Deployment Part 1

Working with the Package Deployment Model

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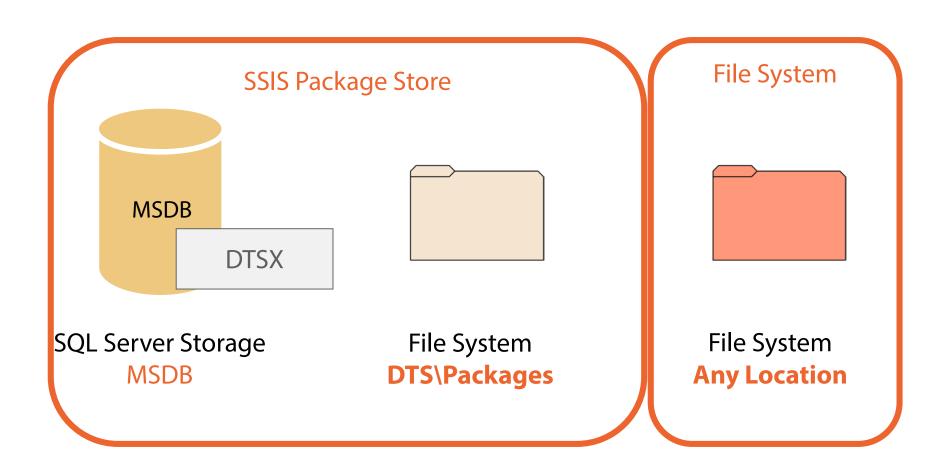




Overview

- Deployment Target Options
- Deployment Utility and Other Tools
- Package Configuration
- Package Execution

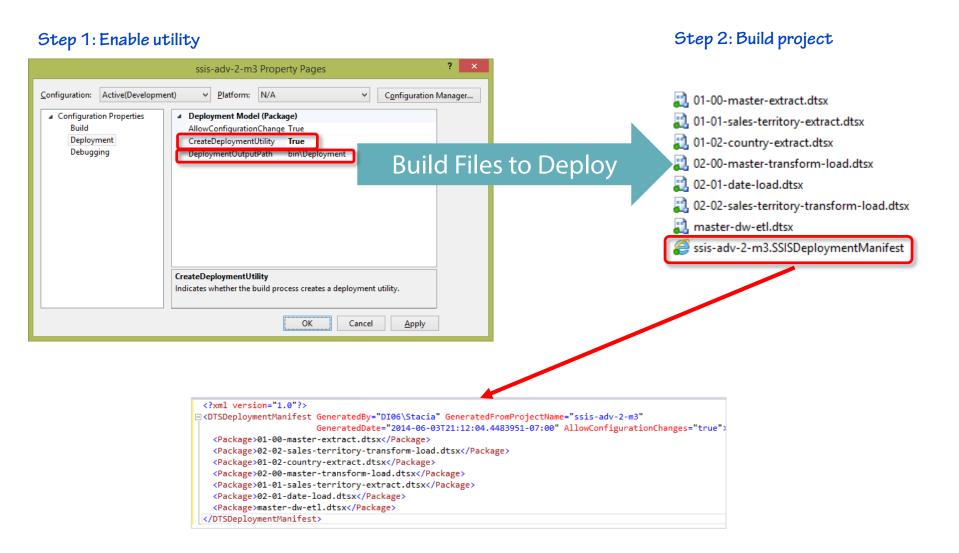
Deployment Target Options



Deployment Target Options

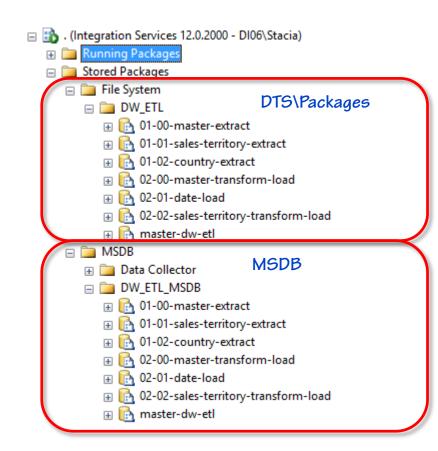
| Function | MSDB | File System |
|---------------------|------|-------------|
| Redeployment | | |
| Backup and recovery | | |
| Differencing | | |
| Security | | |
| Performance | | |

Deployment Utility



Deployment Utility



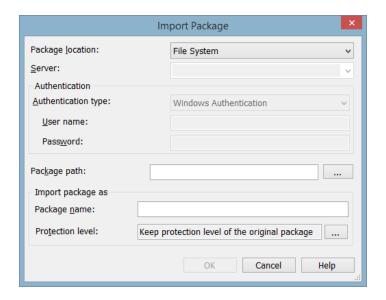


Important!

