



Rocket[®] Data Virtualization

Version 2.1

Getting Started Guide

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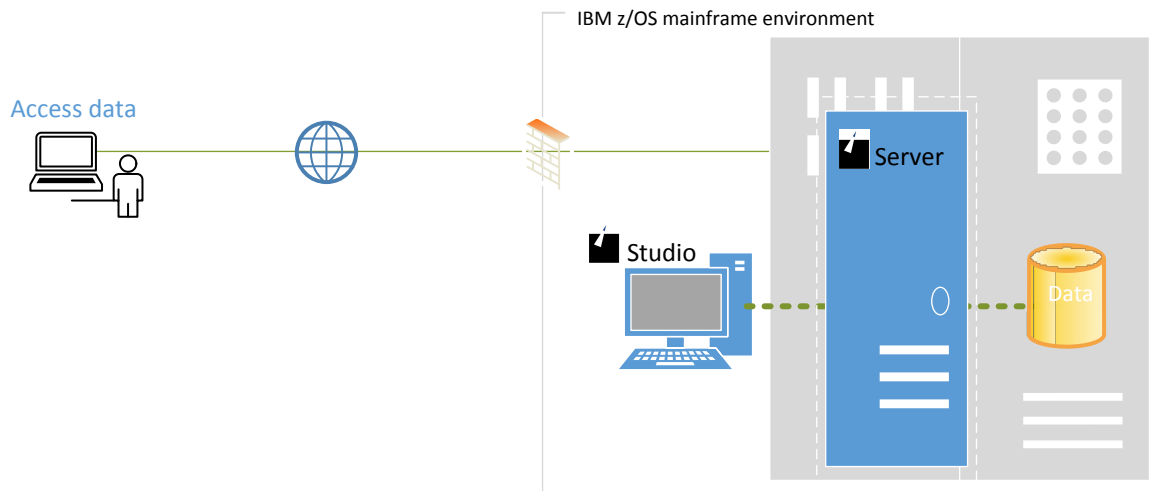
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Getting started

Use Rocket Data Virtualization (Rocket DV) to securely connect to and access data from your z/OS mainframe environment.

This guide is intended to help System and Database Administrators understand the tasks associated with implementing Rocket DV within your existing environment. The following illustration shows the basic Rocket DV architecture, when implemented in a z/OS mainframe environment.



Before you begin, you must first download all required Rocket DV components as instructed. This information was provided in the registration confirmation email that was sent to you.

Task 1: Install and configure the Rocket DV server

About this task

Installing and configuring the Rocket DV server requires that you complete the procedure that follows.

Note: For task details, see the *Rocket Data Virtualization Installation Guide* in the Rocket Documentation Library: <http://docs.rocketsoftware.com/>.

Procedure

1. After you download the `DVSPac.bin` file, move the file to your z/OS mainframe system.
2. Modify the `UNPACK` job to conform to your data set naming conventions.
3. Run the `UNPACK` job to unarchive the `DVSPac.bin` file and create the installation library.
4. In the `hlq.SDVSBIN(DVSBIN)` data set, run the `INSTPAC` member to create the libraries and the complete SMP/E environment to match the installed libraries.

Next step

Verify that the data sets were successfully created, and then install the drivers.

Task 2: Install the drivers

About this task

Rocket Data Virtualization supports the following drivers:

- JDBC
- ODBC
- MongoDB

Note: For task details, see the *Rocket Data Virtualization Drivers Guide* in the Rocket Documentation Library: <http://docs.rocketsoftware.com/>.

Install the JDBC driver

Java-based applications and tools use the JDBC driver to access mainframe data that is made available through Rocket DV.

Procedure

1. On your local development machine, create a directory.
2. Unzip the `JDBC 3.1.zip` file into that directory.

Install the ODBC driver

For non-Java based applications and tools, use the ODBC driver to access mainframe data that is made available through Rocket DV.

Procedure

1. Unzip the `ODBC 3.1 win32.zip` file to a directory on your development machine.
2. Locate, and then run the ODBC installer.

Install the MongoDB driver

To access data through Rocket DV using the MongoDB query language, use the MongoDB driver.

Procedure

From the MongoDB website, download the appropriate MongoDB driver.

Next step

Next, install and configure the Rocket DV Studio.

Task 3: Install and configure the Rocket DV Studio

About this task

To install and configure the Rocket DV Studio on your Windows system, complete the procedure that follows.

Note: For task details, see the *Rocket Data Virtualization Installation Guide* in the Rocket Documentation Library: <http://docs.rocketsoftware.com/>.

