For Python 3.2: Python to EXE Manual (Including ODBC connections and SQL query)

In order to convert a python script that utilizes ODBC drivers into an executable, a few utilities will be required.

First, to utilize ODBC drivers in Python 3.2, install the most recent version of pyodbc. More information regarding how pyodbc can be use are located at: <http://code.google.com/p/pyodbc/wiki/GettingStarted> and <http://code.google.com/p/pyodbc/wiki/ConnectionStrings>

In the simple SQL.py script provided, it displays how the pyodbc lib is imported, configured, and a cursor is created to execute a query and display the result.

<begin SQL.py>

import pyodbc

conn = pyodbc.connect('DRIVER={SQL Server};SERVER=CSVSERVER1\SQL05;DATABASE=SBCFIRE;UID=X;PWD=X')

cursor = conn.cursor()

cursor.execute("select max(version) from dba.sys\_version")

row = cursor.fetchall()

print (row)

<end SQL.py>

Note: replace X for UID and PWD with the actual credentials.

After the python script is created, we want to convert it to an executable using cx-freeze (cx-freeze.sourceforge.net). Get the latest version for Python 3.2 and install it accordingly.

One thing to verify after cx-freeze installation completes, browse to your python install directory (e.g., C:\Python32\) and navigate to the 'scripts' folder. Within scripts, there will be cxfreeze.bat. Edit that file and ensure the directory it is pointing to reflects the directory for your Python 3.2 installation.

Next, to compile the python script into an executable, the following command will be invoked:

cxfreeze --target-dir=cxTest --include-modules=decimal C:\Python32\SQL.py

Few notes regarding this command: First, ensure you are in the Python install directory\scripts folder. Second, the --target-dir value is where the complied application will be. And third, --include-modules=decimal is necessary otherwise an exception will occur during the compiling process (related to the ODBC driver string in the script).

Once that command completes successfully, the cxTest directory will be created with the executable and all the components necessary to launch it.

Note: 1 KB Python script = 15.7 MB (979 files, 33 folders)

Reminder: Verify that the cxfreeze.bat in the Python Install Directory\scripts\ is pointing to the proper directories

Test – Quick update to see results in GitHub.