

Azure SQL MI PowerBI

March 2019

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Introduction

In this lab, you will learn key concepts in data integration centered on orchestrating and operationalizing data movement and data transformation activities, as well as cloud-based SSIS package execution via Azure Data Factory's Integration Runtime feature. You will establish connections with both on-premises SQL Server Databases, as well as Managed Instances in the cloud, to allow the creation of data pipelines that run from your sources, all the way to your destination. Then, you will lift-and-shift native SSIS packages onto the cloud to allow for more seamless control and monitoring during executions. Finally, you'll complete the journey of your data by establishing a connection to a live Power BI Desktop report, where you will be able to visualize directly the various components and insights contained in your data.

Understanding Integration Runtime in Azure Data Factory

Integration Runtime (IR) *is the **compute infrastructure** used by Azure Data Factory to provide the following data integration capabilities across different network environments:*

- **Data Movement:** Moving data between data stores in public and private networks.
- **Activity Dispatch:** Monitoring transformation activities running on a variety of compute services.
- **SSIS Package Execution:** Natively execute SQL Server Integration Services (SSIS) packages in a managed Azure compute environment.

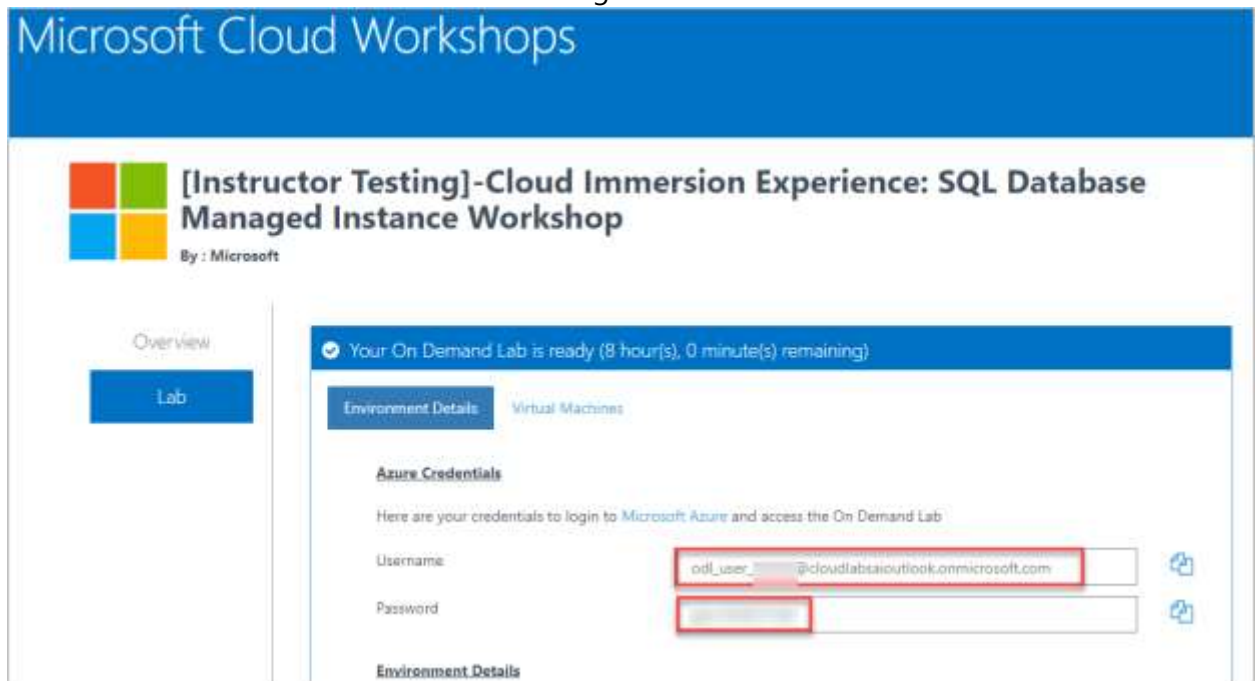
Azure Data Factory offers three types of Integration Runtimes that serve specific data integration capabilities; Azure, Self-hosted, and **Azure-SSIS**. The last type supports the previously mentioned **SSIS Package Execution**, which is what we'll be using in this section of the lab.

SQL Managed Instance – Power BI

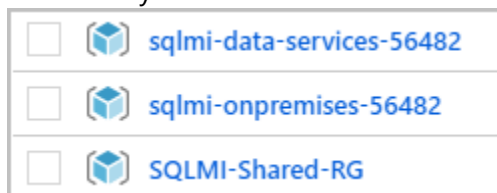
Exercise 0: Provisioning a self-service runtime environment for Managed Instance data movement.

Create a Self-Hosted Integration Runtime for Managed Instance:

1. Launch a browser and navigate to <https://portal.azure.com>. Once prompted, login with the Azure Credentials from the Lab Details Page.



2. In the Stay signed in? pop-up window, click No
3. In the Welcome to Microsoft Azure pop-up window, click Maybe Later
Note: If you receive a pop-up for Azure Advisor, click the X in the top right corner of the pop-up to close it.
4. You will be directed to the dashboard.
5. From the left side of the Page, select **Resource Groups**
6. Note that you will have access to three Resource groups:

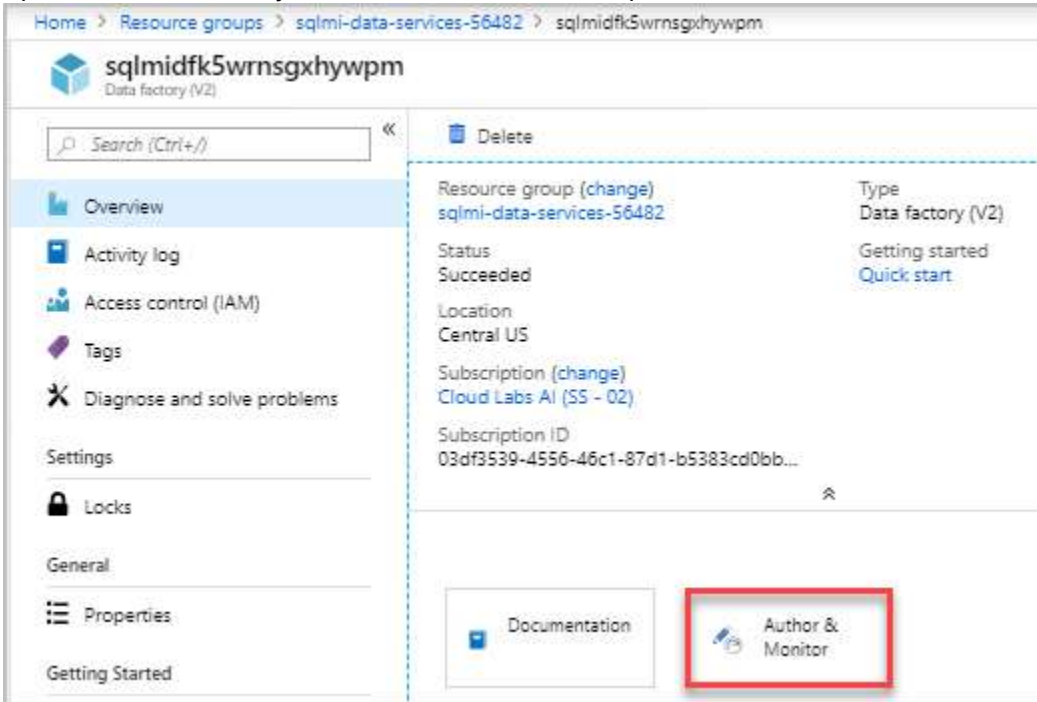


7. Select resource group starting with **sqlmi-data-services-**

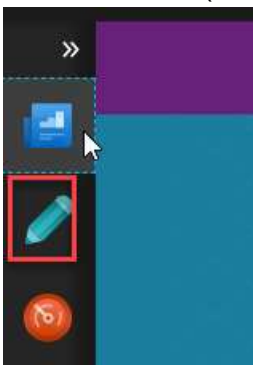
8. From the overview blade of the Resource group, **select** the resource with type **Data Factory (V2)** from the resources:



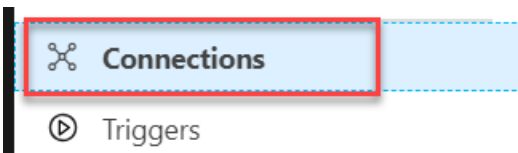
9. From the overview blade of the Data Factory, navigate to the Author & Monitor tile to open the Data Factory user Interface (UI) on a separate tab.



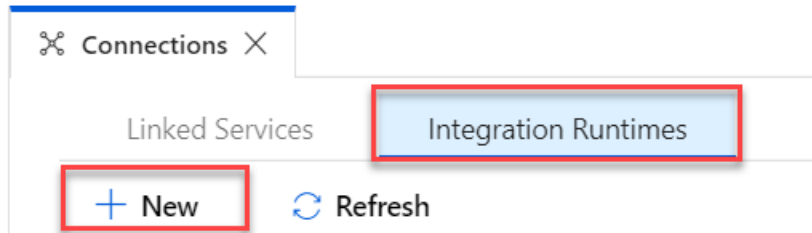
10. Click on Author(Pencil Icon)



11.
12. Click on Connections



13.
14. Select Integration Runtimes and Click on +New



15.

16.

17. Select Perform data movement and dispatch activities to external computers



18.

