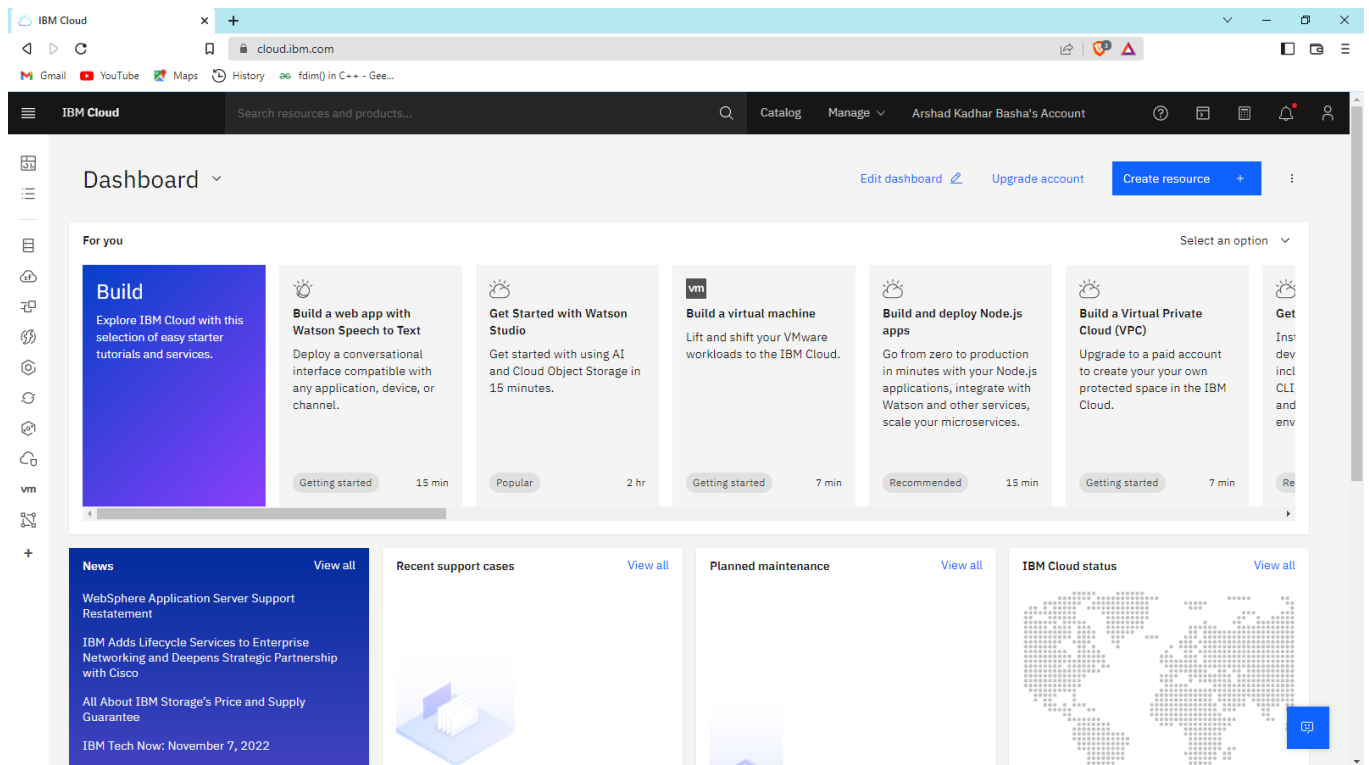


# IMPLEMENTING WEB APPLICATION

<b>Date</b>	7 November, 2022
<b>Team ID</b>	PNT2022TMID00943
<b>Project Name</b>	Plasma Donor Application

## Create IBM DB2 and Connect with Python

❖ Login to IBM Cloud Account



## ❖ Search for IBM DB2 and Create a DB2 service

The screenshot shows the IBM Cloud dashboard with a search bar at the top. The search results for 'db2' are displayed in a dropdown menu. The results include:

- Db2 Service
- Db2 Warehouse Service
- SAP NetWeaver(ABAP stack) with DB2 standard system Software

