STEPS TO CREATE IBM DB2 AND CONNECTION WITH

PYTHON

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Date	17 November 2022

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 = "6667d8e9-9d4d-4ccb-ba32-
21da3bb5aafc.c1ogj3sd0tgtu0lqde00.databases.appdomain.cloud"
```

```
dsn_uid = "qrk32788" dsn_pwd = "WbDRO7ez2reEu40k"
```
dsn_driver = "{IBM DB2 ODBC DRIVER}" dsn_database = "BLUDB"

e.g. "BLUDB" dsn_port = "30376" # 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};"

```python
"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 database try:

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)