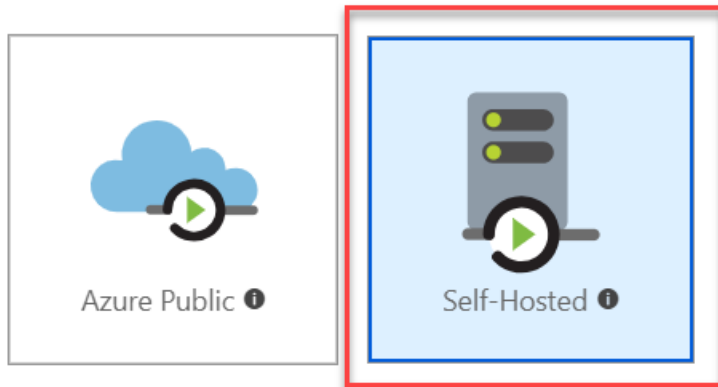
19.

20. Select Self-Hosted and Click Next.

Integration Runtime Setup

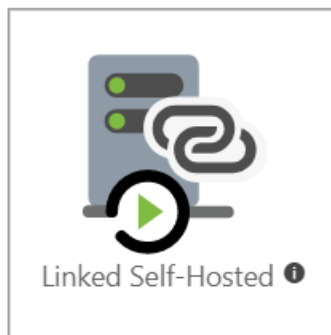


Choose the network environment of the data source/destination or external compute to which the integration runtime will connect to for data movement or dispatch activities:



External Resources:

You can use an existing self-hosted integration runtime that exists in another Data Factory. This way you can reuse your existing infrastructure where self-hosted integration runtime is setup.



- 21.
22. Provide SQLMI-RunTime as name and click next

Integration Runtime Setup



Private network support is realized by installing integration runtime to machines in the same on-premises network/VNET as the resource the integration runtime is connecting to. Follow below steps to register and install integration runtime on your self-hosted machines.

Name *

SQLMI-RunTime



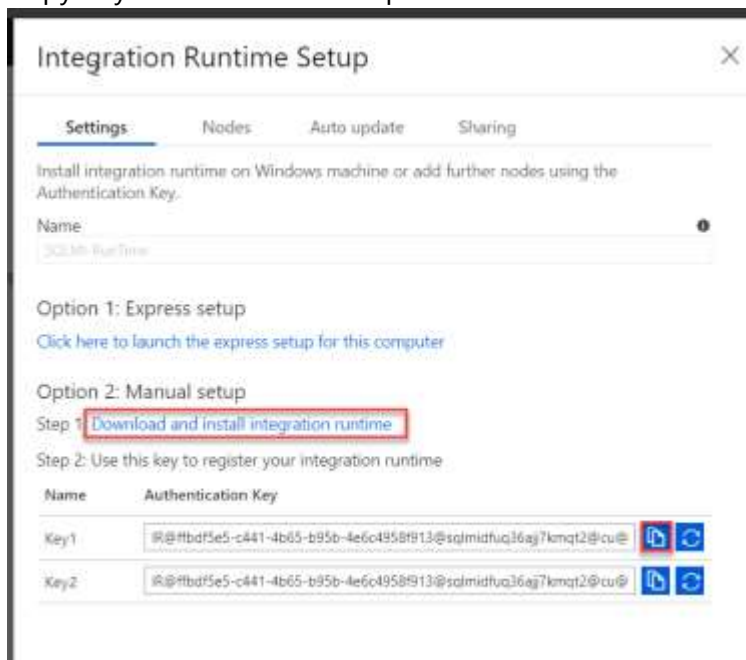
Description

Enter description here...

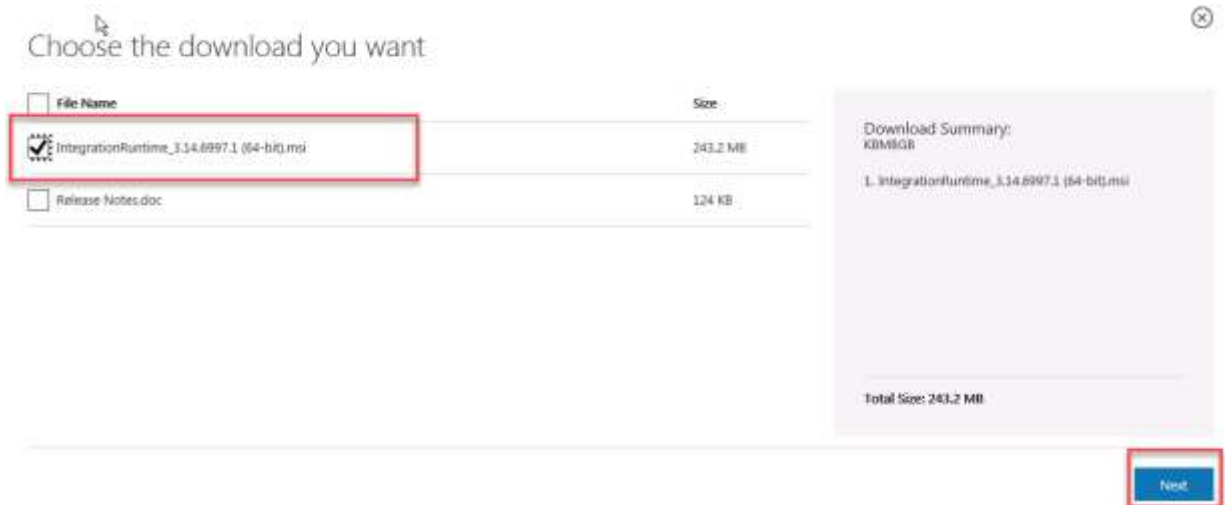
Type

Self-Hosted

- 23.
24. Copy Keys and save in a safe place.

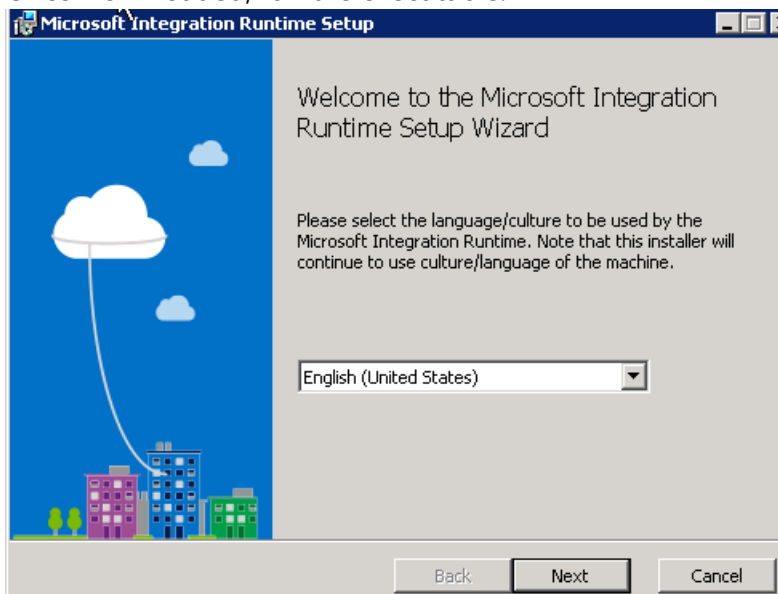


- 25.
26. Now, we'll install the runtime binaries on the SQL Server VM.
27. Login to SQL Server Virtual Machine using Remote Desktop and Launch a browser window.
28. Download the manual setup file from <https://www.microsoft.com/en-us/download/details.aspx?id=39717>



29.

30. Once Downloaded, run the executable.



31.

32. Click Next

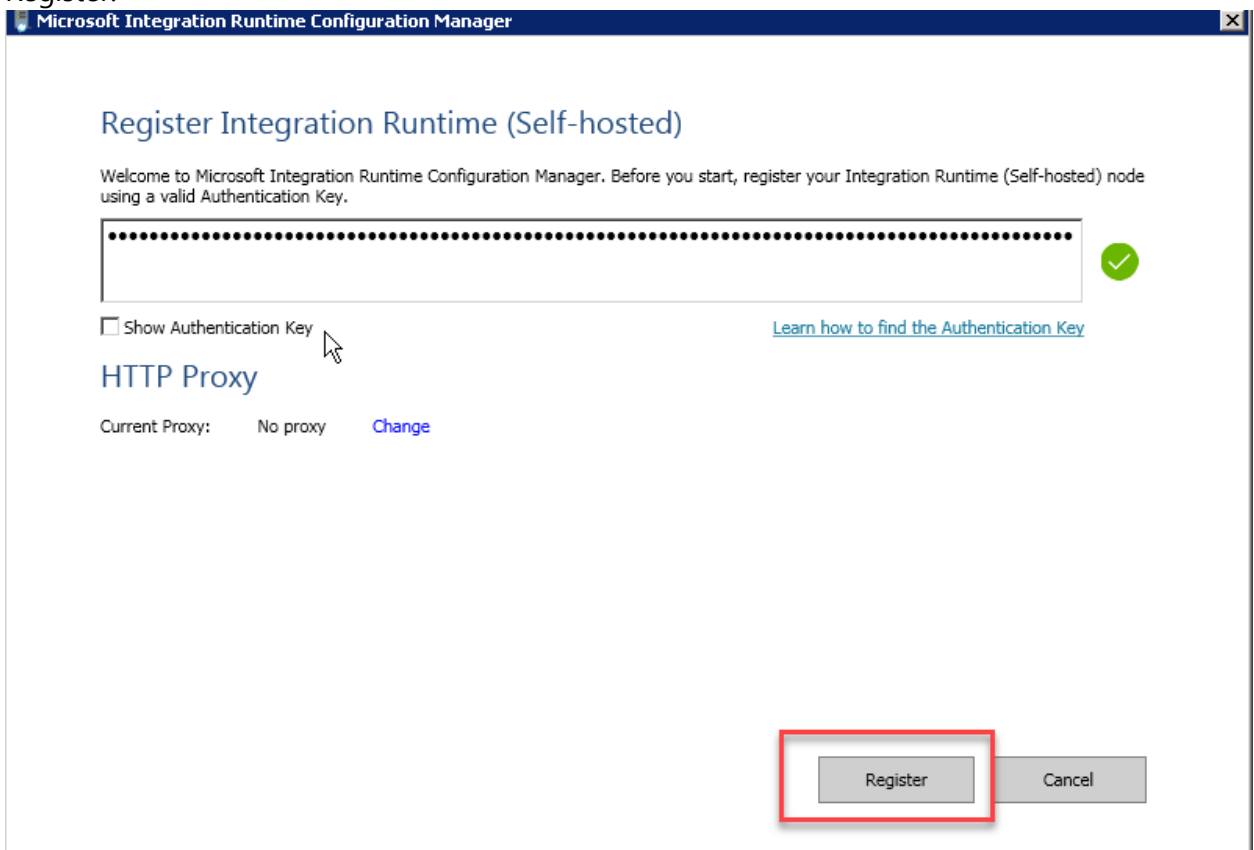
33. Accept the terms and conditions and proceed.

