

Using Windows Authentication for Microsoft SQL Server 2019

Environment:-

- Both Joget DX 7 and MSSQL 2019 are installed in the same Windows 10 operating system.
- Joget DX 7 uses "mssql-jdbc version 9.4.0.jre8" JDBC driver.

Steps:-

1. We will need to first obtain the "mssql-jdbc_auth-9.4.0.x64.dll" file needed for integrated authentication. Since Joget DX 7.0.24, MSSQL JDBC driver version 9.4.0.jre8 is shipped by default, therefore it is advisable to use the dll file of the same version. Download from the direct link https://github.com/microsoft/mssql-jdbc/releases/download/v9.4.0/mssql-jdbc_auth.zip
2. Unzip, and find "x64\mssql-jdbc_auth-9.4.0.x64.dll". Place it into a location accessible by Joget, i.e. "C:\Joget-DX7-Enterprise\wflow\library"
3. Edit "joget-start.bat" and append "-Djava.library.path=~/wflow/library" into JAVA_OPTS.

Your joget-start.bat may look like this now. (Line 12)

Please take note that line "javaagent:~/wflow/flowroot/flowroot.jar" must be placed at the end too.

joget-start.bat

```
@ECHO OFF

REM Start MariaDB
ECHO == Starting MariaDB ==
ECHO.
CALL .\mariadb-start.bat
ECHO.

REM Start Tomcat
set JAVA_HOME=.\jre11.0.2
set CATALINA_HOME=.\apache-tomcat-8.5.65
set JAVA_OPTS=-Xmx768M -Dwflow.home=~/wflow/ -javaagent:~/wflow/aspectjweaver-1.8.5.jar -Djava.library.path=~/wflow/library -javaagent:~/wflow/flowroot/flowroot.jar
REM set JAVA_OPTS=-XX:MaxPermSize=128m -Xmx1024M -Xdebug -Xnoagent -Djava.compiler=NONE -Xrunjwdp:transport=dt_socket,suspend=n,server=y,address=5115 -Dwflow.home=~/wflow/ -javaagent:~/wflow/aspectjweaver-1.8.5.jar -javaagent:~/wflow/flowroot/flowroot.jar
ECHO == Starting Tomcat from %CATALINA_HOME% ==
ECHO.
%CATALINA_HOME%\bin\catalina.bat run
```

Note: If your Joget server runs as Windows service, then you will need to launch tomcat8w.exe to configure JAVA_OPTS variable accordingly.

4. Create a new datasource profile file inside the "wflow" folder.

Here's sample content.

app_datasource-mssql.properties

```
workflowDriver=com.microsoft.sqlserver.jdbc.SQLServerDriver
workflowUrl=jdbc\:sqlserver\://localhost\:1433;SelectMethod\=direct;DatabaseName\=jwdb;
integratedSecurity\=true
workflowPassword=
workflowUser=sa
```

Note: The value in "workflowUser" is not being used but it is a required field. You can key in any value here.

5. Start Joget server and test.