File system deployment requires write permissions

Other Deployment Tools

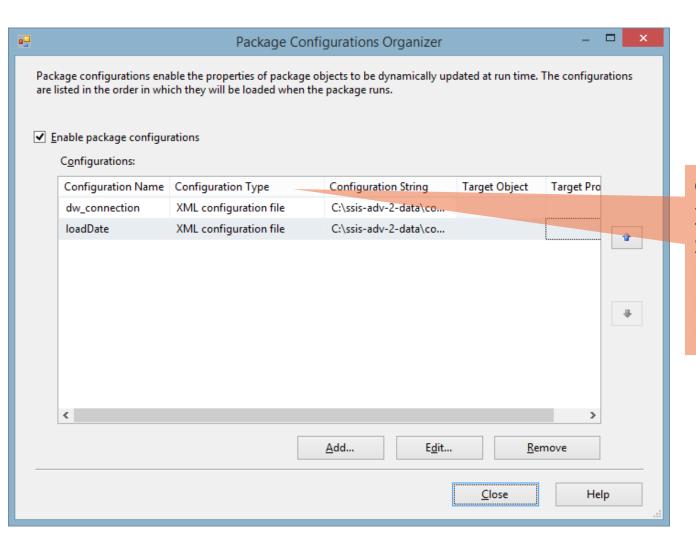
Import Package (SSMS)



DTUTIL.EXE (Command Line)

```
dtutil
/FILE
c:\ssis-adv-2-data\pkg\staging_pkg.dtsx
/DestServer localhost /COPY
SQL;staging_pkg
```

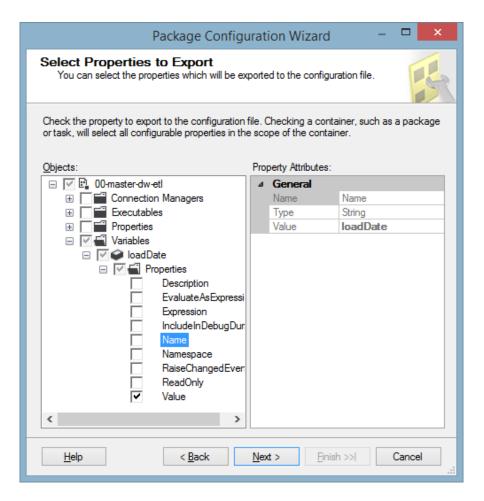
Package Configuration



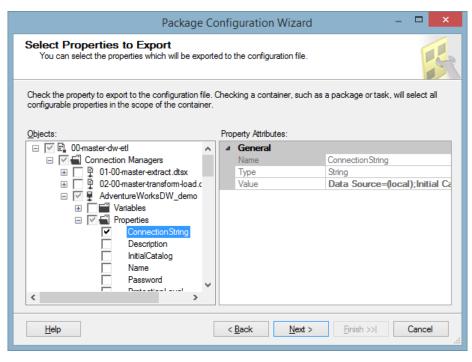
Configuration Types: XML SQL Server Registry Environment variable Parent package variable

