

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.bs2io90108kqb1od8lcg.databases.appdomain.cloud"  
  
dsn_uid = "rvl70320"      dsn_pwd = "RMAKYfhFtGdyfFMY"  
  
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)
```