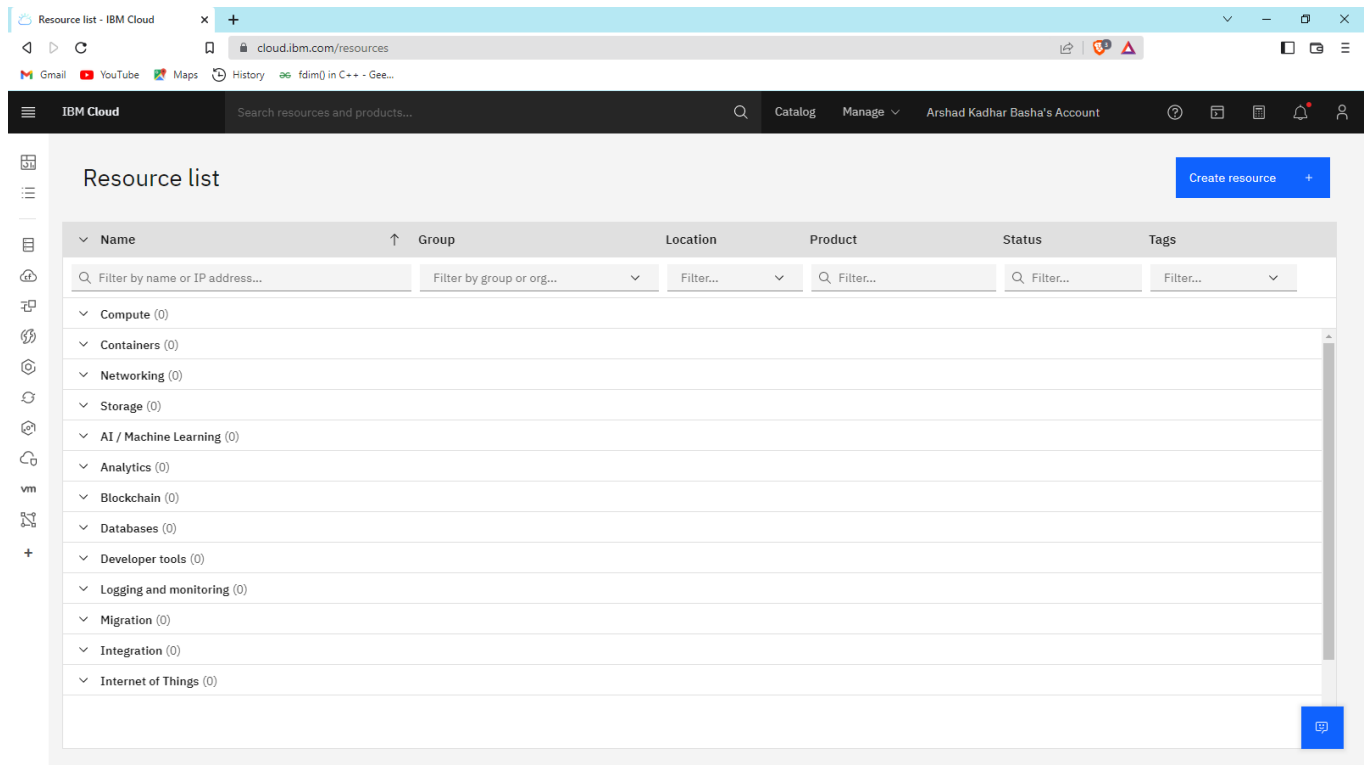
Below the search results, there are links to 'Search "db2" in Support Cases' and 'Search "db2" in Docs'. The dashboard also features a 'Build' section with various templates and a 'Catalog' section with various services.

The screenshot shows the IBM Cloud catalog page for the Db2 service. The page includes a 'Create' button and a 'Select a location' dropdown menu. The 'Select a pricing plan' section displays a table with pricing information for different plans.

Plan	Features	Pricing
Lite	200 MB of data storage 5 simultaneous connections Shared multitenant system	Free
Standard	Instance with flexible scaling of compute and storage Base instance starts at 8 GB RAM x 20 GB Storage	\$0.136 USD/Instance-Hour \$0.00027 USD/Gigabyte-Hours \$0.097 USD/Virtual Processor Core-Hour \$0.00003 USD/BACKUP_GIGABYTE_HOURS \$0.0959 USD/SERVICEENDPOINT_INSTANCE_HOURS