Package Configuration

Variable Value

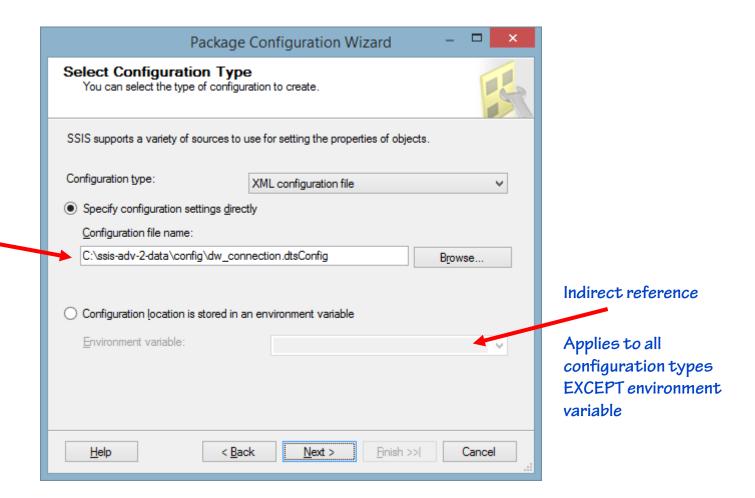


Connection String



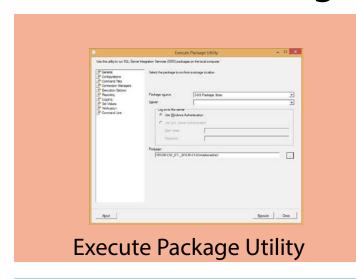


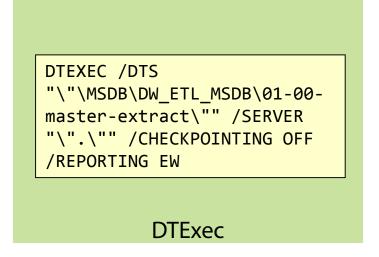
Package Configuration

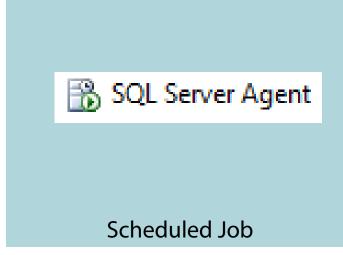


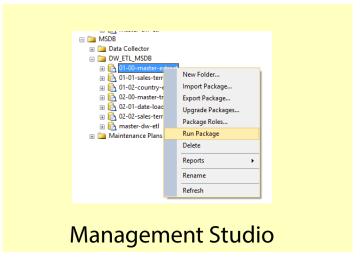
Direct reference

Package Execution



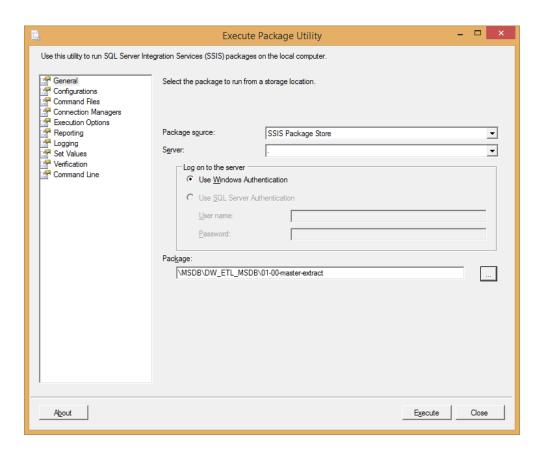








Execute Package Utility



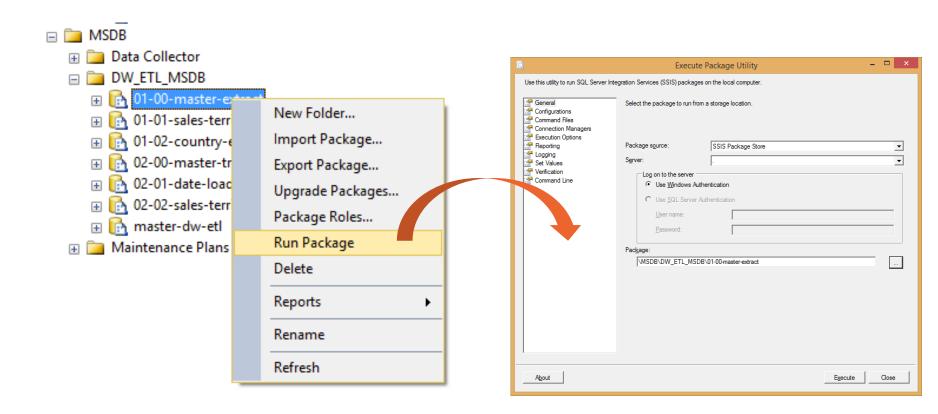
- Package location and name
- Package configuration files
- Command files
- Connection string
- Package properties
- Console reporting
- Logging
- Property values
- Verification
- Command line



DTExec

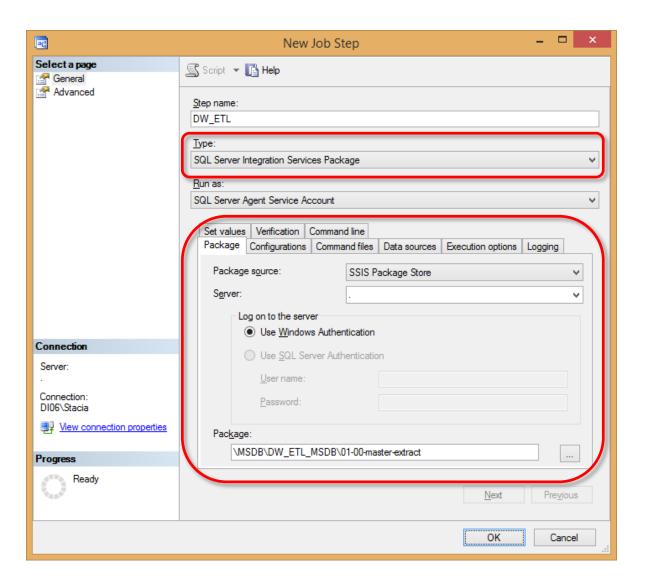
```
Location ID:
/SQL
/FILE
                         Path and package name
DTEXEC /DTS "\"\MSDB\DW_ETL_MSDB\01-00-master-extract\""
/SERVER "\".\"" /CHECKPOINTING OFF /REPORTING EW
  Server name
                        Optional parameters
   Other options:
                      /Connection
   /CommandFile /Logger
   /ConfigFile
                      /Set and more...
```

SQL Server Management Studio





SQL Server Agent



Interface similar to Execute Package Utility



Summary

Deployment Target Options

SSIS Package Store (MSDB, File System) or general file system

Deployment Utility and Other Tools

Project properties for deployment, import in SSMS, and DTUTIL

Package Configuration

- Override package executable properties, connections, variables
- XML, environment variable, registry, SQL Server table, parent package variable

Package Execution

Execute Package Utility, DTEXEC, Run Package command (SSMS), SQL Server
 Agent job