34. Accept Default Location and Proceed further for installation

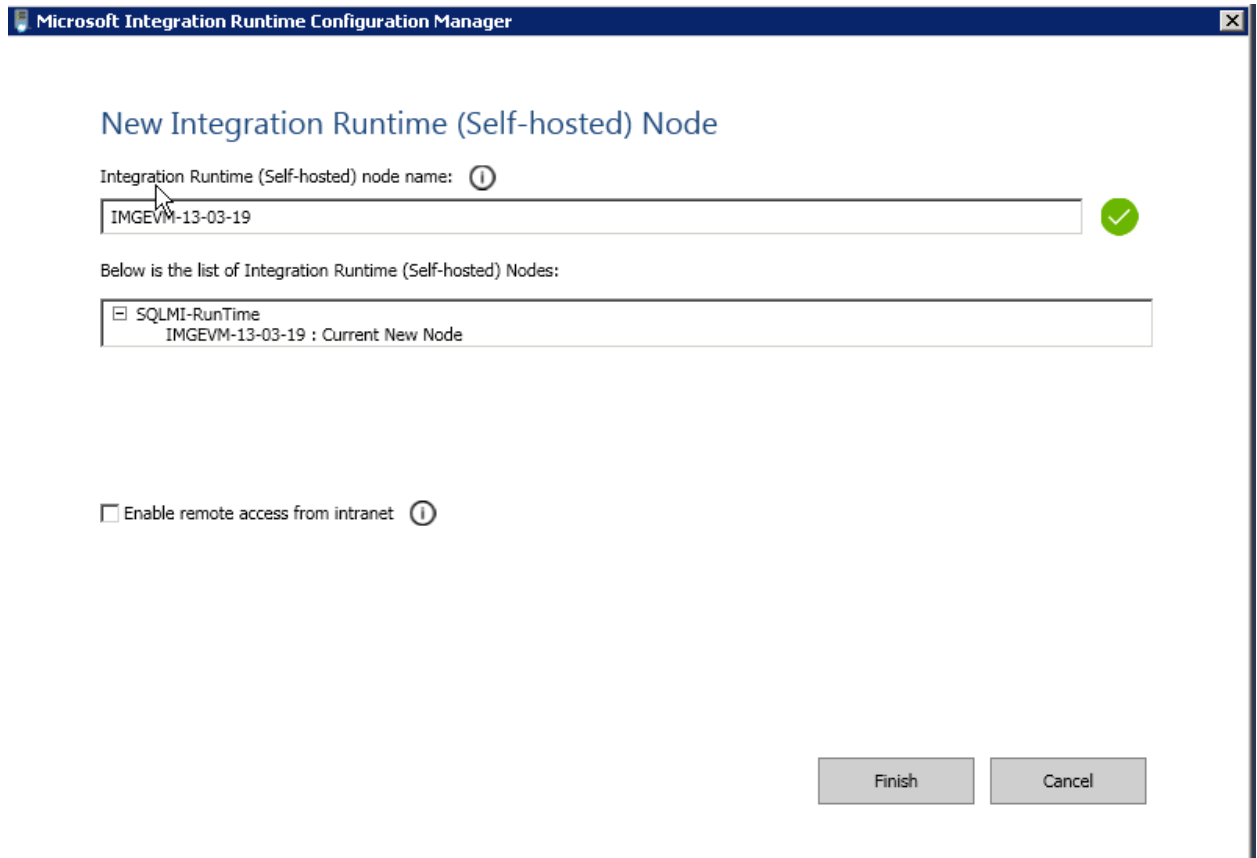
35. Click Finish once completed.



36. Upon Finishing, it'll launch the Configuration Wizard. Enter the key you copied and click Register.



37. Review the settings and click Finish



38. Click Close once configuration is completed.

39. Now, In Azure Data Factory you should see this Integration Runtime as Running.



40. Self-Hosted Integration run time setup for SQL managed Instance is now completed.

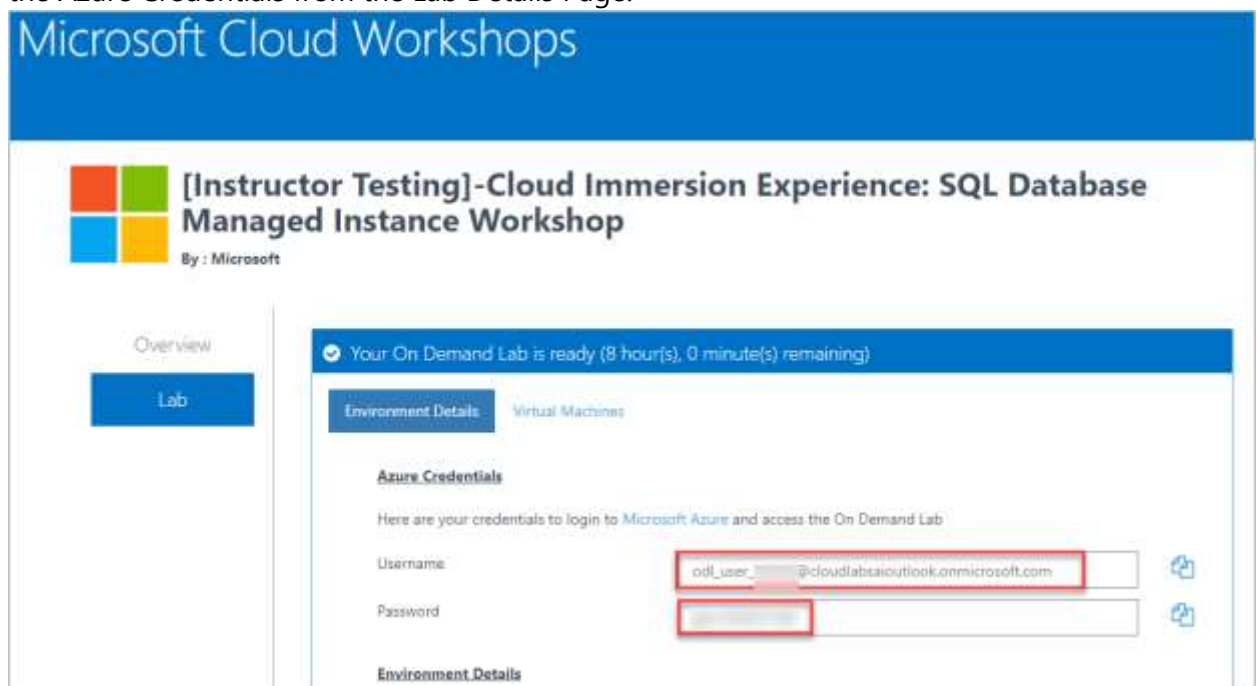
Exercise 2: Provisioning an Azure-SSIS Integration Runtime in Azure Data Factory

Overview

This section will provide you with the ability to use the Azure Portal to create the foundation needed for the Integration Runtime's infrastructure to effectively host and manage the executions of SSIS packages residing virtually anywhere in the world.




Task 1: Configure Integration Runtime Setup

41. Launch a browser and navigate to <https://portal.azure.com>. Once prompted, login with the Azure Credentials from the Lab Details Page.



42. In the Stay signed in? pop-up window, click No
43. In the Welcome to Microsoft Azure pop-up window, click Maybe Later
Note: If you receive a pop-up for Azure Advisor, click the X in the top right corner of the pop-up to close it.
44. You will be directed to the dashboard.
45. From the left side of the Page, select **Resource Groups**

