Wherescape 3d DV Model Automation Deployment to Red Repository

By Rathi Ramachandran May 1,2022

This document explains the complete command line example code to automate the wherescape **3d XML mode deployment** to **red repository** through the scheduler **by using the batch script**.

Exporting to 3d xml red command Example

Red export

-r Repository name (3d Repository name not the red repository)

-c category

Below are the main 3d model categories

1. Data vault design
2. Data Vault
3. Business vault
4. Load and staging
5. Business vault development
6. Red Export
7. EDW
8. Star schema

-m Model name

-v version (1.0,1.2)

-g Group – Group name

-o name of the 3d xml file

[-f] (Force overwrite)

Example

```
cd "C:\Program Files\WhereScape\WhereScape 3D>"

jre\bin\Java  -Xmx512m -XX:MaxMetaspaceSize=512m -splash: -jar "WhereScape-3D-HEAD-bundle.jar"
redexport        -r "3d Repository name "

                 -c "RED export"

                 -m "model name"

                 -v "1.0.1"

                 -o "C:\Data Vault\3d Exports\Myfirstvalut.xml"

                 [-f]
```

Exporting to Red repository command line

WhereScape RED provides a dedicated command line interface called **REDCLI** which enables you to perform command functions. The **REDCLI** tool is available in the RED Windows installation directory. This tool can be called from 3rd party applications or Windows scripting languages to perform common functions.

In this mode, you have a file containing a series of **REDCLI** actions that are executed sequentially. One use case is loading an enablement pack of templates, data type mapping sets, database function sets. This is particularly useful if you want to repeat a set of actions in multiple RED repositories.

redcli deployment

deploy --xml-filename "M:\Data Vault\3d Exports\ Myfirstvalut.xml "

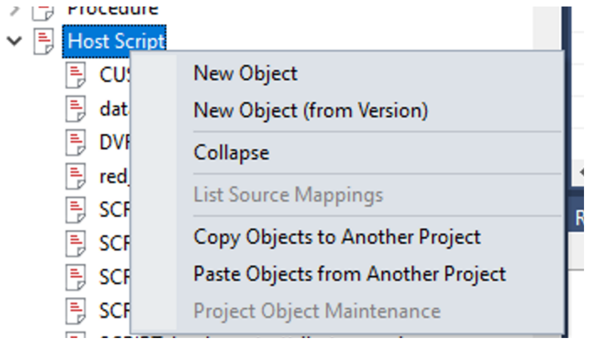
--meta-dsn "DSN_**repository name**"

--meta-dsn-arch 64

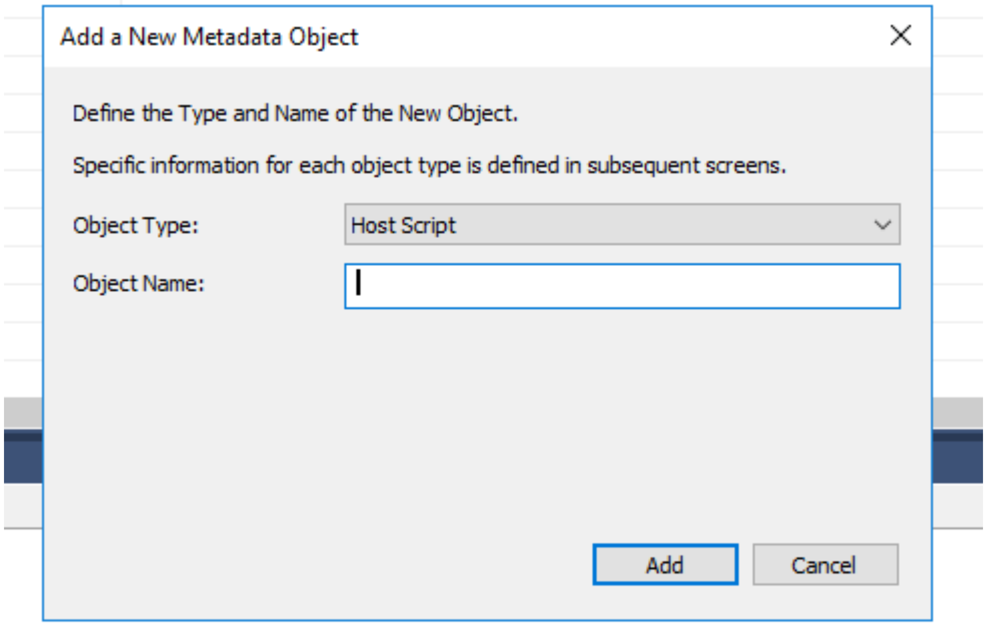
--meta-database "**Database server name**"

Step by step procedure to automate the 3d xml model to red repository.