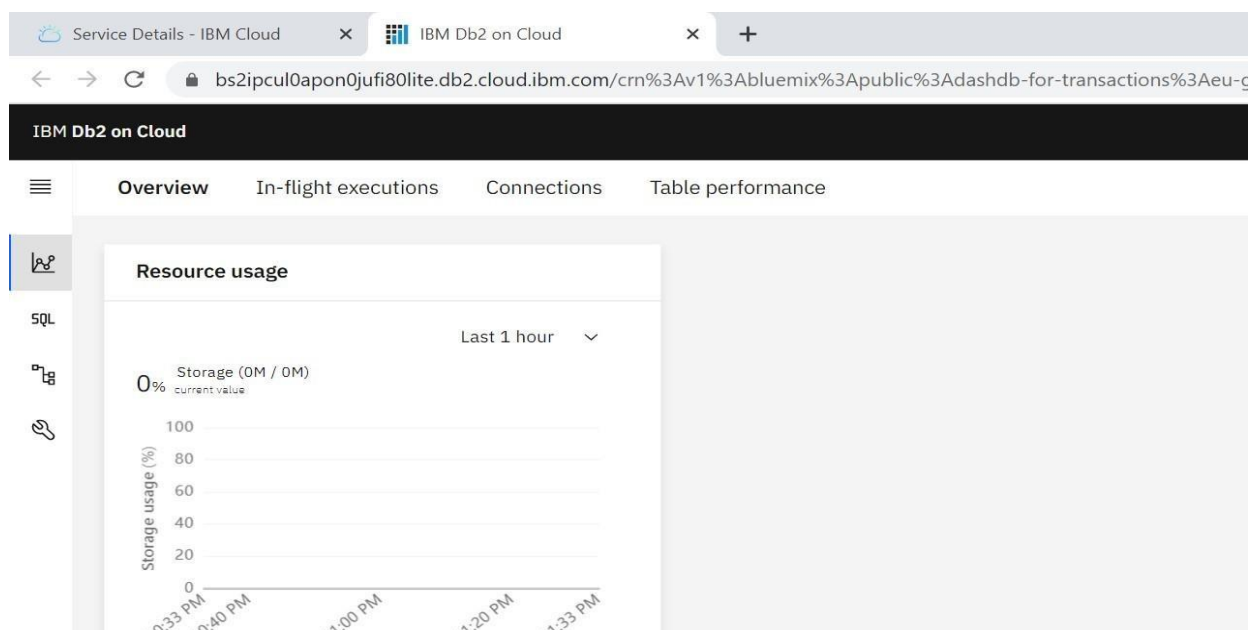
The 'Summary' section on the right provides details about the service, including location, plan, service name, and resource group. A warning message indicates that the selected plan cannot be added to an IBM Cloud trial account.

## ❖ Go to Resources and select IBM db2



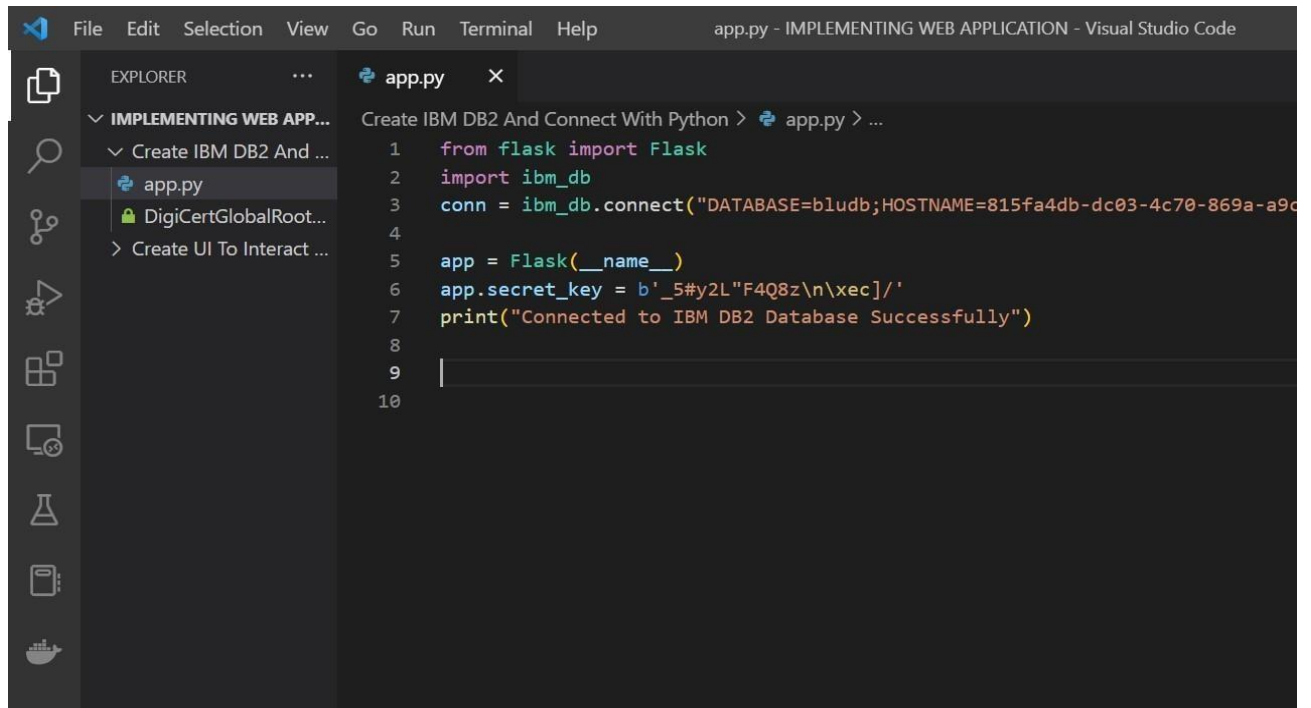
The screenshot shows the IBM Cloud 'Resource list' page. The browser address bar displays 'cloud.ibm.com/resources'. The page header includes the IBM Cloud logo, a search bar, and navigation links for 'Catalog', 'Manage', and the user account 'Arshad Kadhar Basha's Account'. The main content area is titled 'Resource list' and features a 'Create resource' button. Below the title is a table with columns: Name, Group, Location, Product, Status, and Tags. The 'Name' column has a search filter. The table lists various resource categories, each with a count in parentheses: Compute (0), Containers (0), Networking (0), Storage (0), AI / Machine Learning (0), Analytics (0), Blockchain (0), Databases (0), Developer tools (0), Logging and monitoring (0), Migration (0), Integration (0), and Internet of Things (0). A sidebar on the left contains icons for different resource types, and a blue chat icon is in the bottom right corner.

