SQL Moderation Hack – SSIS Migration Lab

V2.4

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PROBLEM STATEMENT

In Lab 1 of this hack, you have migrated 3 databases to Azure for the application Transaction Reporting Application.

Now that the databases for the Transactional Reporting Application have been migrated, there is a set of additional SSIS packages on the LEGACYSQL2008 server that also require migration to the SQL Managed Instance for the central Data Warehouse.

Task: Migrate SSIS from SQL Server 2008r2 to suitable environment, with a successful run of the package, verifying of the data and scheduling of package.

LAB INSTRUCTIONS

Time: 30 Mins

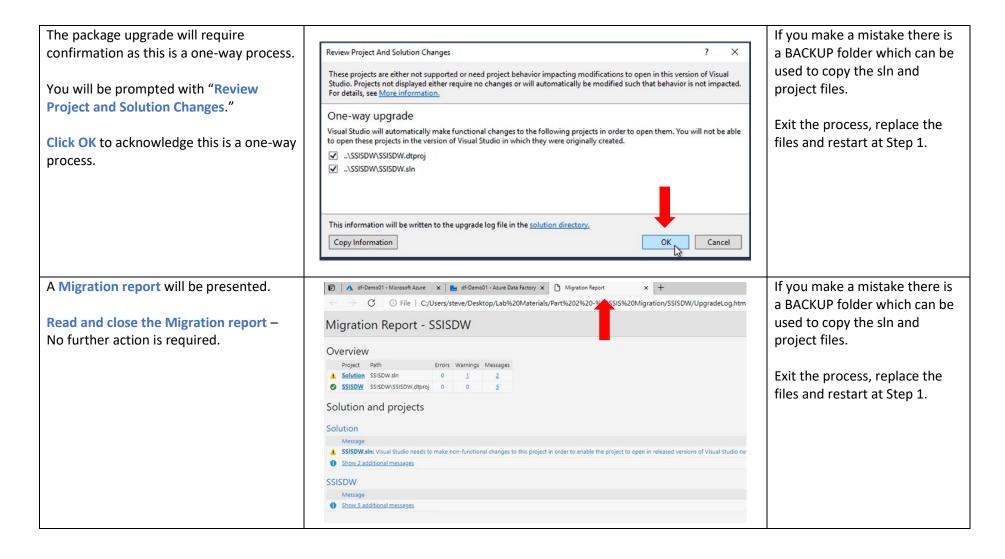
For Connection Strings and Passwords see sections LAB ENVIROMENT and APPENDIX at the end of this document

Stage 1 – Upgrade Package using the Upgrade Wizard.

In this section we will be upgrading the Legacy SSIS package so that it can be migrated to Azure.

Narrative	Screenshot	Notes
Open the SQL 2008 Solution using Visual Studio 2017.	← → ✓ ↑ □ > Lab Materials > Part 2 - SSIS Migration > SSISDW > ✓ ♂ Sea	You will need to RDP onto the TEAM virtual machine to
Open the folder:	↑ Name Date modified Type SSISDW 04/05/2021 12:15 File folder	Size complete this task.
C:_SQLHACK_\LABS\Part 2 - SSIS Migration\SSISDW	Desktop Open Share Open with Microsoft Visual Studio 2017	For connection details see APPENDIX - TEAMXX VM RDP details
Right click the SSISDW.sIn solution file Open with Visual Studio 2017	Give access to Restore previous versions Send to Cut Microsoft Visual Studio 2019 Microsoft Visual Studio 2019 Microsoft Visual Studio Version Selector Search the Microsoft Store Choose another app	







Stage 2 – Convert to Project Deployment mode & update connection string.