Step 1: open wherescape RED. Go to the Host script. Right click on New Object


Procedure
Host Script
CUS
dat
DVF
red
SCF
SCF
SCF
SCF
New Object
New Object (from Version)
Collapse
List Source Mappings
Copy Objects to Another Project
Paste Objects from Another Project
Project Object Maintenance

Step 1: Provide the script name “**Model_Deplyment”**

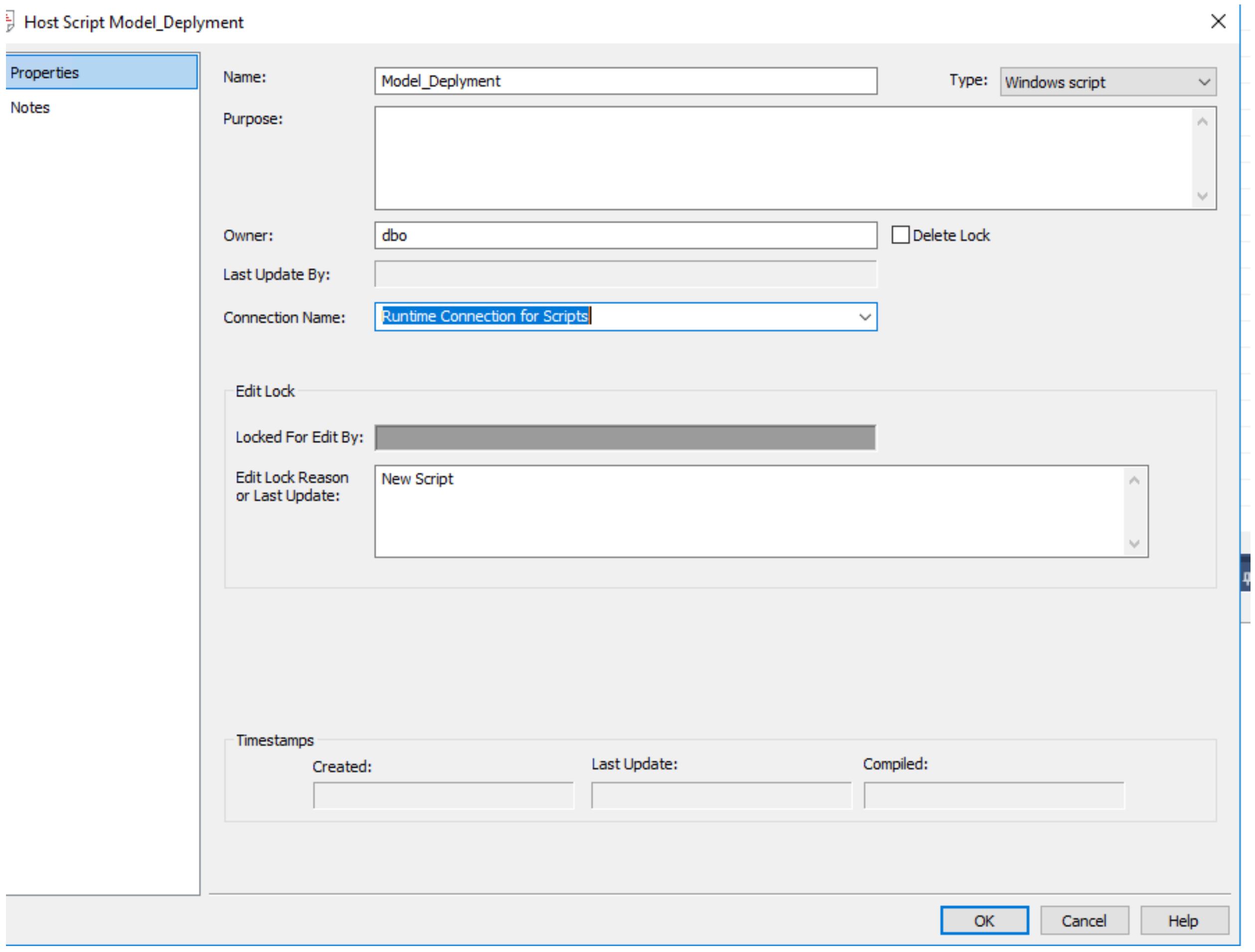

Add a New Metadata Object

Define the Type and Name of the New Object.

Specific information for each object type is defined in subsequent screens.

