



Denodo SSH Custom Wrapper

Revision 20240119

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2 INTRODUCTION

ssh-customwrapper is a Virtual DataPort custom wrapper which uses the secure shell protocol to connect to a remote computer and execute a command.

3 SSH CUSTOM WRAPPER

Implemented by class `com.denodo.connect.ssh.SSHWrapper`.

The data source created from the SSHWrapper need the following **mandatory** parameters:

- Host: Name of the remote machine or its IP address.
- Port: Port number to connect to the remote machine, default is 22.
- User: Username to log into the remote machine.


One **optional** parameter:


- Connection timeout: Amount of time, in milliseconds, that the wrapper will wait for the SSH command to complete. Configure a value of 0 or leave the box blank to wait indefinitely.

There are also two parameters that are **mutually exclusive**:

- Password: Password associated with the username.
- Key file: Key file created with PuTTY key file generator.
 - Passphrase: Passphrase associated with the key file.

Input parameters of the data source

Click to refresh the input parameters of the data source 

Host:	<input type="text" value="192.168.1.193"/>
Port:	<input type="text" value="22"/>
User:	<input type="text" value="admin"/>
Password:	<input type="password" value="•••••"/>
Key file:	<input type="text" value="None"/>  <input type="button" value="Configure"/>
Passphrase:	<input type="text"/>
Connection timeout:	<input type="text"/>

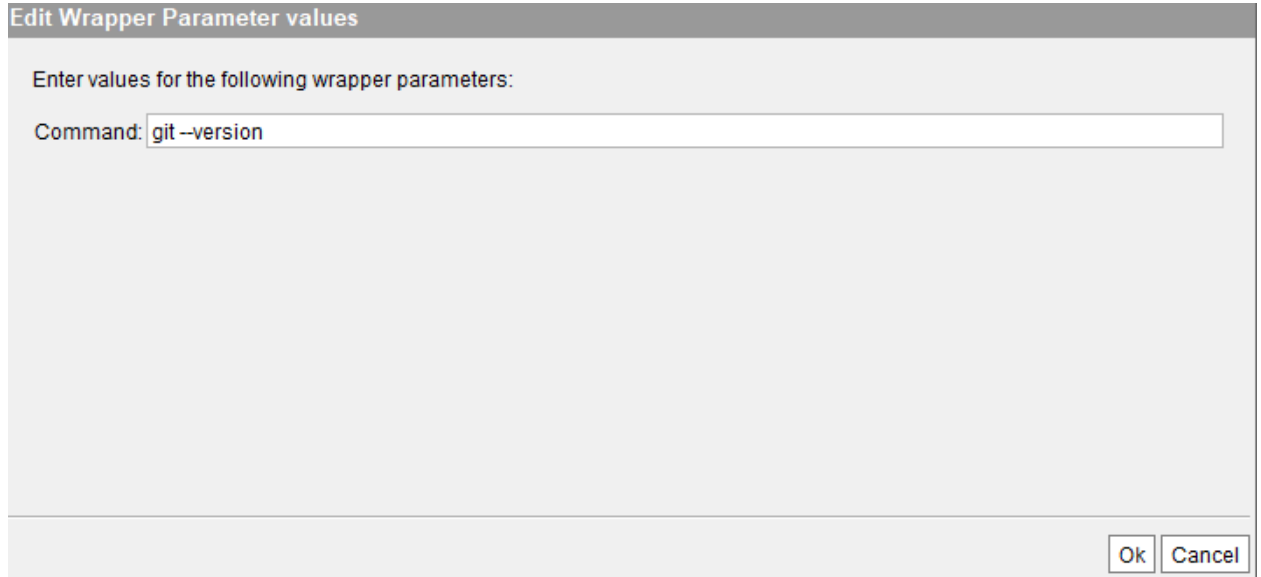
Parameters of the data source

3.1 CREATING A BASE VIEW

Once the custom wrapper has been registered, we will be asked by VDP to create a base view for it.

Base views created from the SSHWrapper need the following parameter:

- **Command:** Command to run on the remote machine after the connection has been established.