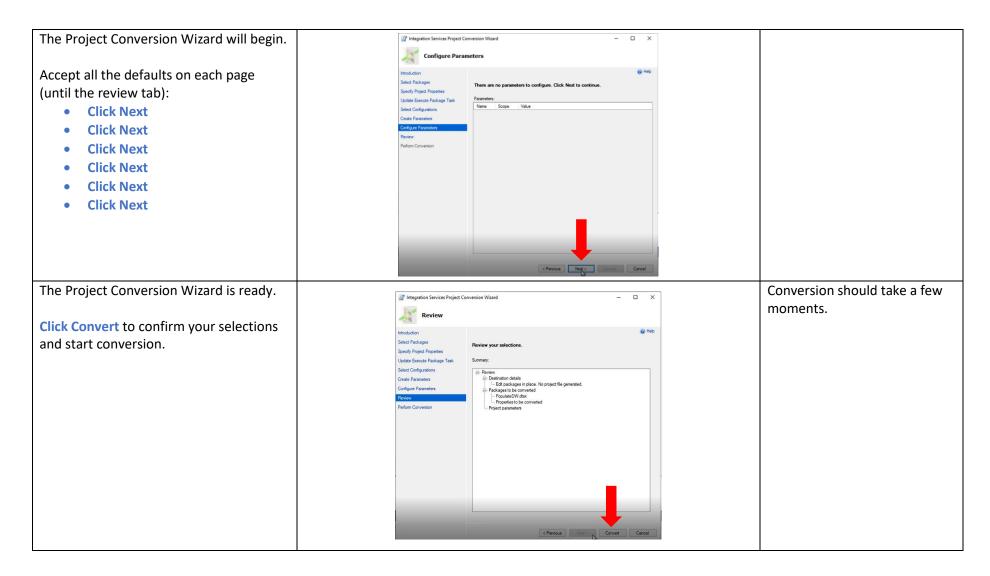
In this section we will be converting the DTSX package into a Project Deployment model and correcting the DTSX package connection strings to use the new SQL Server Managed Instance using Visual Studio 2017.

Narrative	Screenshot	Notes
Now the Solution is upgraded, it will be open in Visual Studio 2017.	Search Solution Explorer (Ctrl+;)	If Visual Studio 2017 is not open, please confirm Stage 1
In Solution Explorer:	Solution 'SSISDW' (1 project) SSISDW (package deployment model) Data Sources	has been completed: Open the folder:
Double Click PopulateDW.dtsx to open it.	SOLServer.ds SSIS Packages PopulateDW.dts: Package Parts Control Flow Miscellaneous C:\	C:_SQLHACK_\LABS\Part 2 - SSIS Migration\SSISDW Right click the SSISDW.sln solution file Open with Visual Studio 2017