46. Note that you will have access to three Resource groups:

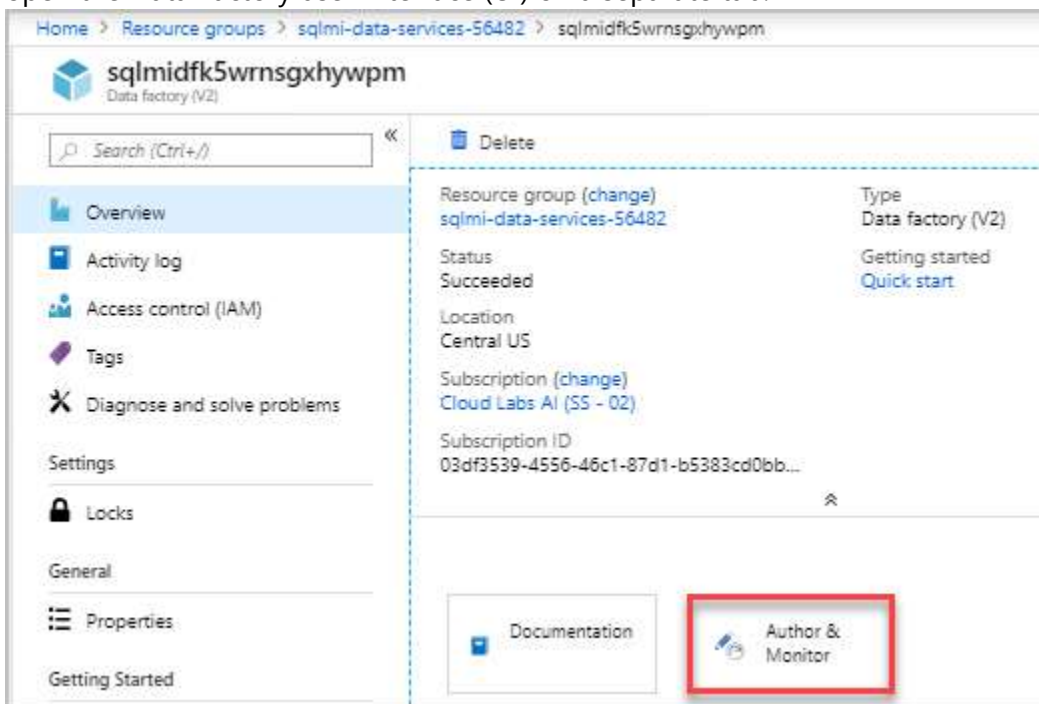
<input type="checkbox"/>	 sqlmi-data-services-56482
<input type="checkbox"/>	 sqlmi-onpremises-56482
<input type="checkbox"/>	 SQLMI-Shared-RG

47. Select resource group starting with **sqlmi-data-services-**

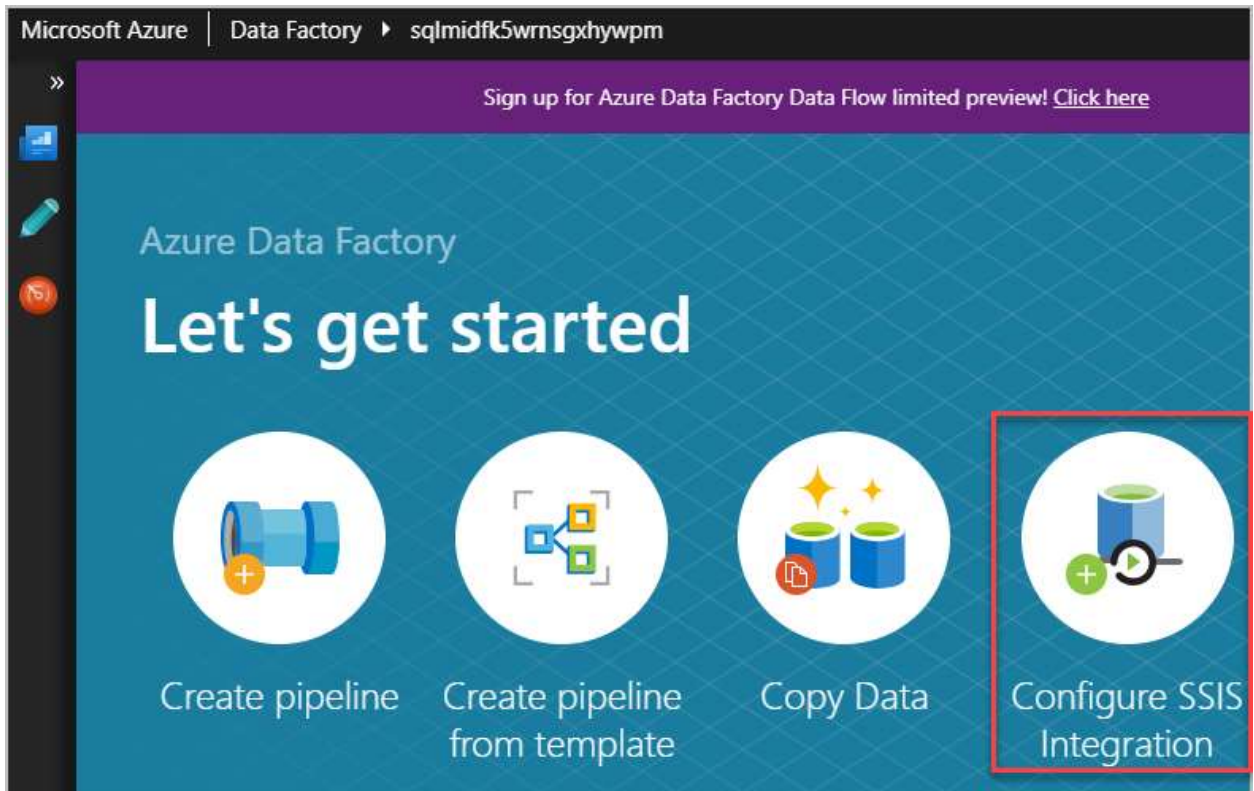
48. From the overview blade of the Resource group, **select** the resource with type **Data Factory (V2)** from the resources:



49. From the overview blade of the Data Factory, navigate to the Author & Monitor tile to open the Data Factory user Interface (UI) on a separate tab.



50. On the **Let's get started** page, click the **Configure SSIS Integration Runtime** tile



51. On the **General Settings** form of Integration Runtime Setup page, enter the following information:
- Name:** integrationRuntime1
 - Description:** Leave blank
 - Location:** Select **location of the resource group** from the dropdown

NOTE: The location does not need to be that of your data factory's, but it should be the same as your Azure SQL Database/Managed Instance server's where your **SSISDB** is to be hosted, allowing easy access without incurring excessive traffic.

- Node Size:** Select **Standard_E8_v3** from the dropdown *This node's high memory-to-CPU ratio results in superior performance when working with **large database servers** - which this lab will. Another case where selecting a large node size would be beneficial is when you anticipate running **compute/memory-intensive SSIS packages**
- Node Number:** Select **1** by using the slider. *The number of nodes you select determines the cluster size of your IR, which impacts performance when running parallel SSIS packages. **Select a large cluster if you plan on running many packages in parallel***
- Edition/License:** Select **Enterprise** from the dropdown, as it will allow the use of advanced/premium features on your integration runtime, showcasing various features during this lab
- Save Money:** Click **No**

Integration Runtime Setup

General Settings

Name *

integrationRuntime1

Description

Type

Azure-SSIS

Location *

Central US

Node Size *

Standard_E8_v3 (8 Core(s), 65536 MB)

Node Number *

1

Edition/License *

Enterprise

Save Money

Save with a license you already own. Already have a SQL Server license?

Yes

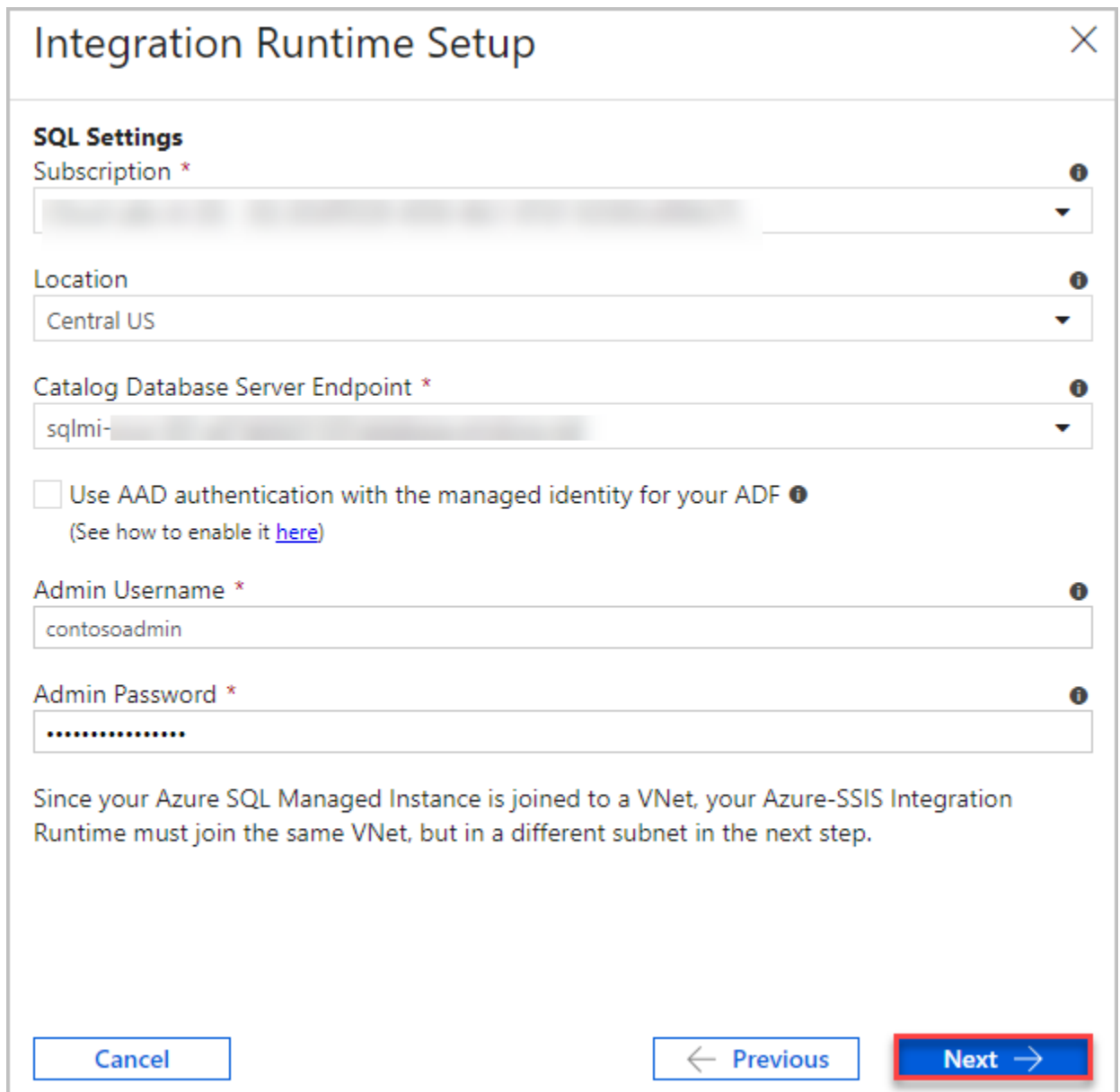
No

Cancel

Next →

52. Click **Next** to bring up the **SQL Settings** portion of Integration Runtime Setup page, and provide the following information:
53. **Subscription:** Select your default subscription
54. **Location:** Select your resource group location from the dropdown, as it is recommended that you select the same location of your integration runtime
55. **Catalog Database Server Endpoint:** Select the available Database Server Endpoint from the Dropdown.
56. **Do not** check **Use AAD authentication with your ADF MSI**
57. Admin Username: **contosoadmin**