Object Type:	Host Script
Object Name:	

Step 3: Pleases provide the connection name and type of script. See the screen shot


Host Script Model_Deplyment

Name:	Model_Deplyment
Type:	Windows script
Purpose:	
Owner:	dbo
Delete Lock	☐
Last Update By:	
Connection Name:	Runtime Connection for Scripts

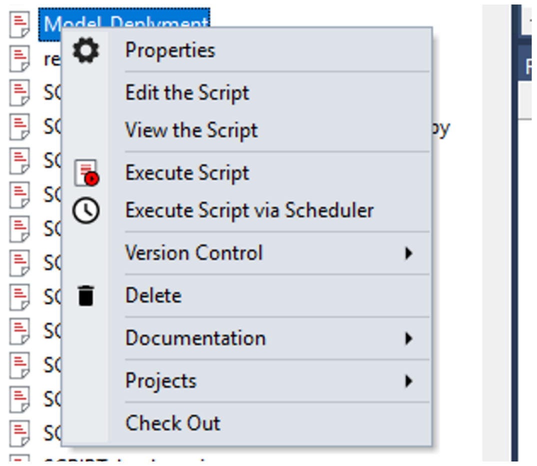
Edit Lock

Locked For Edit By:	
Edit Lock Reason or Last Update:	New Script

Timestamps

Created:	Last Update:	Compiled:

Step 4 : Right click on the script name and edit the script



Setp 5 : please use below complete code for the automatic deployment of 3d xml file to the red repository .Please change the repository name and other information for your own repository and server information.

```
@ECHO OFF

SETLOCAL ENABLEDELAYEDEXPANSION

SETLOCAL ENABLEEXTENSIONS

REM

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

REM Purpose:       WhereScape RED Windows Host Script for scheduling

REM                WhereScape 3D processing.

REM Generated by:  WhereScape 3D

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

REM


SET "LOGFILE=C:\temp\3Ddisc.aud"

SET "ERRFILE=C:\temp\3Ddisc.err"

SET "PATH3D=C:\Program Files\WhereScape\WhereScape 3D\WhereScape-3D-HEAD-bundle.jar"

SET "REPO=wherescapeV2_dev"
SET "CATEGORY=RED export"

SET "MODEL=DVR"

SET "VERSION=1.0.1"



SET "TITLE=RED export"

set CUR_YYYY=%date:~10,4%

set CUR_MM=%date:~4,2%

set CUR_DD=%date:~7,2%

SET "LOCATION=M:\Data Vault\3d Exports\"

set SUBFILENAME=%CUR_YYYY%%CUR_MM%%CUR_DD%

SET "FNAME=\DVR.xml"



set FILELOCATION=%LOCATION%%SUBFILENAME%%FNAME%

REM ======create the 3d XML file through the command
line=================================================================


cd "C:\Program Files\WhereScape\WhereScape 3D>"

jre\bin\Java  -Xmx512m -XX:MaxMetaspaceSize=512m -splash: -jar "WhereScape-3D-HEAD-bundle.jar"
redexport -r "3drepository name " -c "RED export" -m "Group name" -v "1.0.1" -o "c:\Data Vault\3d
Exports\3dmodel.xml"

cd "C:\Program Files\WhereScape\WhereScape 3D>"

jre\bin\Java  -Xmx512m -XX:MaxMetaspaceSize=512m -splash: -jar "WhereScape-3D-HEAD-bundle.jar"
redexport -r "Repository name" -c "RED export" -m "DVB" -v "1.0.1" -o c:\Data Vault\3d
Exports\3dmodel.xml" - f


REM ======Deploy the 3d model xml file to the red repository


redcli deployment deploy --xml-file-name "M:\Data Vault\3d Exports\Rawdatavault.xml" --meta-dsn
"repository DSN name " --meta-dsn-arch 64 --meta-database "database Server name"
```

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

redcli deployment deploy --xml-file-name "M:\Data Vault\3d Exports\Businessvalut.xml" --meta-dsn " **repository name**" --meta-dsn-arch 64 --meta-database "**Database server name**"

