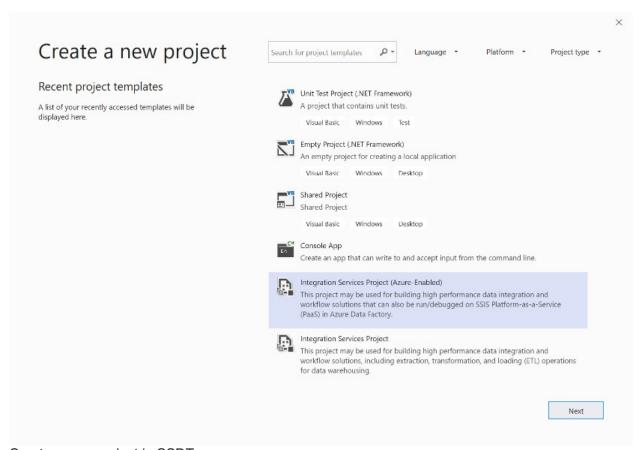
Example - Run SSIS packages in Azure Data Factory

Note:

You are not required to complete the processes, tasks, activities, or steps presented in this example. The various samples provided are for illustrative purposes only and it's likely that if you try this out you will encounter issues in your system.

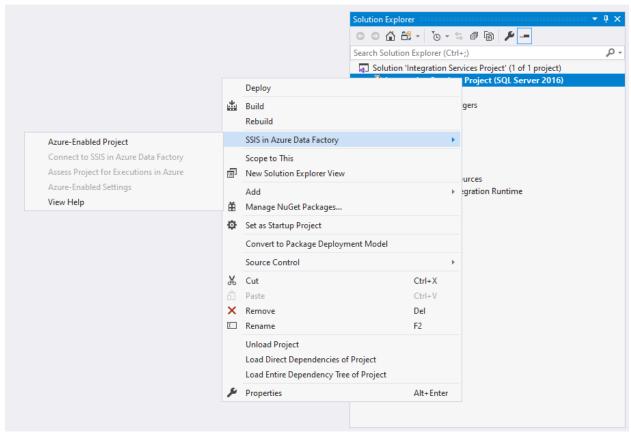
SQL Server Data Tools (SSDT) is typically used to create and deploy SQL Server Integration Services (SSIS) packages. It can be used for both on-premises SSIS packages, and for packages that will be used in Azure through Azure Data Factory. When creating a new SSIS package that is to be used in Azure, you first should select an Azure-enabled Integration Services Project, which will prompt you to connect to an instance of Azure Data Factory.



Create a new project in SSDT

You may already have SSIS packages that you wish to have enabled for Azure. In this case, there is the option to open up the project in SSDT, and then right-click the project and click on Azure-Enabled

Project menu item under the SSIS in Azure Data Factory submenu to launch the Azure-Enabled Project Wizard. You may already have SSIS packages that you wish to have enabled for Azure. In this case, there is the option to open up the project in SSDT, and then right-click the project and click on Azure-Enabled Project menu item under the SSIS in Azure Data Factory submenu to launch the Azure-Enabled Project Wizard.



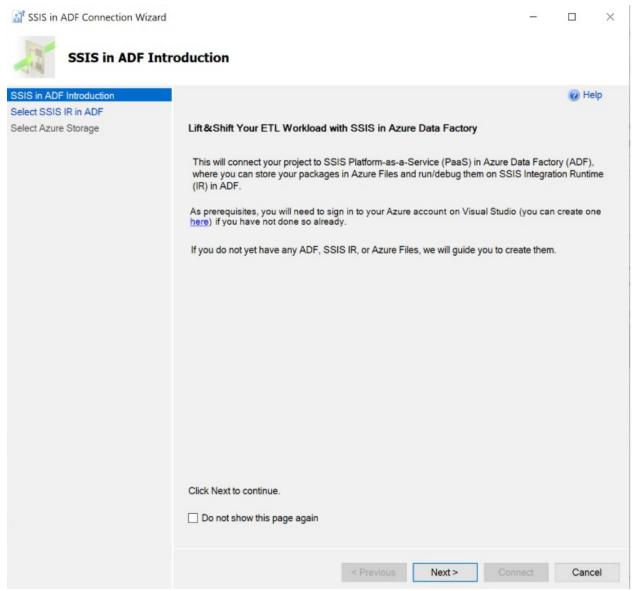
Enabling SSIS in Azure Data Factory

This opens up the Azure-Enabled Project Wizard where you can select the Visual Studio configuration to apply package execution settings in Azure. Select the target version supported by the Azure-SSIS Integration Runtime (IR), which is currently SQL Server 2017, and finally connect to the Azure-SSIS IR. By connecting your Azure-enabled projects to SSIS in ADF, you can upload your packages into Azure Files and run them on Azure-SSIS IR. It also provides you with the capability to lift and shift SSIS packages to

