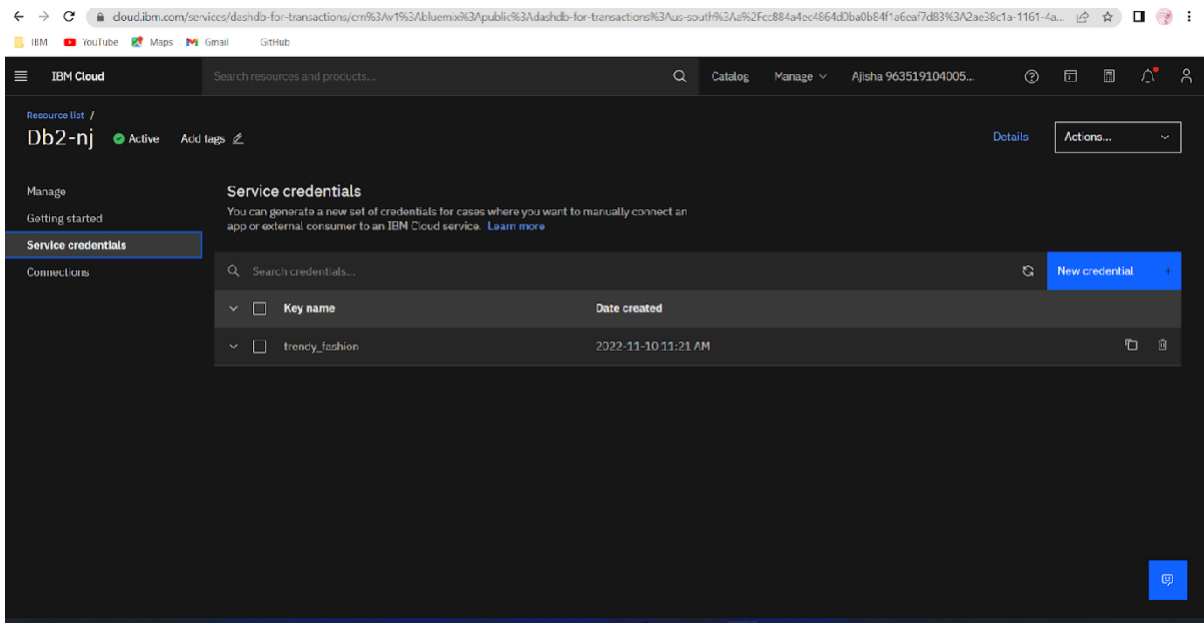
TEAM ID	PNT2022TMID02772
PROJECT NAME	Smart Fashion Recommender Application

### Create IBM DB2:

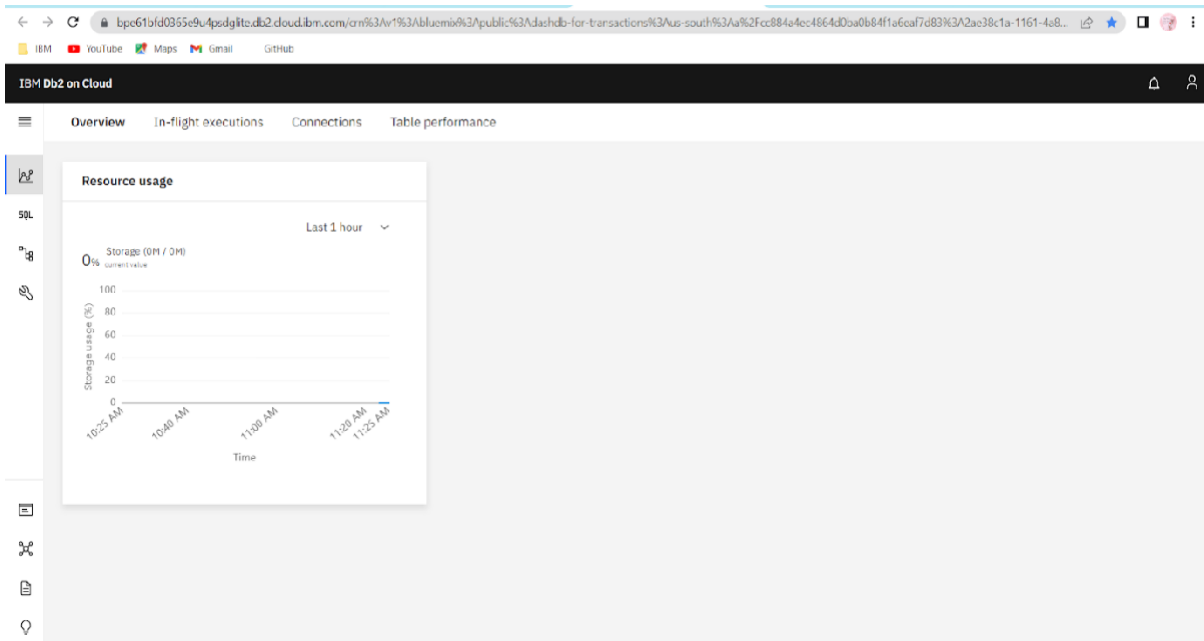
The screenshot shows the IBM Cloud console's 'Create' wizard for IBM Db2. The 'Select a location' dropdown is set to 'Dallas (us-south)'. The 'Select a pricing plan' section shows the 'Lite' plan selected, which is free. The 'Summary' panel on the right shows the service name 'Db2-35' and the resource group 'Default'.