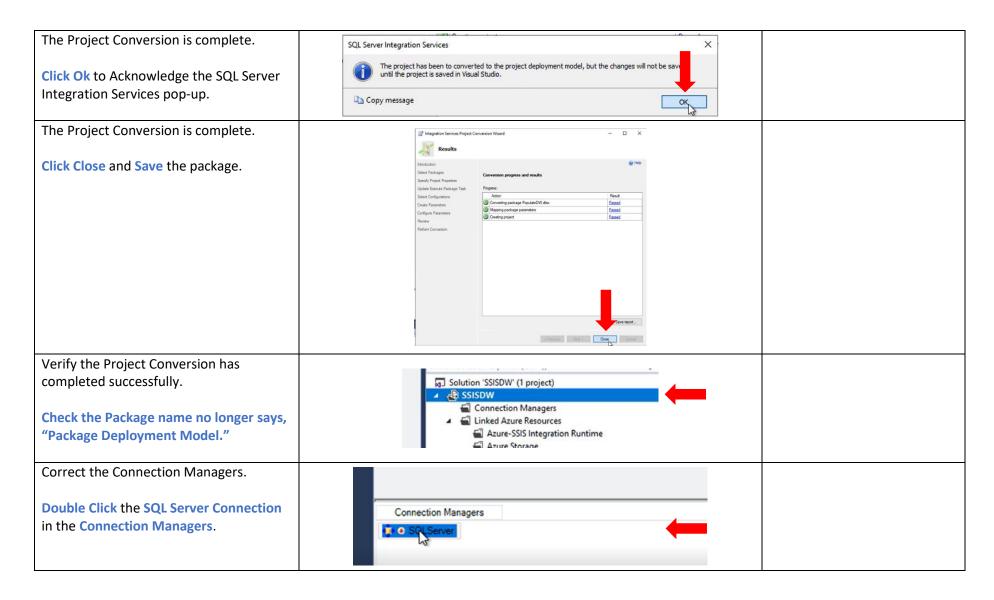


You will be prompted to Synchronise Marchronize Connection Strings × connection strings: This package contains at least one connection which is based on a data source. The connection string for connections and data sources listed below are currently not **Click OK** to acknowledge connection identical. Connection strings of connections will be updated to reflect those on the data strings will be updated. Conn... Data ... Old Connectio... New Connecti... SQLS... SQLS... Data Source=.;... Provider=SQL... The SSIS package will require conversion Solution 'SSISDW' (1 project) to a Project Deployment Model. Build Rebuild SSIS in Azure Data Factory Right Click SSISDW (package Scope to This deployment model) New Solution Explorer View **Select Convert to Project** Manage NuGet Packages... Runtime **Deployment Model** Set as StartUp Project Debug Convert to Project Deployment Model Source Control X Cut Ctrl+X 6 Paste Ctrl+V X Remove Rename Unload Project Alt+Enter Properties









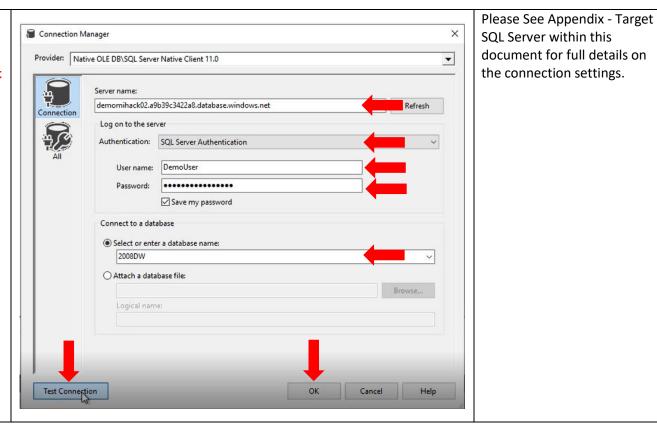


Within the Connection Manager, update to the new connection details.

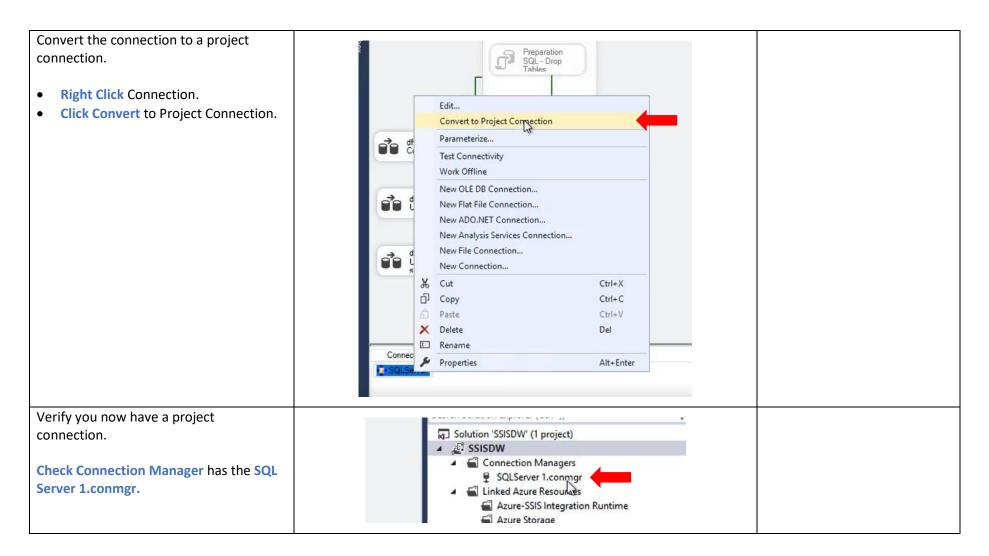
- Server Name: (See Appendix Target SQL Server)
- Authentication: SQL Server Authentication
- User Name: (See Appendix Target SQL Server)
- Password: (See Appendix Target SQL Server)
- Select or Enter Database name: 2008DW

Once the settings above are complete.