Procedure

1. After downloading the `DV21_Studio.zip` file, create a temporary folder for the Rocket DV Studio installer. For example: `DV21_Studio`.
2. Right-click the `DVS21_Studio.zip` file, and then extract the contents to the new folder.
3. Navigate to the `DVS21_Studio` folder, right-click the `RocketDVStudio_2.1.0.<xxx>_win32.exe` file, and then select **Run as an administrator**.
4. Complete the installation wizard as instructed.
5. **Optional:** To verify that the Studio launches, from the Windows Start menu, select **All Programs** → **Rocket Software** → **Data Virtualization** → **Studio**.
6. **Optional:** Delete the temporary folder that you previously created.

Next step

Next, use the Rocket DV Studio to enable access to your mainframe data.

Task 4: Enable access to your mainframe data

About this task

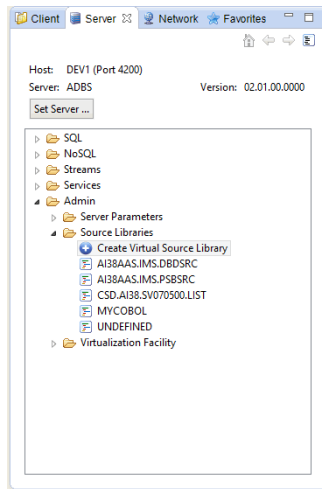
To facilitate SQL or NoSQL access to your mainframe data, use the Rocket DV Studio to create the meta data on the Rocket DV server. The meta data is used to reference source libraries that already exist on your mainframe. To complete the procedure that follows, requires that you have some mainframe systems programming knowledge. For example, to virtualize a VSAM cluster you will need to know the location of the copybook that describes the data layout and additional information, such as the location of the VSAM cluster itself.

Note: For task details, see *Accessing mainframe data* in the *Rocket Data Virtualization Studio User's Guide*. The guide is available from the Rocket Documentation Library: <http://docs.rocketsoftware.com/>.

Procedure

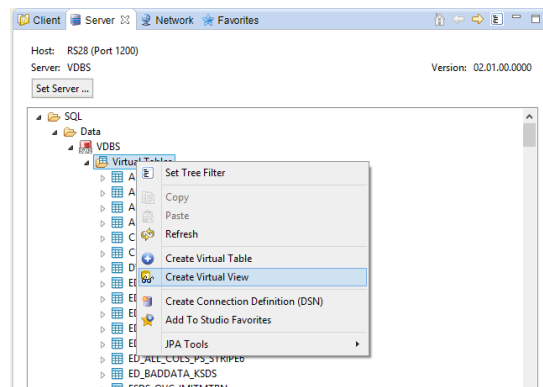
1. Use the Studio to connect to the Rocket DV server.

2. Use the Create Source Library wizard to create virtual source libraries that reference data layouts on the mainframe.

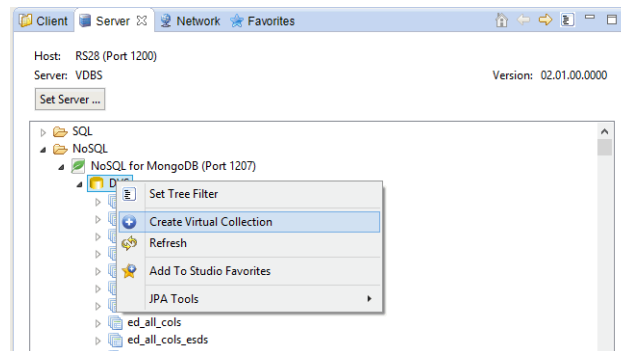


To see how to create a virtual source library, watch this brief video: <https://youtu.be/ZER7AdvEX8Y>

3. Using a member from within a virtual source library, create a virtual representation of the data that you want to access:
 - For SQL access to data, select and run the Virtual Table wizard that is appropriate for the data that you want to access.



- For NoSQL access to data, select and run the Virtual Collection wizard that is appropriate for the data that you want to access.



- To see how to use the Rocket DV JDBC driver to get SQL access to your VSAM mainframe data, watch this brief video: <https://youtu.be/00dfuW5y9IM>
- To see how you can use the MongoDB driver to get access to your mainframe data, watch this brief video: <https://youtu.be/ECu2Hh43-MM>

Next step

Using a virtual table or virtual collection, you can now generate the code that is used to access the data on the mainframe.

