STEPS TO CREATE IBM DB2 AND CONNECTION WITH PYTHON
TEAM ID: PNT2022TMID06519

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 = "2d46b6b4-cbf6-40eb-bbce-6251e6ba0300.bs2io90l08kqb1od8lcg.databases.appdomain.c

loud" dsn_uid = "vjd29721" dsn_pwd =

"6TTgx8MRBzT45o3q" dsn_driver = "{IBM DB2 ODBC

DRIVER}" dsn_database = "BLUDB" # e.g. "BLUDB"

dsn_port = "32328"   # 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};"
  "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() )
```

```python
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:

```python
ibm_db.close(conn)
```