SQL Database Extractor

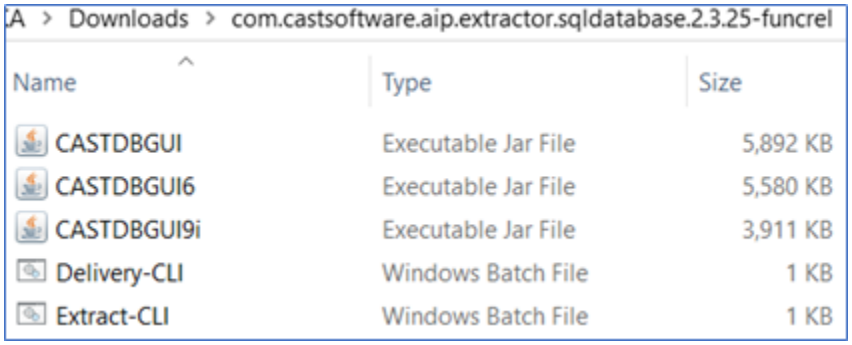
Pre-requisite

The CAST Database Extractor can be run in command line (CLI) mode should you wish to automate the extract/initialize process.

When using the command line, the process consists of a set of instructions and commands contained in a batch file (.bat) file. When the batch file is executed, the Java tool (CASTDBGUI.jar) is launched and the process begins. If you are extracting a large amount of data (i.e. multiple schemas /databases or one very large schema/database), you must use a batch file that contains specific Java Heap Space configuration commands (the -Xmx command), otherwise you will likely receive out of memory exceptions. Below is an example batch file for launching the .JAR tool.

Download from extending

Download and extract - com.castsoftware.aip.extractor.sqldatabase.2.3.25-funcrel.nupkg



Please modify the following script to suit your needs and environment

*** CASTDBGUI - Example batch script (basic) starts here [batch file] ***

REM ================================

REM EXTRACT ACTION

REM ================================

java -Xmx1024M -cp CASTDBGUI.jar com.castsoftware.extractor.cli.DatabaseExtractor -vendor <vendor name> -driver <driver name> -url <JDBC URL> -user <username> -password <password> -parameters <database|schema>=<database/schemas for extraction>;minimal_access_mode=<dba|all>;skip_comments=<no|yes>;skip_modification_check_schema=<schemas not to test for modification> -target <path to output location - no trailing backslash> -l <path to extract log file>

REM ================================

REM EXAMPLE

REM java -Xmx1024M -cp CASTDBGUI.jar com.castsoftware.extractor.cli.DatabaseExtractor -vendor SQLServer -driver net.sourceforge.jtds.jdbc.Driver -url jdbc:jtds:sqlserver://dbserver:1433 -user sa -password mypassword -parameters database=MYDATABASE -target D:\DBExtractor\results -l D:\DBExtractor\output_extractor.txt

REM ================================

REM ================================

REM INITIALIZE ACTION

REM ================================

java -Xmx1024M -cp CASTDBGUI.jar com.castsoftware.extractor.cli.Importer -source <path to source location - no trailing backslash> -target <path to output location - no trailing backslash> -relativepaths -l <path to initialize log file>

REM ================================

REM EXAMPLE

REM java -Xmx1024M -cp CASTDBGUI.jar com.castsoftware.extractor.cli.Importer -source D:\DBExtractor\results -target D:\DBExtractor\initialize -relativepaths -l D:\DBExtractor\output_initialize.txt

REM ================================

*** CASTDBGUI - Example batch script (basic) ends here ***

Please modify the following script to suit your needs and environment

*** CASTDBGUI - Example batch script (using Environment variables) starts here [batch file] ***

@echo off

REM SQLExtractor folder path

set EXTRACTOR_PATH=C:\Program Files\CAST\<version>\Extractors\SQLExtractor

REM Extract Parameters

REM ==================

REM -parameters parameter value. Note that the example below is set for Oracle Server only.