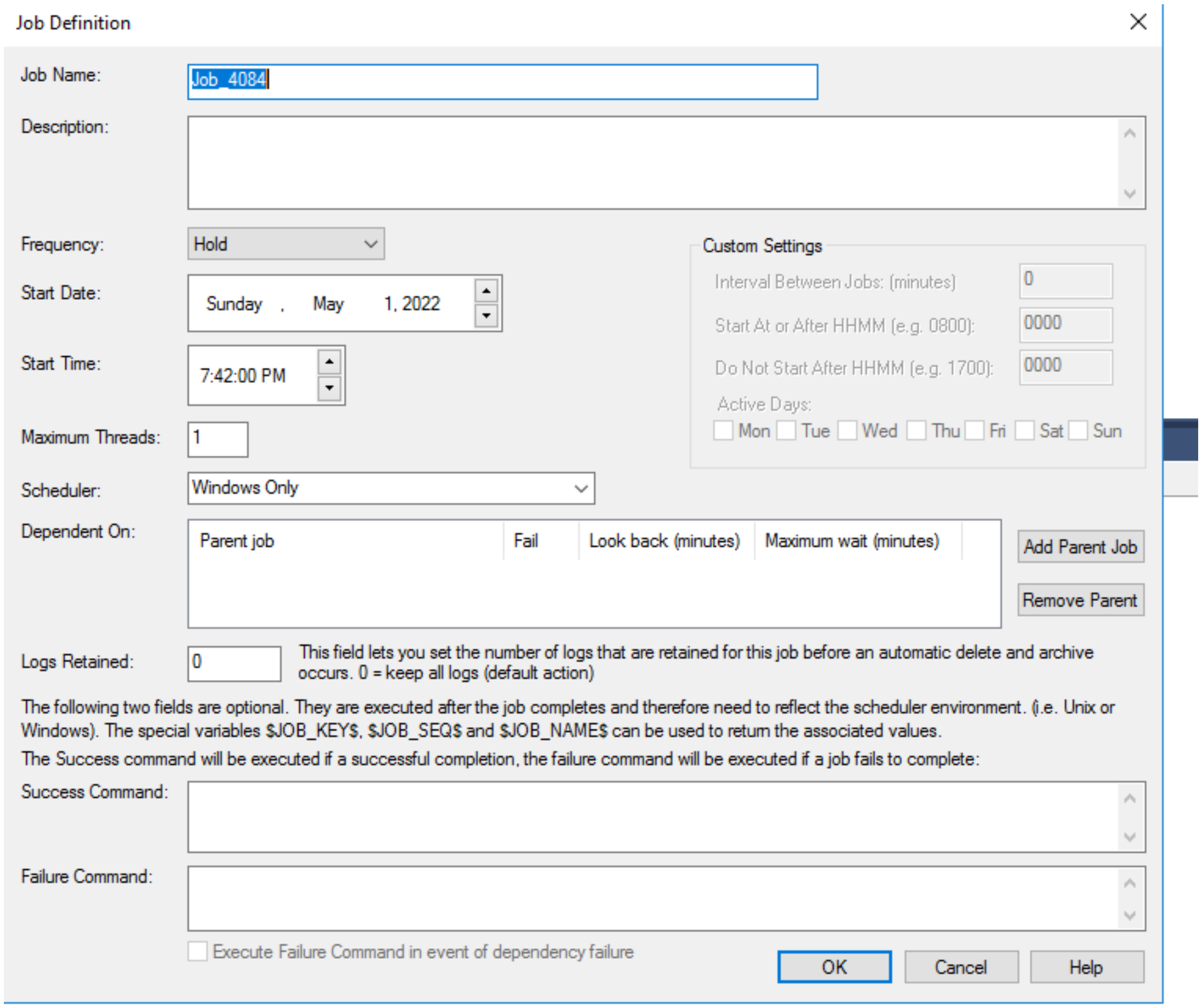
ECHO 1

ECHO WhereScape 3D process has completed

TYPE "%LOGFILE%"

TYPE "%ERRFILE%" 1>&2

Step 6 : Please schedule the job to automated the process



Job Definition

Job Name:	Job_4084
Description:	
Frequency:	Hold
Start Date:	Sunday , May 1, 2022
Start Time:	7:42:00 PM
Maximum Threads:	1
Scheduler:	Windows Only

Custom Settings

Interval Between Jobs: (minutes)	0
Start At or After HHMM (e.g. 0800):	0000
Do Not Start After HHMM (e.g. 1700):	0000

Active Days: ☐ Mon ☐ Tue ☐ Wed ☐ Thu ☐ Fri ☐ Sat ☐ Sun

Dependent On:

Parent job	Fail	Look back (minutes)	Maximum wait (minutes)

Logs Retained: 0

This field lets you set the number of logs that are retained for this job before an automatic delete and archive occurs. 0 = keep all logs (default action)

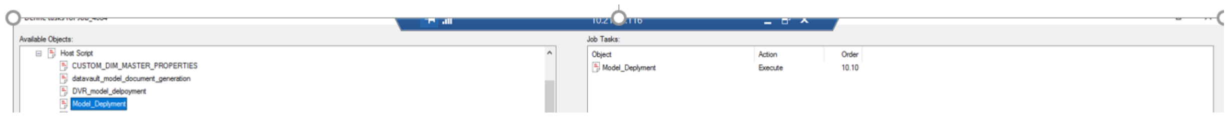
The following two fields are optional. They are executed after the job completes and therefore need to reflect the scheduler environment. (i.e. Unix or Windows). The special variables JOB_KEY, JOB_SEQ and JOB_NAME can be used to return the associated values.

The Success command will be executed if a successful completion, the failure command will be executed if a job fails to complete:

Success Command:

Failure Command:

☐ Execute Failure Command in event of dependency failure



Available Objects:

- Host Script
  - CUSTOM_DIM_MASTER_PROPERTIES
  - datavault_model_document_generation
  - DVR_model_delpoyment
  - Model_Deplyment

Job Tasks:

Object	Action	Order
Model_Deplyment	Execute	10.10