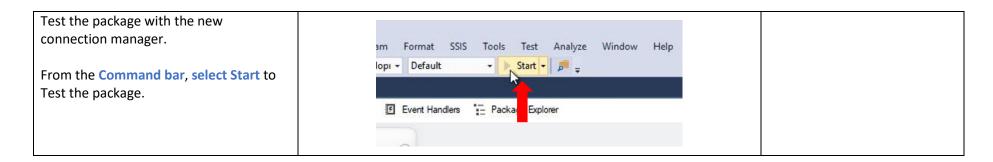
- Click Test Connection to test the connection.
- Click OK to save.









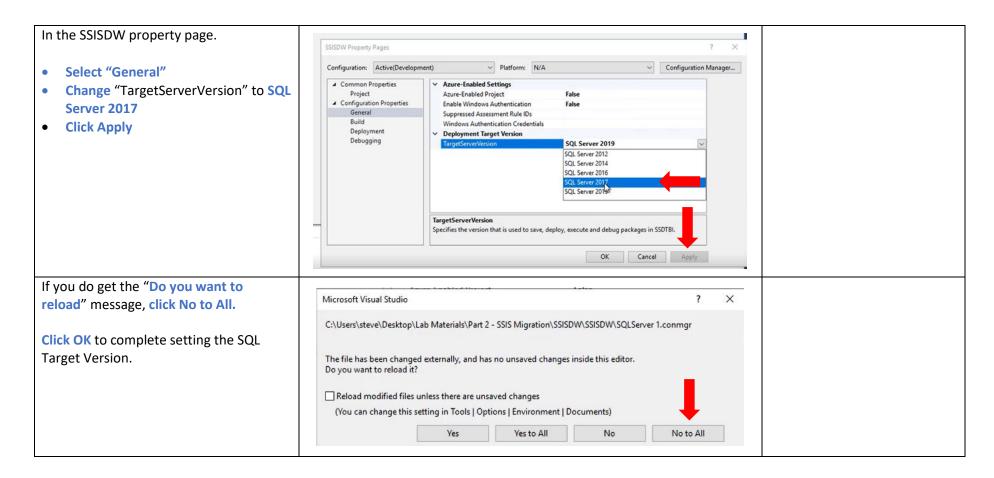


Stage 3 – Deploy Package to the SSISDB on the Managed Instance

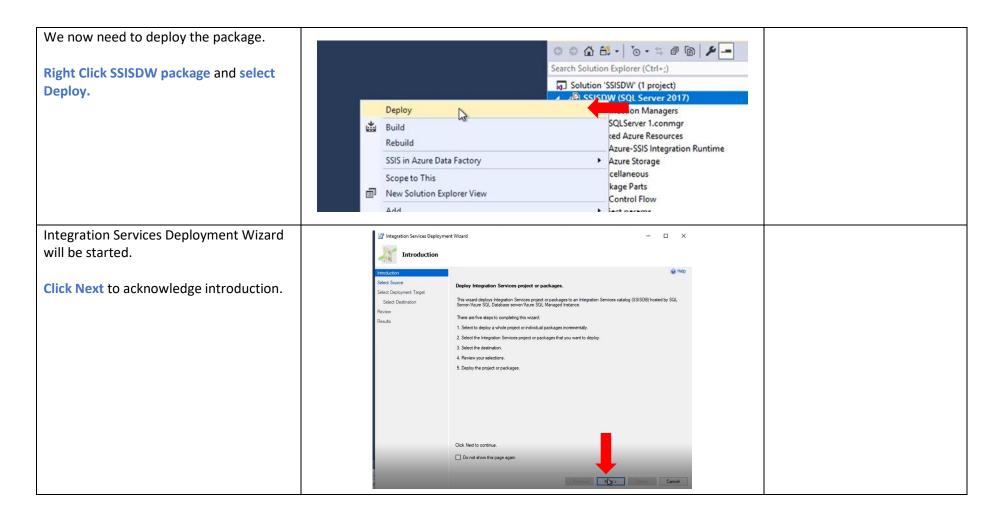
In this section we will be deploying the fixed package onto the SSIS integration runtime and SSISDB held within the Managed Instance.

