

STEPS TO CREATE IBM DB2 AND CONNECTION WITH PYTHON

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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.cloud  
"  
dsn_uid = "mnfrk567"    dsn_pwd = "7RRvb9RDCoZ78j9l"  
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() )
```

```
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)
```