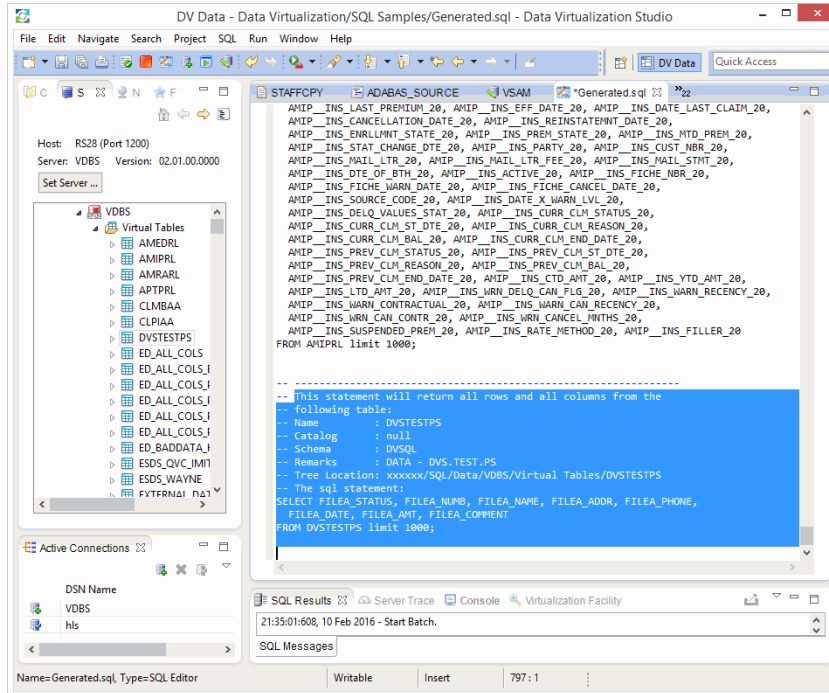
Task 5: Generate the sample code

Use the Studio to generate the sample code for SQL or NoSQL access to your data on the mainframe.

Note: For task details, see the *Rocket Data User's Guide* in the Rocket Documentation Library: <http://docs.rocketsoftware.com/>.

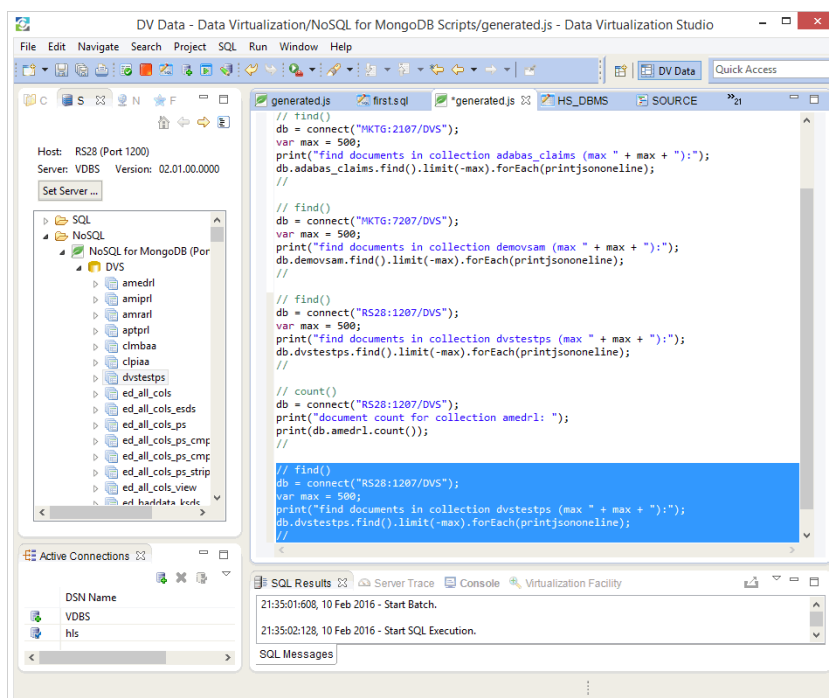
Generate the code for SQL access to your data

Select the virtual table, then select to generate the SQL code. You can also create a sample JDBC application using the Generate SQL Code wizard. The resulting SQL query displays on the generated.sql tab. For example:



Generate the code for NoSQL access to your data

Right-click on the virtual collection, and then choose to generate the JavaScript code. The resulting JavaScript code displays on the generated.js tab.



You can now use the generated code with your programs and tools.

Need help?

If you have any questions or would like assistance with this install, you can contact Rocket Data Technical Support:

- Send email from <https://support.rocketsoftware.com/rsp-portal/forms/emailSupport>.
- Visit our support site at <mailto:support@rocketsoftware.com>.
- Call us toll-free at 1-855-577-4323.