The screenshot shows the IBM Cloud console's 'Getting started' page for the newly created IBM Db2 instance. The page provides instructions on how to find credentials and connect to the database. The 'Go to UI' button is highlighted.

Access Service Credential database from Python. click on the NewCredentials button to generate Service Credentials for your IBM DB2 Database:



Overview of IBM BD2 on Cloud:



## Download the python library IBM db.

```
Windows PowerShell
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Install the latest PowerShell for new features and improvements! https://aka.ms/PSWindows

PS C:\Projects\smart fashion recommender application> python -m pip install -U wheel setuptools
Requirement already satisfied: wheel in c:\users\hp\appdata\local\programs\python\python311\lib\site-packages (0.38.4)
Requirement already satisfied: setuptools in c:\users\hp\appdata\local\programs\python\python311\lib\site-packages (65.5.1)
PS C:\Projects\smart fashion recommender application> python setup.py sdist bdist_wheel
C:\Users\hp\AppData\Local\Programs\Python\Python311\python.exe: can't open file 'C:\Projects\smart fashion recommender application\setup.py': [Errno 2] N
o such file or directory
PS C:\Projects\smart fashion recommender application> pip install wheel
Requirement already satisfied: wheel in c:\users\hp\appdata\local\programs\python\python311\lib\site-packages (0.38.4)
PS C:\Projects\smart fashion recommender application> python -m pip install build
Collecting build
  Downloading build-0.9.0-py3-none-any.whl (17 kB)
Collecting packaging>=19.0
  Downloading packaging-21.3-py3-none-any.whl (40 kB)
Collecting pep517>=0.9.1
  Downloading pep517-0.13.0-py3-none-any.whl (18 kB)
Requirement already satisfied: colorama in c:\users\hp\appdata\local\programs\python\python311\lib\site-packages (from build) (0.4.6)
Collecting pyparsing!>=3.0.5,>=2.0.2
  Downloading pyparsing-3.0.9-py3-none-any.whl (98 kB)
Installing collected packages: pyparsing, pep517, packaging, build
Successfully installed build-0.9.0 packaging-21.3 pep517-0.13.0 pyparsing-3.0.9
PS C:\Projects\smart fashion recommender application> python -m build --wheel
ERROR Source C:\Projects\smart fashion recommender application does not appear to be a Python project: no pyproject.toml or setup.py
PS C:\Projects\smart fashion recommender application> python setup.py sdist bdist_wheel
running sdist
running egg_info
creating mypackage.egg-info
writing mypackage.egg-info/PKG-INFO
writing dependency_links to mypackage.egg-info/dependency_links.txt
writing requirements to mypackage.egg-info/requirements.txt
writing top-level names to mypackage.egg-info/top_level.txt
writing manifest file 'mypackage.egg-info\SOURCES.txt'
reading manifest file 'mypackage.egg-info\SOURCES.txt'
writing manifest file 'mypackage.egg-info\SOURCES.txt'
```

## IBM DB2 with python:

```
db.html - smart fashion recommender application - Visual Studio Code

EXPLORER
  SMART ...
    > build
    > dist
    > images
    > mypackage.egg-info
    > action_page.html
    > db.html
    > get_pip.py
    > login.html
    > vuba_test.py
    > privacy.html
    > requirements.txt
    > setup.py
    > signup.html
    > style.css
    > submit.html
    > trends.html
    > view.html

db.html
1  import ibm_db
2  hostname=""
3  uid=""
4  pwd=""
5  driver="IBM DB2 ODBC DRIVER"
6  db="bludb"
7  port=""
8  protocol="tcpip"
9  cert="certificate.crt"
10 dsn=""
11 "DATABASE={0};".format(db,hostname,port,uid,cert,pwd)print(dsn)
12 "HOSTNAME={1};".format(db,hostname,port,uid,cert,pwd)print(dsn)
13 "PORT={2};".format(db,hostname,port,uid,cert,pwd)print(dsn)
14 "UID={3};".format(db,hostname,port,uid,cert,pwd)print(dsn)
15 "SECURITY=SSL;".format(db,hostname,port,uid,cert,pwd)print(dsn)
16 "SSLServerCertificate={4};".format(db,hostname,port,uid,cert,pwd)print(dsn)
17 "PWD={5};".format(db,hostname,port,uid,cert,pwd)print(dsn)
18 ).format(db,hostname,port,uid,cert,pwd)print(dsn)
19 try:
20     db2-ibm_db.connect(dsn,"", "")
21     print("connected to data base")
22 except:
23     print("Unable to connect",ibm_c
```