SSIS in ADF connection wizard

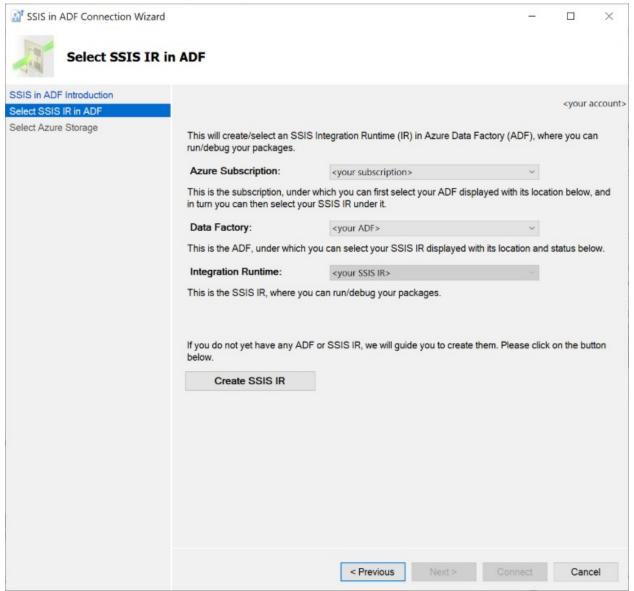
Lifting and shifting SSIS packages is achieved by running the SSIS in ADF Connection Wizard. This is a two-step wizard that takes SSIS projects stored in SSIS, and store them in Azure Files in a storage account that can then be run in an Azure-SSIS Integration Runtime.

On the SSIS in ADF Introduction page, review the introduction and click on the Next button to continue.



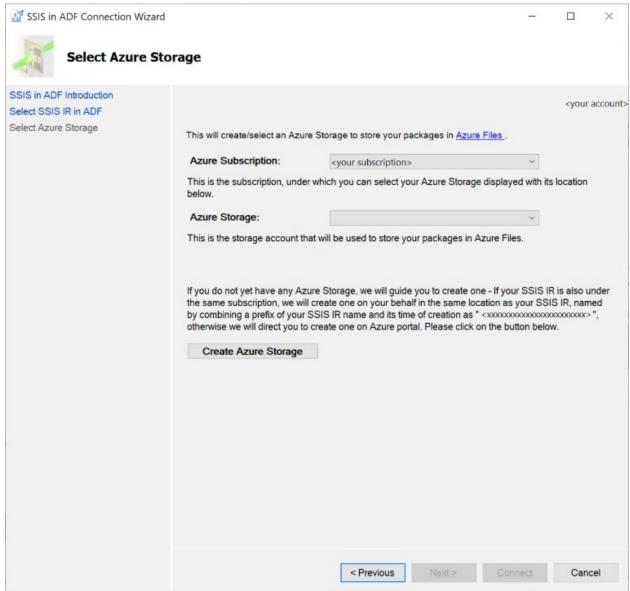
SSIS in ADF Introduction screen

On the Select SSIS IR in ADF page, select your existing ADF and Azure-SSIS IR to run packages or create new ones if you do not have any.



Select the SSIS IT in ADF

On the **Select Azure Storage** page, select your existing Azure Storage account to upload packages into Azure Files or create a new one if you do not have any.



Select Azure Storage

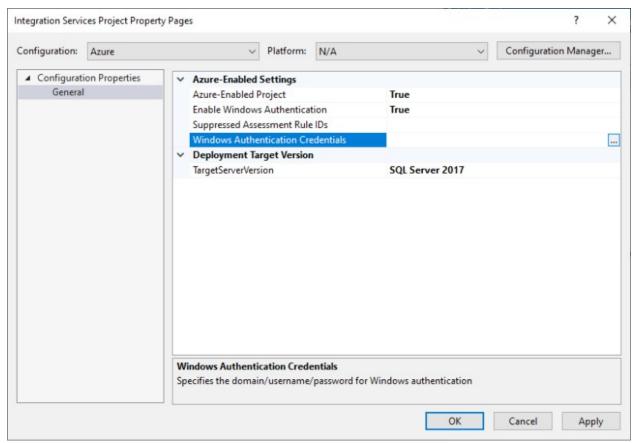
Click on the Connect button to complete your connection.

Executing SSIS packages

There are pre-execution steps that you should perform before executing an SSIS package. These include a variety of setting such as project settings and authentication settings for the SSIS package. This can be done by performing the following steps

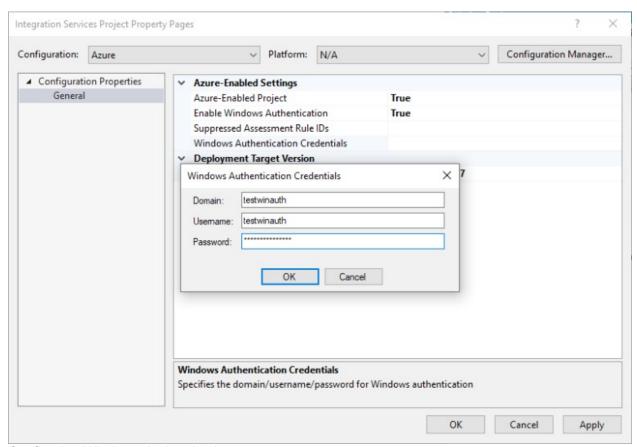
Right-click on the project node in Solution Explorer panel of SSDT to pop up a menu and then selecting the **Azure-Enabled Settings** menu

item under the SSIS in Azure Data Factory submenu. Click the Enable Windows Authentication drop-down list and choose True. Then click the edit button for Windows Authentication Credentials option to enter the credentials.



Integration Services Project Property Pages

Provide credentials in the Windows Authentication Credentials editor.



Configuring Windows Authentication

With these settings configured, you can then execute the packages in Azure from within SSDT by either clicking on the Start button, and then clicking on Execute in Azure. Alternatively right-click on the package node in Solution Explorer panel of SSDT to pop up a menu and select the Execute Package in Azure menu item.