58. Admin Password: **IAE5fAijit0w^rDM**



The image shows a 'Integration Runtime Setup' dialog box with a close button (X) in the top right corner. It contains several configuration fields under the 'SQL Settings' section:

- Subscription ***: A dropdown menu with a blurred selection.
- Location**: A dropdown menu with 'Central US' selected.
- Catalog Database Server Endpoint ***: A dropdown menu with 'sqlmi-' selected.
- ☐ **Use AAD authentication with the managed identity for your ADF** ⓘ
(See how to enable it [here](#))
- Admin Username ***: A text field containing 'contosoadmin'.
- Admin Password ***: A password field with masked characters (dots).

Below the fields, there is a note: 'Since your Azure SQL Managed Instance is joined to a VNet, your Azure-SSIS Integration Runtime must join the same VNet, but in a different subnet in the next step.'

At the bottom, there are three buttons: 'Cancel', '← Previous', and 'Next →'. The 'Next →' button is highlighted with a red border.

59. **Maximum Parallel Executions Per Node:** select **1** from the dropdown box

NOTE: the maximum number of packages to execute concurrently per node in your integration runtime cluster. Only supported package numbers are displayed. Select a low number, if you want to use more than one cores to run a single large/heavy-weight package that is compute/memory -intensive. Select a high number, if you want to run one or more small/light-weight packages in a single core.

60. **Custom Setup Container SAS URI:** Leave blank

61. **Select a VNet...:** Leave checked

62. Select the subscription from the dropdown.

Integration Runtime Setup

Advanced Settings

Maximum Parallel Executions Per Node *

1

Custom Setup Container SAS URIDiv>

☒ Select a VNet for your Azure-SSIS Integration Runtime to join and allow ADF to create certain network resources
(See more info [here](#))

Subscription *

Cloud Labs AI (SS - 02) (03df3539-4556-46c1-87d1-b5383cd0bb27)

Location *

Central US

Type *

Azure Resource Manager Virtual Network

VNet Name *

SQLMI-VNET-Shared

Subnet Name *

sqlmi-dms-subnet

Cancel

VNet Validation

← Previous

Next

63. Click **VNet Validation** and if successful, click **Next**

✓ Validation successful!

Cancel

VNet Validation

64. Click **Finish** to start the creation of your integration runtime

Integration Runtime Setup

Summary

Your Azure-SSIS Integration Runtime (IR) is created with the following settings:

Azure Data Factory Settings

- **Subscription:** 03df3539-4556-46c1-87d1-b5383cd0bb27
- **Resource Group:** sqlmi-data-services-56482
- **Name:** sqlmidfk5wrnsgxhywpm
- **Location:** centralus

General Settings

- **Name:** integrationRuntime1
- **Location:** Central US
- **Node Size:** Standard_E8_v3
- **Node Number:** 1
- **Edition:** Enterprise
- **Azure Hybrid Benefit:** LicenseIncluded

SQL Settings

- **Catalog Database Server Endpoint:** sqlmi-scus-001.a07ab820155f.database.windows.net
- **Catalog Database Server Location:** centralus

Advanced Settings

- **Maximum Parallel Executions Per Node:** 1
- **VNet Name:** SQLMI-VNET-Shared
- **Subnet Name:** sqlmi-dms-subnet

If you want to change any of the above settings, click **Previous** to do so.

Cancel

← Previous

Finish

65. On the **Connections** tab, switch to **Integration Runtimes** if needed. Select **Refresh** to refresh the status

The screenshot shows the Microsoft Azure Data Factory portal. The top navigation bar includes 'Data Factory' and the resource name 'sqlmidfk5wrnsgxhywpm'. The 'Connections' tab is active, and the 'Integration Runtimes' sub-tab is selected, highlighted with a red box. The 'Refresh' button is also highlighted. Below the main view, a detailed table of integration runtimes is displayed.

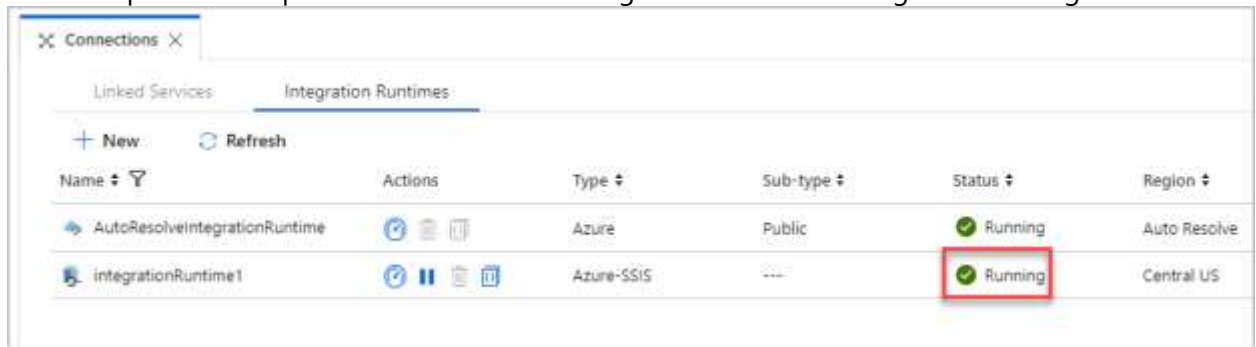
Name	Actions	Type	Sub-type	Status	Region
AutoResolveIntegrationRuntime	[Stop] [Start] [Edit] [Delete]	Azure	Public	Running	Auto Resolve
integrationRuntime1	[Stop] [Start] [Edit] [Delete]	Azure-SSIS	---	Starting	Central US







NOTE: This process takes approximately **20 to 30 minutes** to complete due to the Azure Feature Pack for SSIS and the Access Redistributable installations. This is taking place while the Data Factory service connects to your Azure SQL Database server to prepare the **SSIS Catalog** (SSISDB database).

NOTE: Use the links in the **Actions** column to stop/start, edit, or delete the integration runtime. Use the last link to view JSON code for the integration runtime. The edit and delete buttons are enabled only when the IR is stopped.

66. Please continue with the lab while the integration runtime installs

67. Once the process completes the status of the integrationRuntime1 changes to Running.



Name	Actions	Type	Sub-type	Status	Region
AutoResolveIntegrationRuntime	  	Azure	Public	Running	Auto Resolve
integrationRuntime1	  	Azure-SSIS	---	Running	Central US

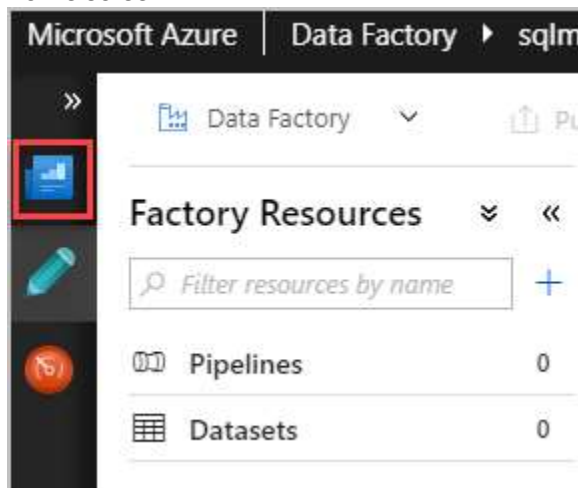
Exercise 2: Use the Copy Data Tool to Create and Run Data Pipeline

Overview

In this exercise, we'll use copy data tool to copy data from on-prem SQL Server to SQL MI.

