CREATE IBM DB2 AND CONNECT WITH PYTHON

Summary

The IBM i platform has added Open Source Packages to the system to allow developers to run common open source software on their system.

This document is a simple example of installing Python and using it to query Db2 for i. It is loosely excerpted from "Breaking out of PASE: Accessing the rest of your IBM i from Python"

Environment

While the ACS product contains the functionality to allow IBM i administrators to easily install open source software on their systems, the open source software itself is beyond the scope of a Support Line contract. Please see Open Source Support for IBM i.

Steps

- 1) Install IBM <u>i Access Client Solutions</u> on a client PC and configure a connection to an IBM i system.
- 2) Within the ACS console, access the "Tools" pull-down and select "Open Source Package Management"
- 3) Install packages python3; python3-pip; python3-ibm_db; and python3-itoolkit . If no open source packages have been installed on your system, the installation of these packages will likely pull in additional prerequisite packages.
- 4) From the ACS console, open an SSH Terminal to the same IBM i.
- 5) Install the PrettyTable python library: \$ pip3 install PTable
- 6) Create a file with an extension of ".py" and use a text editor to add the following source code

```
from prettytable import from_db_cursor_import_ibm_db_dbi as db2_conn = db2_connect() cur = conn.cursor()
cur.execute("select * from qiws.qcustcdt") print(from_db_cursor(cur))
```

Output:

marquis@MyIBMi:~/scripts\$ python3 kpretty.py									
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