REM To extract MS SQL Server/Sybase ASE, use set "EXTRACT_PARAMETERS=database=<databases for extraction>"

set EXTRACT_PARAMETERS=schema=<schemas for extraction>;minimal_access_mode=<dba|all>;skip_comments=<no|yes>;skip_modification_check_schema=<schemas not to test for modification>

REM -l parameter value

set EXTRACT_LOGFILEPATH=<path to extract log file>

REM -target parameter value, and Initialize -source parameter value

set EXTRACT_TARGET=<path to output location - no trailing backslash>

REM -driver parameter value

set EXTRACT_DRIVER=<driver name>

REM -url parameter value

set EXTRACT_URL=<JDBC URL>

REM -user parameter value

set EXTRACT_USER=<extraction user>

REM -password parameter value

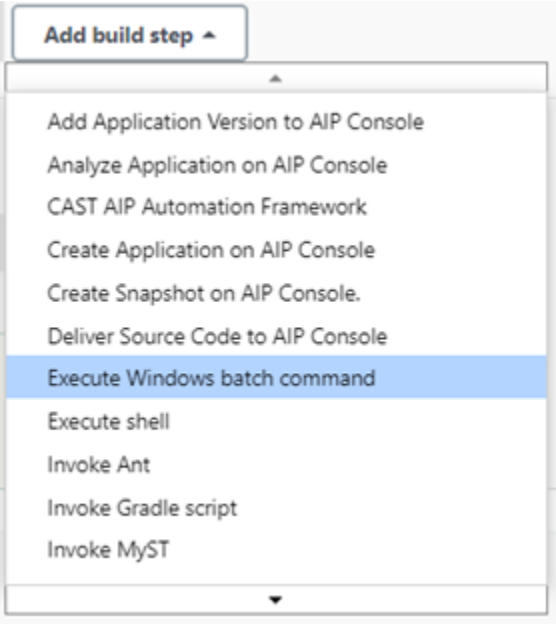
set EXTRACT_PASSWORD=<extraction user password>

```
REM Initialize Parameters

REM ==================

REM -I parameter value

set INITIALIZE_LOGFILEPATH=<path to initialize log file>

REM -target parameter value

set INITIALIZE_TARGET=<path to output location - no trailing backslash>


java -cp "%EXTRACTOR_PATH%\CASTDBGUI.jar" com.castsoftware.extractor.cli.DatabaseExtractor  -driver "%EXTRACT_DRIVER%" -url "%
EXTRACT_URL%" -user "%EXTRACT_USER%" -password %EXTRACT_PASSWORD% -parameters "%EXTRACT_PARAMETERS%" -target "%
EXTRACT_TARGET%" -I "%EXTRACT_LOGFILEPATH%"

SET RETURN_CODE=%ERRORLEVEL%


IF '%RETURN_CODE%' == '0' ( ECHO Extract Succeeded. Details in '%EXTRACT_LOGFILEPATH%'

) ELSE ( ECHO Extract Failed with %RETURN_CODE%. Details in '%EXTRACT_LOGFILEPATH%'

    exit /B 1 ' Extract ERROR

 )


java -cp "%EXTRACTOR_PATH%\CASTDBGUI.jar" com.castsoftware.extractor.cli.Importer -target "%INITIALIZE_TARGET%" -source "%
EXTRACT_TARGET%" -I "%INITIALIZE_LOGFILEPATH%"

SET RETURN_CODE=%ERRORLEVEL%

IF '%RETURN_CODE%' == '0' ( ECHO Initialize Succeeded. Details in '%INITIALIZE_LOGFILEPATH%'

) ELSE ( ECHO Initialize Failed with %RETURN_CODE%. Details in '%INITIALIZE_LOGFILEPATH%'

    exit /B 2 ' Initialize ERROR

 )


exit /B 0
```

*** CASTDBGUI - Example batch script (using Environment variables) Ends here ***

Jenkins job

Create a job with



Point the batch file location

Click on save the job

References

- https://doc.castsoftware.com/display/DOCCOM/CAST+Database+Extractor#CASTDatabaseExtractor-Howtorunanextract/initializewiththeCLI
- https://extendng.castsoftware.com/#/extension?id=com.castsoftware.aip.extractor.sqldatabase&version=2.3.25-funcrel