Task 1:

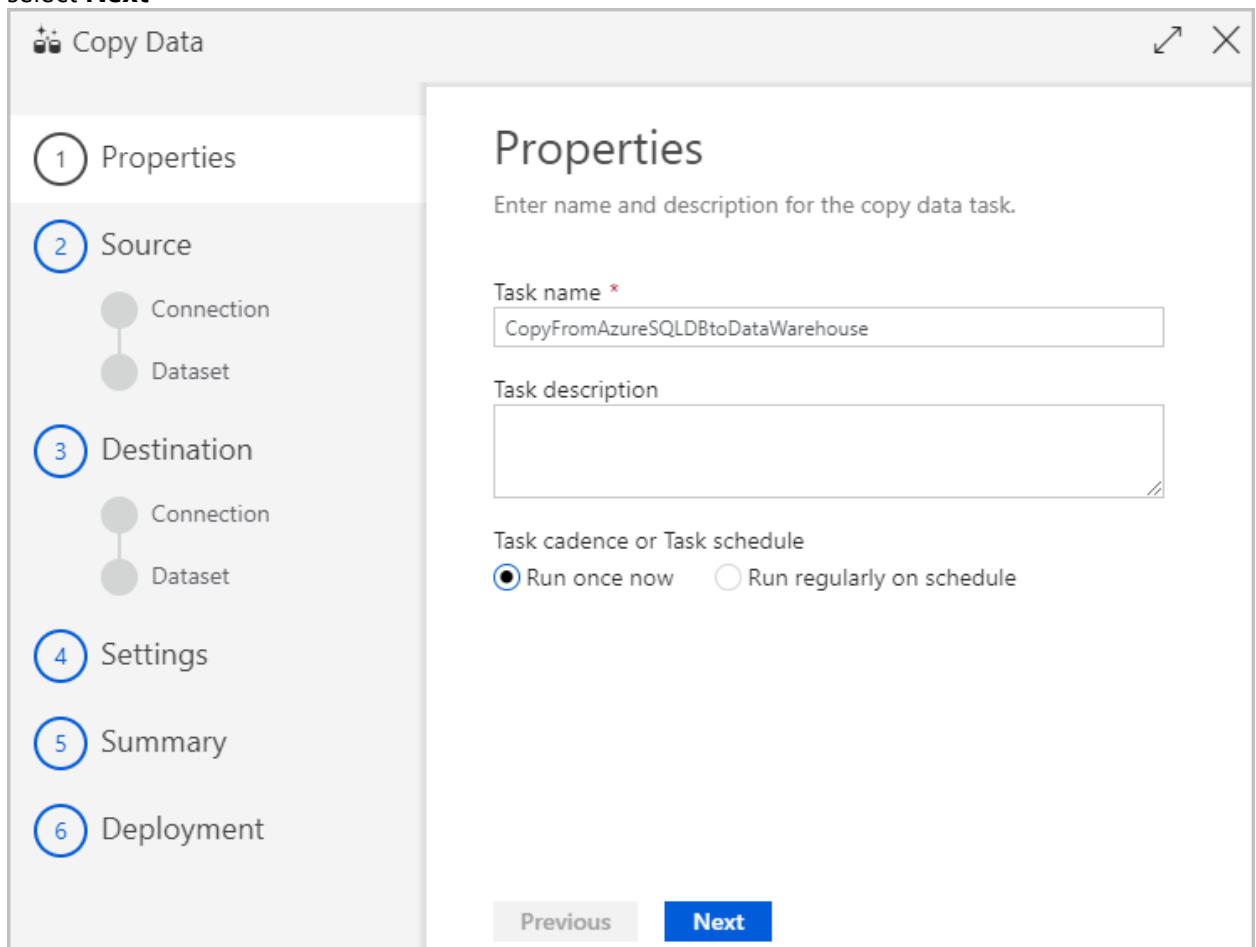
1. On the left-hand column of the screen, click the blue **Data Factory** icon to return to the home screen



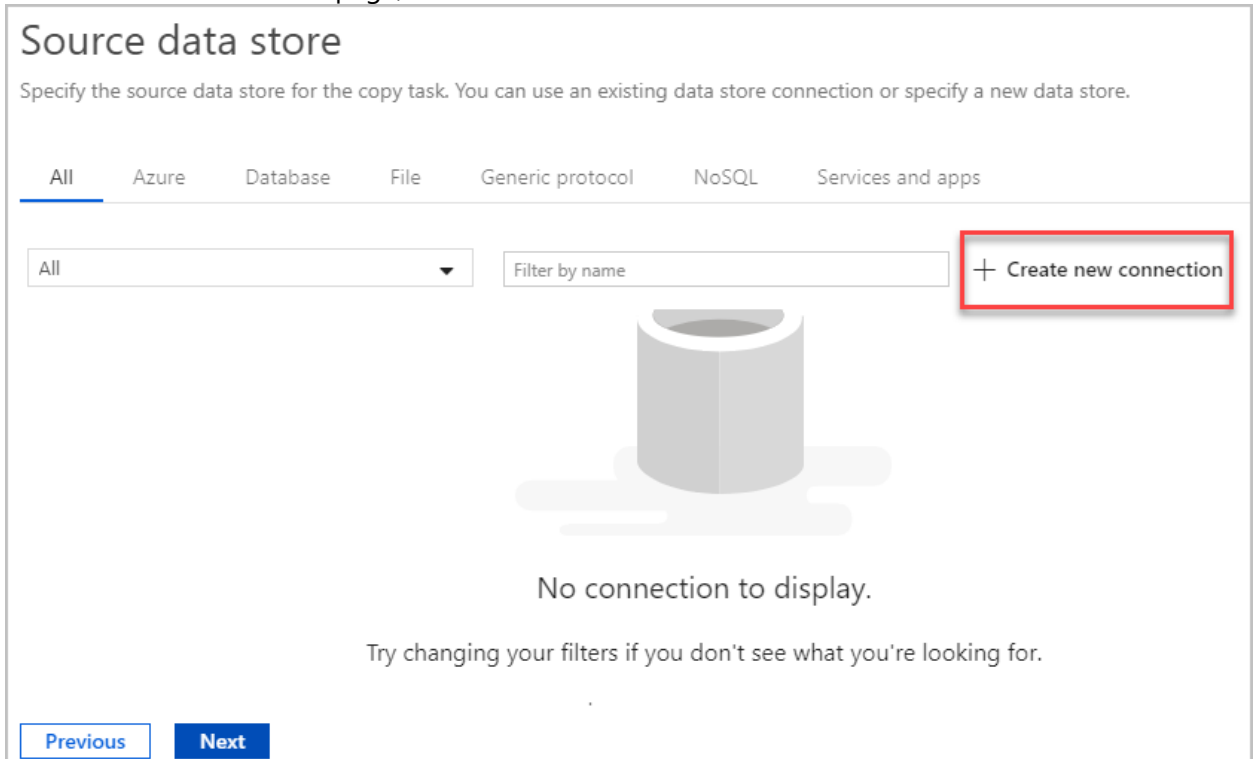
2. On the **Let's get started** page, select the **Copy Data** tile to launch the **Copy Data tool**



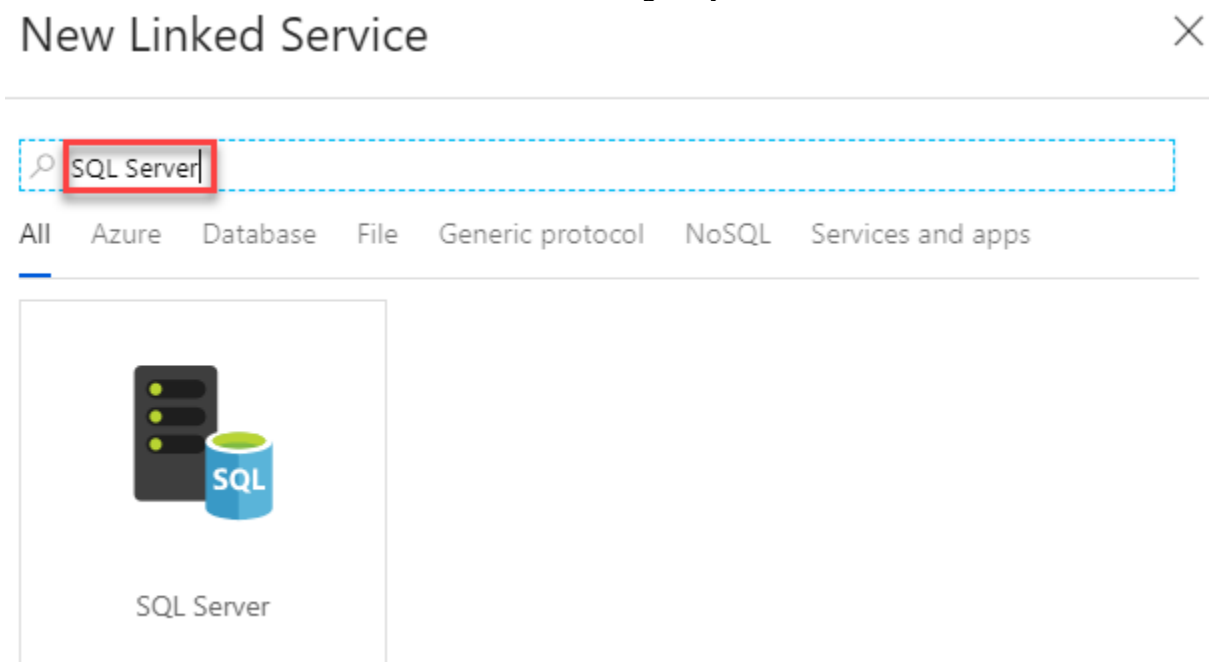
3. On the **Properties** page, under **Task name**, enter **CopyFromAzureSQLDBtoMI**, then select **Next**

A screenshot of the "Copy Data" tool's "Properties" page. The left sidebar shows a progress bar with six steps: 1 Properties, 2 Source, 3 Destination, 4 Settings, 5 Summary, and 6 Deployment. Step 2 is currently selected. Under "Source", "Connection" and "Dataset" are listed. Under "Destination", "Connection" and "Dataset" are listed. The main area is titled "Properties" and contains the following fields: "Task name" with a red asterisk and a text box containing "CopyFromAzureSQLDBtoDataWarehouse"; "Task description" with a large text area; and "Task cadence or Task schedule" with two radio buttons: "Run once now" (selected) and "Run regularly on schedule". At the bottom, there are "Previous" and "Next" buttons.

4. On the **Source data store** page, click **+ Create new connection**



5. Search **SQL Server** and select **SQL Server** from the gallery, and then select **Continue**



6. On the New Linked Service page, enter the following information:
- a. **Name:** Enter **CopySourceService**
 - b. **Description:** Leave blank
 - c. **Connection via Integration Runtime:** Select **AutoResolveIntegrationRuntime**

- d. **Connection String or Azure Key Vault:** Select **Connection String**
- e. **Server name:** Provide SQL Server VM DNS Name
- f. **Database Name:** Provide **the database name of the database**
- g. **Authentication Type:** Select **SQL Authentication**
- h. **User name:** labuser
- i. **Password:** demopassword1!

