

Create IBM DB2 and Connect With Python

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Import the IBM DB Python library:

```
import ibm_db
```

Identify the database connection credentials:

```
dsn_hostname="1bbf73c5-d84a-4bb0-85b9-ab1a4348f4a4.c3n41cmd0nqnrk39u98g.databases.appdomain.cloud"
```

```
dsn_uid="913119106010@smartinternz.com"
```

```
dsn_pwd="PNTIBMRn7"
```

```
dsn_driver="{IBM DB2 ODBC DRIVER}"
```

```
dsn_database="bludb"
```

```
dsn_port="32286"
```

```
dsn_protocol="TCPIP"
```

Create the DB2 database connection:

```
dsn=(
```

```
    "DRIVER={0};"
```

```
    "DATABASE={1};"
```

```
    "HOSTNAME={2};"
```

```
    "PORT={3};"
```

```
    "PROTOCOL={4};"
```

```
    "UID={5};"
```

```
    "PWD={6};"
```

```
).
```

```
format(dsn_driver,dsn_database,dsn_hostname
```

```
,dsn_port,dsn_protocol,dsn_uid,dsn_pwd)
```

```
print(dsn)
```

Establishing Connection:

```
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())
```

Verification:

```
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)
```

Close the Connection:

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