Narrative	Screenshot		Notes
Set the Target Server version to SQL		- 5 - \$ # @	Please ensure you have
Server 2017 as SQL server 2019 is not yet		Explorer (Ctrl+;) SISDW (1 project)	completed Stage 1 and Stage 2
supported.		ad Azure Resources zure-SSIS Integration Ri	successfully.
In Solution Explorer:	Scope to This New Solution Explorer View Add	sure Storage ellaneous age Parts ontrol Flow tchparams	
Right Click SSISDW package and select properties.	Manage Nutler Packages Set as SantUp Project Debug Convent to Package Deployment Model	Packages opulateDW.dtsx	
properties.	Source Control Source Control Cut Cut Value X Remove Del Rename Unload Project Properties Alt-Enter	Team Eightorer	
	[*] O _L p		











Integration Services Deployment Wizard.

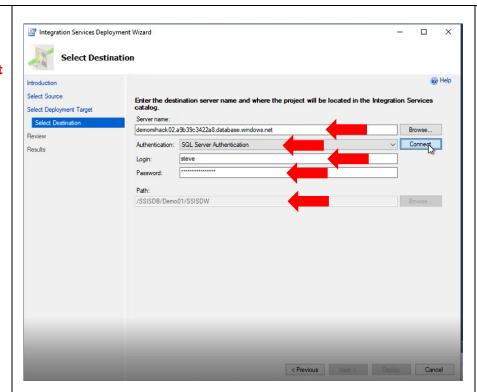
Select SSIS in Azure Data Factory.
Click Next.

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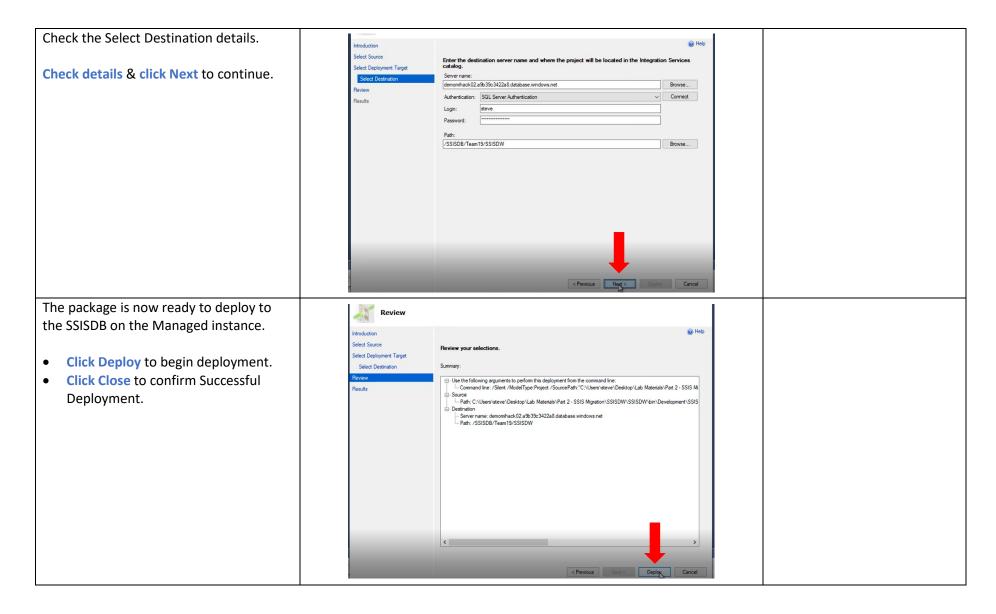
Within the Select Destination tab with the destination details:

- Server Name: (See Appendix Target SQL Server)
- Authentication: SQL Server Authentication
- User Name: (See Appendix Target SQL Server)
- Password: (See Appendix Target SQL Server)
- Path: Select Browse and Add your TEAM name as a Folder. Example if you are in TEAM 1, enter a folder name of TEAM01.



Please See Appendix - Target SQL Server within this document for full details on the connection settings.