←

New Linked Service (SQL Server)

×

CopySourceService

Description

Connect via integration runtime *

AutoResolveIntegrationRuntime

Connection String

Azure Key Vault

Server name *

.westus.cloudapp.azure.com

Database name *

AdventureWorksLT2008R2

Authentication type

SQL Authentication

User name *

labuser

Cancel

Test connection

Finish

- j. **Click on Test connection**

Test connection

Finish

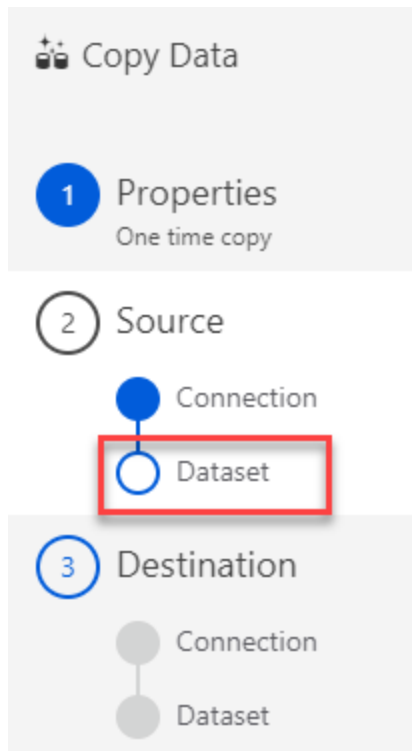
- k. Once connection is successful, Click on **Finish**

✓ Connection successful

Test connection

Finish

- 7. Select the newly created linked service as source, then click **on Dataset**



- On the **Select tables from which to copy the data or use a custom query** page, select the Table `[[SalesLT].[SalesOrderDetail]]` then click **next**

Select tables from which to copy the data or use a custom query.

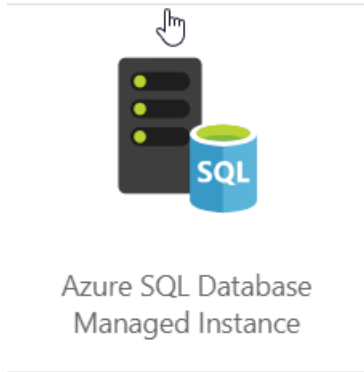
You can select multiple tables, or you can provide single custom query.

EXISTING TABLES **USE QUERY**

Filter by table name ☐ Show views

<input type="checkbox"/>	<input type="checkbox"/>	[SalesLT].[ProductModelProductDescription]
<input checked="" type="checkbox"/>	<input type="checkbox"/>	[SalesLT].[SalesOrderDetail]
<input type="checkbox"/>	<input type="checkbox"/>	[SalesLT].[SalesOrderHeader]

- On the **Destination data store** page, click + **Create new connection** to add a connection
- Select **Azure SQL Database Managed Instance** from the gallery, and then select **Continue**

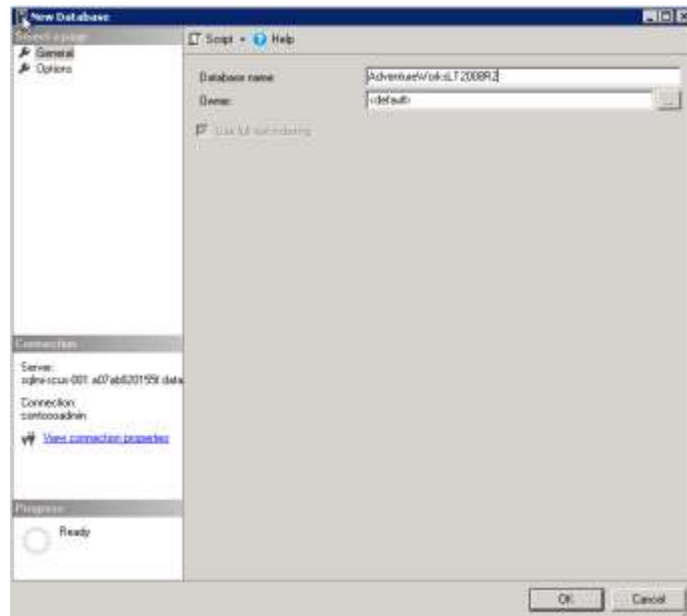


11. On the **New Linked Service** page, enter the following information:
- Name:** Enter **CopyDestinationService**
 - Description:** Leave blank
 - Connection via Integration Runtime:** Select **SQLMI-Runtime (Your previously created runtime)**
 - Connection String or Azure Key Vault:** Select **Connection String**
 - Server name:** Provide SQL MI Server Name
 - Database Name:** Enter the database you created earlier for this.
 - Authentication Type:** Select **SQL Authentication**
 - User name:** Enter **contosoadmin**
 - Password:** Enter **IAE5fAijit0w^rDM**
 - Click **Finish**

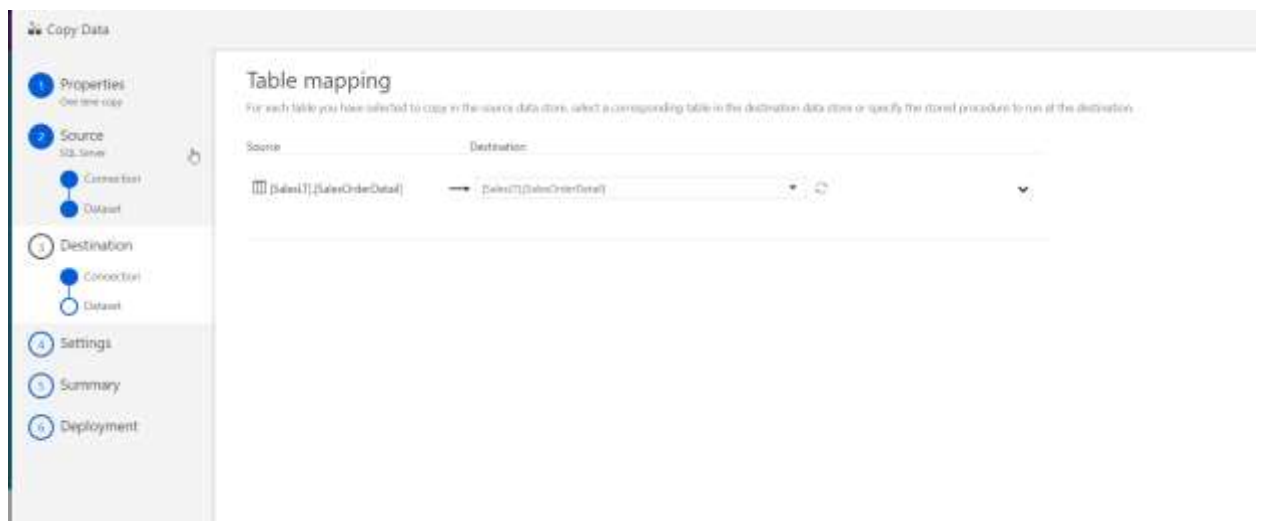
← New Linked Service (Azure SQL Database Mana... ×

Name *	CopyDestinationService
Description	
Connect via integration runtime *	SQLMI-RunTime
Edit Integration Runtime	
Connection String	Azure Key Vault
Server name *	sqlmi-rcus-001.a07ab820135f.database.windows.net
Database name *	AdventureWorksLT2008R2Amit
Authentication type	SQL Authentication
User name *	contosoadmin
Password	Azure Key Vault
Password *	*****
Additional connection properties	
+ New	
Annotations	
+ New	
Parameters	
Cancel	
Test connection	
Finish	

✓ Connection successful




12. Select the newly created linked service as sink, then click **Next**
13. On the **Table mapping** page, Select the corresponding table and select **Next**



14. On the **Column mapping** page, select **Next**
15. On the **Settings** page, Keep default and Click **Next**
16. On the **Summary** page, review the settings, and then select **Next**

Summary

You are running pipeline to copy data from SQL Server to SQL Server.



Properties [Edit](#)

Task name: CopyFromSQLDBtoM
Task description:

Source [Edit](#)

Connection name: SqlServer1
Dataset name: SourceDataset_0h6
Table name: [SalesLT].[SalesOrderDetail]

Destination [Edit](#)

Connection name: CopyDestinationService
Dataset name: DestinationDataset_0h6
Table name: [SalesLT].[SalesOrderDetail]


Copy settings [Edit](#)

Timeout: 7:00:00.00
Retry: 0
Retry interval: 30
Secure output: false
Secure input: false

[Previous](#) [Next](#)

17. On the **Deployment** page, select **Monitor** to monitor the pipeline (task)

NOTE: Notice that the Monitor tab on the left is automatically selected. The Actions column includes links to view activity run details and to rerun the pipeline



Deployment complete

- ▶ Creating Datasets ✓
- ▶ Creating Pipelines ✓
- ▶ Running Pipelines ✓

Datasets and pipelines have been created. You can now monitor and edit the copy pipelines or click finish to close the copy wizard.

[Edit Pipeline](#) [Monitor](#)

Exercise 4: Power BI

Overview

Task 1:

1. Connect to lab-jump-vm using RDP, You can copy the VM DNS Name using Lab details page/email or through azure portal.



2. Double click **Power BI Desktop** icon on desktop to launch **Power BI Desktop**
3. Note: If you have PowerBI desktop installed in your local machine, you can also use that optionally to complete this exercise
4. Upon opening the window, a **Welcome to Power BI Desktop** pop-up will appear. Click on Sign in at the bottom.