## ❖ Create New Service credentials and Go to UI



The screenshot shows the 'Service Details - IBM Cloud' page for 'IBM Db2 on Cloud'. The browser address bar shows the URL 'bs2ipcul0apon0jufi80lite.db2.cloud.ibm.com/crn%3Av1%3Abluemix%3Apublic%3Adashdb-for-transactions%3Aeu-g'. The page has a dark header with the title 'IBM Db2 on Cloud'. Below the header is a navigation bar with tabs: 'Overview', 'In-flight executions', 'Connections', and 'Table performance'. The 'Overview' tab is selected. On the left, there is a sidebar with icons for 'SQL', 'DB', and 'Tools'. The main content area is titled 'Resource usage' and shows a line graph for 'Storage (0M / 0M)' over the 'Last 1 hour'. The y-axis is labeled 'Storage usage (%)' and ranges from 0 to 100. The x-axis shows time intervals from 12:33 PM to 1:33 PM. The graph shows a flat line at 0% usage.

❖ Paste those credentials in the python code

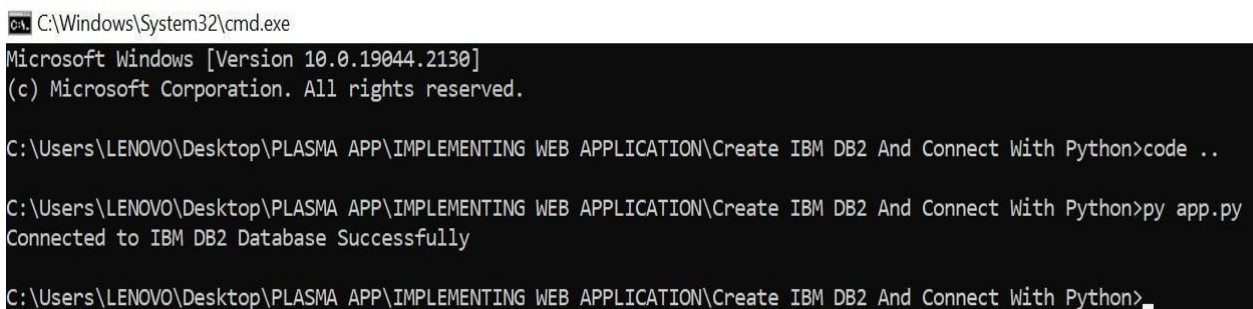


```
File Edit Selection View Go Run Terminal Help app.py - IMPLEMENTING WEB APPLICATION - Visual Studio Code

EXPLORER
  IMPLEMENTING WEB APP...
    Create IBM DB2 And ...
      app.py
      DigiCertGlobalRoot...
    > Create UI To Interact ...

app.py
1  from flask import Flask
2  import ibm_db
3  conn = ibm_db.connect("DATABASE=bludb;HOSTNAME=815fa4db-dc03-4c70-869a-a9c
4
5  app = Flask(__name__)
6  app.secret_key = b'_5#y2L"F4Q8z\n\xec]/'
7  print("Connected to IBM DB2 Database Successfully")
8
9
10
```

❖ Run the python code in cmd



```
C:\Windows\System32\cmd.exe
Microsoft Windows [Version 10.0.19044.2130]
(c) Microsoft Corporation. All rights reserved.

C:\Users\LENOVO\Desktop\PLASMA APP\IMPLEMENTING WEB APPLICATION\Create IBM DB2 And Connect With Python>code ..

C:\Users\LENOVO\Desktop\PLASMA APP\IMPLEMENTING WEB APPLICATION\Create IBM DB2 And Connect With Python>py app.py
Connected to IBM DB2 Database Successfully

C:\Users\LENOVO\Desktop\PLASMA APP\IMPLEMENTING WEB APPLICATION\Create IBM DB2 And Connect With Python>_
```