# STEPS TO CREATE IBM DB2 AND CONNECTION WITH PYTHON

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## *STEPS*

- Importing the IBM_DB Python library
- Identifying the database connection credentials
- Creating the DB2 database connection
- Closing the Connection

**STEP 1:**

**Import the ibm_db Python library:**

!pip install --force-reinstall ibm_db==3.1.0 ibm_db_sa==0.3.7

importibm_db

**STEP 2:**

**Identify the database connection credentials:**

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

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

databasetry:

```
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(connect)
```