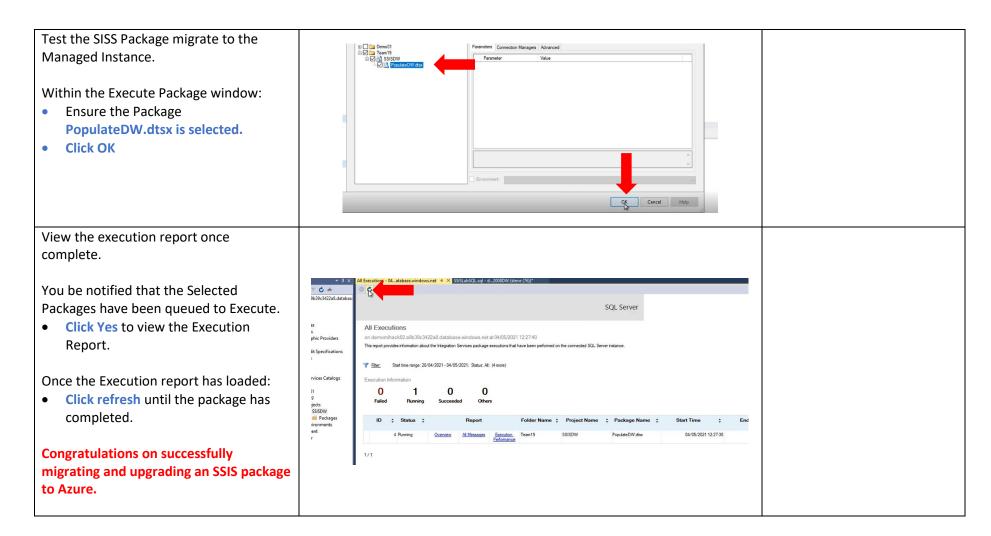


Stage 4 – Verify Deployment and test run package.

In this section we will be verifying the package has been deployed successfully to the Managed Instance and running the Package to ensure it is working correctly.

Narrative	Screenshot	Notes
Using SQL Server Management Studio (SSMS), connect to the SQL Server Managed Instance. In SSMS, navigate to Integration Service Catalogs: • Select Projects • Select Your TEAM folder Verify the SSISDW Package has been deployed.	Server Audit Specifications Server Objects Replication Management Integration Services Catalogs SSISDB Demo01 Team19 Projects Projects Packages Environments SQL Server Agent	For connection details please See Appendix - Target SQL Server.
Test the SISS Package migrate to the Managed Instance. Execute the SSIS Package Right Click the SSISDW package Select Execute	■ DemoU1 □ Team19 □ Projects □ Projects □ Envi □ Envi □ SQL Server Age □ XEvent Profiler Wersions Execute Execute Execute Reports	





Optional Stage 5 – Schedule Package using SQL Server Agent

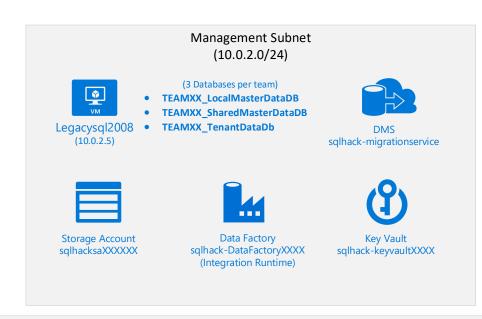
If you have time, schedule the package to run with a Job using SQL Server Agent

Note: No instructions provided for this task.



LAB ENVIROMENT







Gateway Subnet (10.0.0.0/24)

NOTE: There are 20 workshop environments using a SHARED source SQL Server and target Azure SQL Database Managed Instance. Please be respectful of only migrating your teams Databases and Logins.



APPENDIX

Summary of Logins and Accounts Used

There are several different environments that you need to login/connect to during the labs. Sometimes you will need to login into the same environment with different accounts depending on what you are doing e.g., logging into SQL Server with a standard or sysadmin privileged account.

TEAMXX VM RDP details

Machine IP address	
(Use for RDP connection)	
Machine Name	vm-TEAMxx
(Replace XX with Team number)	
Win10 Username:	Demouser
(Use for RDP connection)	
Win10 Password:	Demo@pass1234567
(Use for RDP connection)	
Resource Group	SQLHACK-TEAM-VMs
nesource Group	SQLIMON-I LAIVI-VIVIS

Target SQL Server (Azure SQL Managed Instance)

Server Name	SQL MI FQDN from Azure portal
Resource Group	SQLHACK-SHARED
Sysadmin Login Name: (Use for Migrations)	DemoUser
Admin Login Password:	Demo@pass1234567

