

IMPLEMENTING WEB APPLICATION

CREATE IBM DB2 AND CONNECT WITH PYTHON

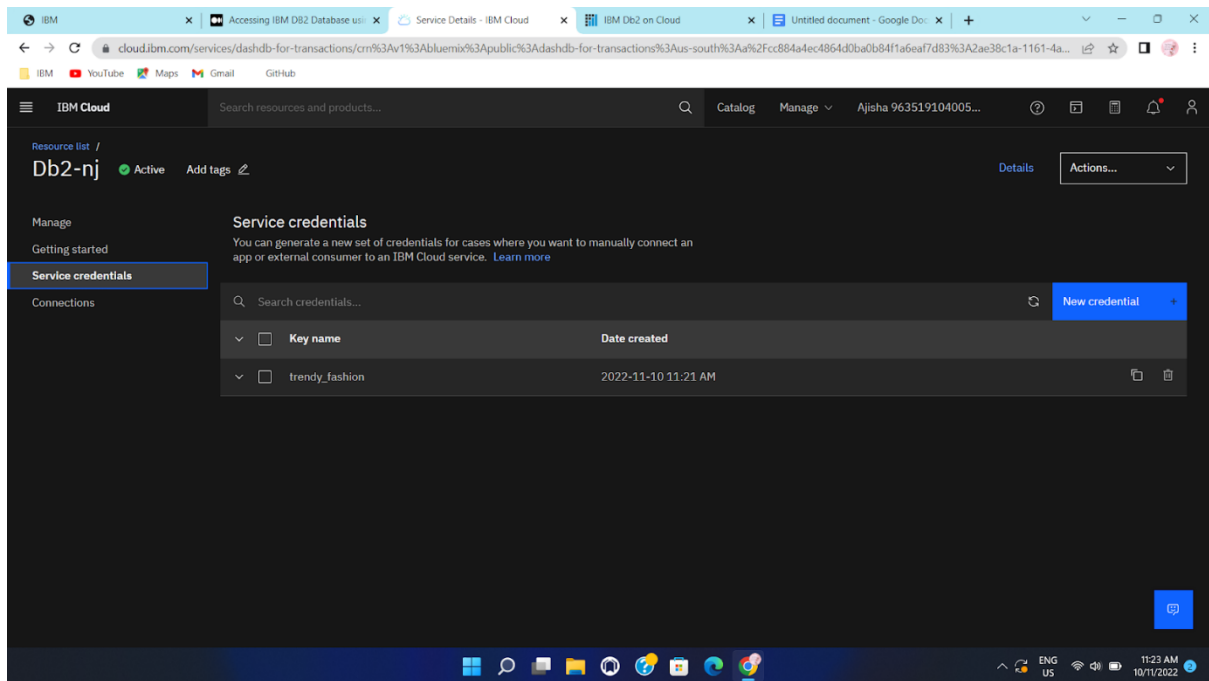
TEAM ID	PNT2022TMID52257
PROJECT NAME	Smart Fashion Recommender Application

Create IBM DB2:

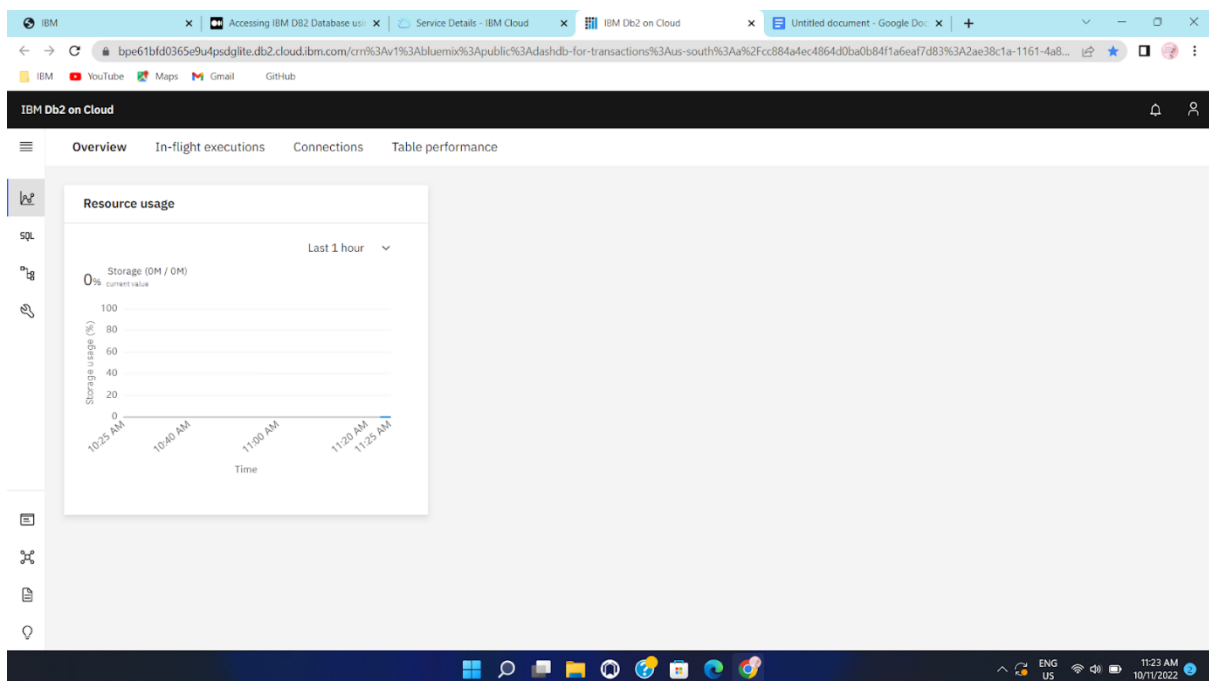
IBM Cloud console showing the 'Create' page for IBM Db2. The page is in the 'Create' tab, showing a 'Select a location' dropdown set to 'Dallas (us-south)'. Below this is a 'Select a pricing plan' section with a table of plans. The 'Lite' plan is selected, showing '200 MB of data storage', '5 simultaneous connections', and 'Shared multitenant system'. The 'Standard' plan is also visible, showing 'Instance with flexible scaling of compute and storage'. A 'Summary' panel on the right shows 'Db2', 'Location: Dallas', 'Plan: Lite', 'Service name: Db2-35', and 'Resource group: Default'. A 'Create' button is at the bottom right.

IBM Cloud console showing the 'Manage' page for IBM Db2. The page is in the 'Manage' tab, showing a 'Getting started' section with instructions on how to find credentials. The 'Need help?' section is also visible, showing a 'Support case' button. The 'Resource list' on the left shows 'Db2-nj' with a status of 'Active'.

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



Overview of IBM BD2 on Cloud:



Download the python library IBM db.

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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] No 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)
    40.8/40.8 kB 277.4 kB/s eta 0:00:00
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)
    98.3/98.3 kB 704.8 kB/s eta 0:00:00
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\requires.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
> build
> dist
> Images
> mypackage.egg-info
  action_page.html
  db.html
  get-pip.py
  login.html
  odbc_test.py
  privacy.html
  requirements.txt
  setup.py
  signup.html
  style.css
  submit.html
  terms.html
  view1.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};"
12     "HOSTNAME={1};"
13     "PORT={2};"
14     "UID={3};"
15     "SECURITY=SSL;"
16     "SSLServerCertificate={4};"
17     "PWD={5};"
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_d
```