The base views created from the SSHWrapper have the following schema:

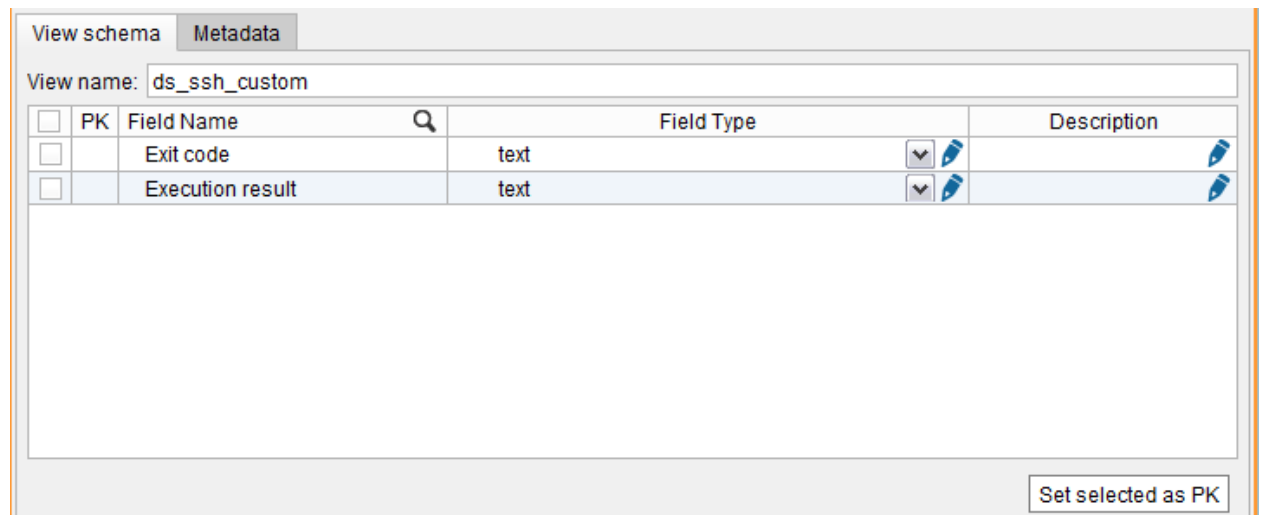
- **Exit code:** The return value of the command. Exit code is used to check the result (success/failure) of the execution of the command. If the exit status is zero, then the command is success.

Exit Value	Exit Status
0	Success
Non-zero	Failure
2	Incorrect usage
126	Not an executable
127	Command not found

Tip for **exit value 127**: Make sure that ssh-customwrapper can find the command on the remote server. You may need to add path to the command to PATH environment variable. Also make sure that the startup script that sets

PATH is actually executed for non-interactive sessions.

- Execution result: The result of the command execution. Shows the process stdout when the command is successful, otherwise shows the process stderr.



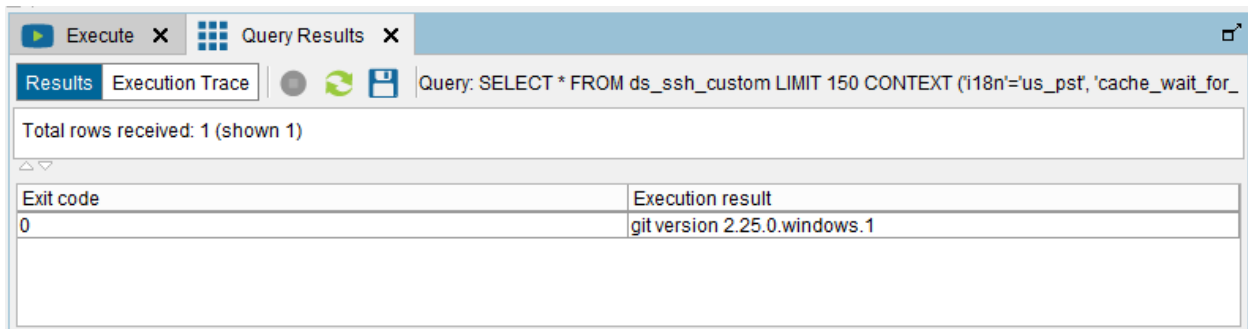
The screenshot shows the 'Metadata' tab for a view named 'ds_ssh_custom'. It displays a table with the following columns: PK, Field Name, Field Type, and Description. There are two rows of data:

PK	Field Name	Field Type	Description
	Exit code	text	
	Execution result	text	

At the bottom right of the interface, there is a button labeled 'Set selected as PK'.

View schema

The execution of the wrapper returns the result of the command execution.



The screenshot shows the 'Query Results' window with the following details:

- Query: `SELECT * FROM ds_ssh_custom LIMIT 150 CONTEXT ('i18n'='us_pst', 'cache_wait_for_...`
- Total rows received: 1 (shown 1)

Exit code	Execution result
0	git version 2.25.0.windows.1

View results

For security reasons, the use of root user is not recommended. You can disable remote root login if your system allow it. It is also not recommended to execute any command that may cause inastability in the remote server.