Create IBM DB2 and Connect with Python

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Project	Containment Zone Alerting Application

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 = "fbd88901-ebdb-4a4f-a32e-
9822b9fb237b.c1ogj3sd0tgtu0lqde00.databases.appdomain.cloud"

dsn_uid = "hfg03206"

dsn_pwd "SoqyYdwRvABV6G5a"

dsn_driver = "{IBM DB2 ODBC DRIVER}"

dsn_database = "BLUDB"

# e.g. "BLUDB" dsn_port = " 32731" # 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

```
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)
```

STEP 5:

Thus the IBM DB2 is created and connected with python.