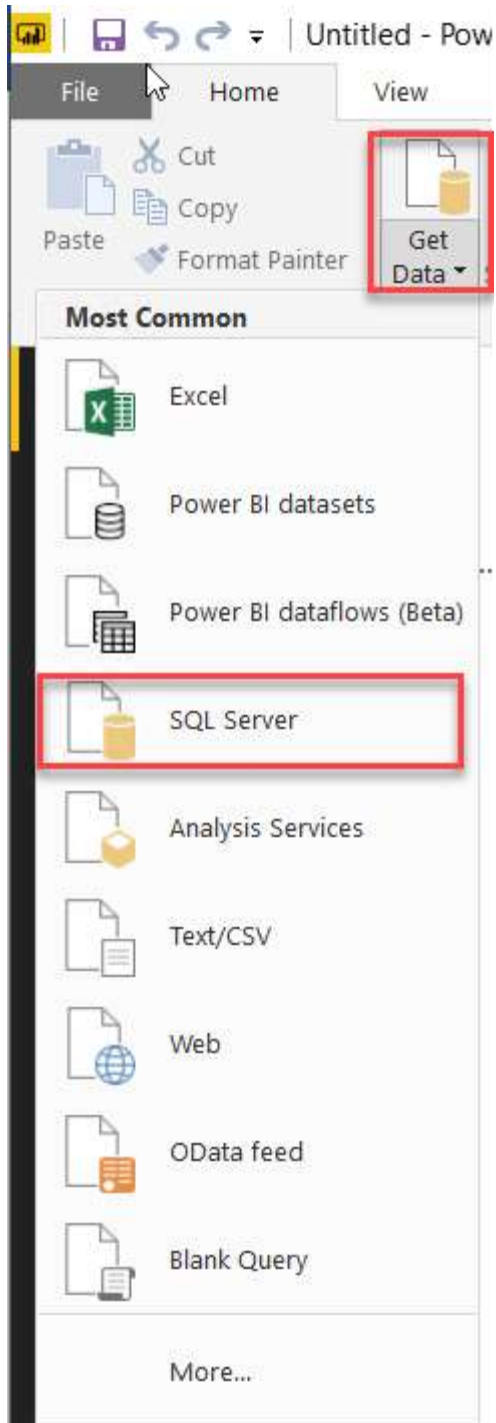


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Microsoft may use your contact information to provide updates and special offers about Business Intelligence and other Microsoft products and services. You can unsubscribe at any time. To learn more you can read the [privacy statement](#).

[Already have a Power BI account? Sign in](#)

5. Login with the Azure Username and Password you received upon signup.
6. On the opening screen for Power BI Desktop, click **Get data**,
7. On the **Get Data** blade, click on **SQL Server database**



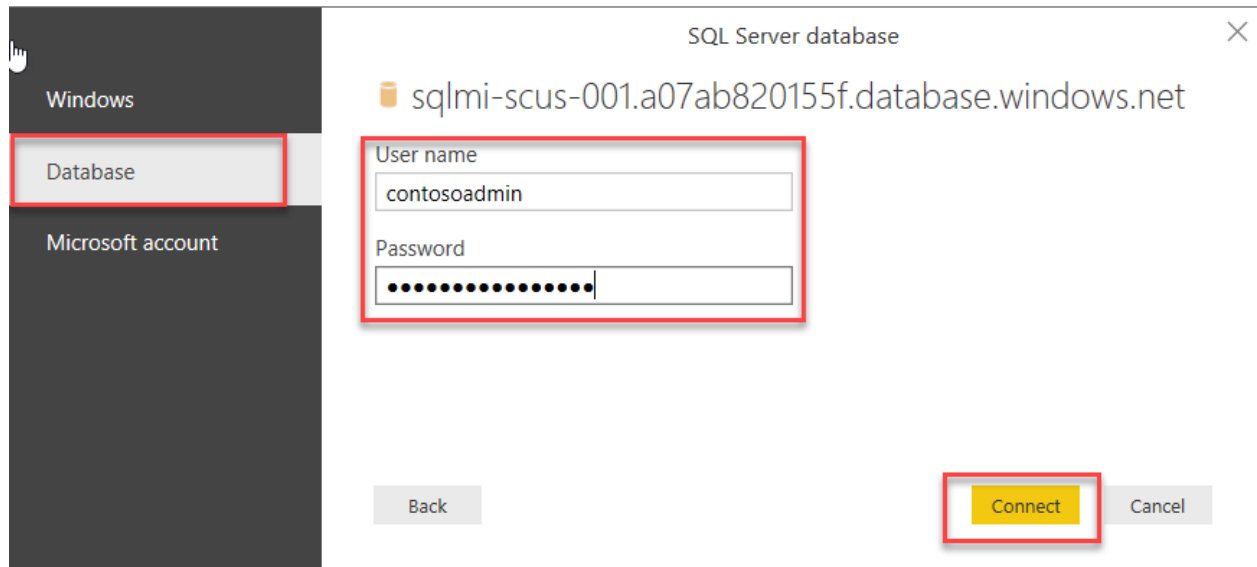
Note: This mimics the connection requirements for our datawarehouse to be able to communicate with Power BI the same way a SQL Server database would.

8. Click **Database**, then **SQL Server database**
9. Enter the Hostname of your SQL MI Instance under server
10. Make sure **Import** is selected under **Data Connectivity mode**
11. Click **OK**



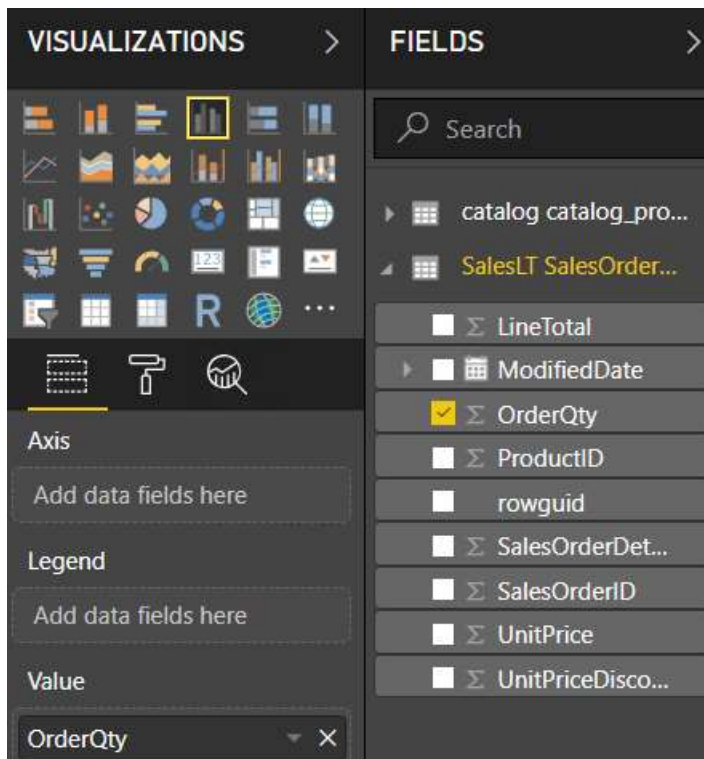
12. On the left-hand side of the window, click the **Database** tab

1. **User name:** Enter **contosoadmin**
2. **Password:** Enter **IAE5fAijit0w^rDM**



13. Under Databases, You can select AdventureWorksDB

14. Select the SalesOrderDetails table and move Click Load.



Exercise 3: Deploy and Run SSIS Packages from Azure Data Factory SSIS IR

Overview

I

Task 1:

Verify the Integration Runtime you created earlier in the lab has completed.

1. On the monitor page, click the **Integration Runtimes** tab near the top of the page
2. Verify that **IntegrationRunTime1** a Status of **Running**, If its status is **Starting** then wait for the Runtime to complete before continuing.

NOTE: Click the refresh button to update the status

NOTE: This process takes approximately **20 to 30 minutes**

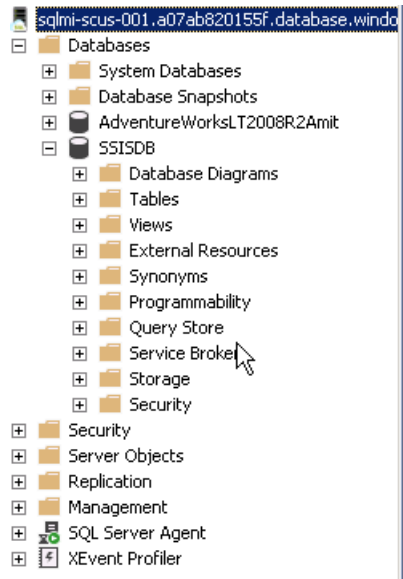
Connect to SSISDB

To deploy and then run the package on Azure SQL Database, you'll need to first **connect** to the SSIS Catalog database (SSISDB). To do so, complete the following steps:

1. Login to the SQL Server Virtual Machine via Remote desktop.
2. Double click **SSMS** icon on desktop to launch **SQL Server Management Studio**
3. In the **Connect to Server** dialog box, enter the following information:
4. **Server name:** **Hostname of your SQL Managed Instance**
5. **Authentication:** Select **SQL Server Authentication**
 1. **User name:** Enter **contosoadmin**
 2. **Password:** Enter **IAE5fAijit0w^rDM**
6. Click the **Options** button
7. Click on the **Connection Properties** tab
8. Click on the dropdown for selecting a **database**

NOTE: If a dialogue box appears and asks to connect first, click **Yes**.

9. Click **SSISDB** and make sure it's highlighted
10. Click **Ok**
11. In the **Object Window** on your left, navigate to **Integration Services Catalogs** and click the **Expand Object** icon (plus sign "+"), then expand the **SSISDB** object as well

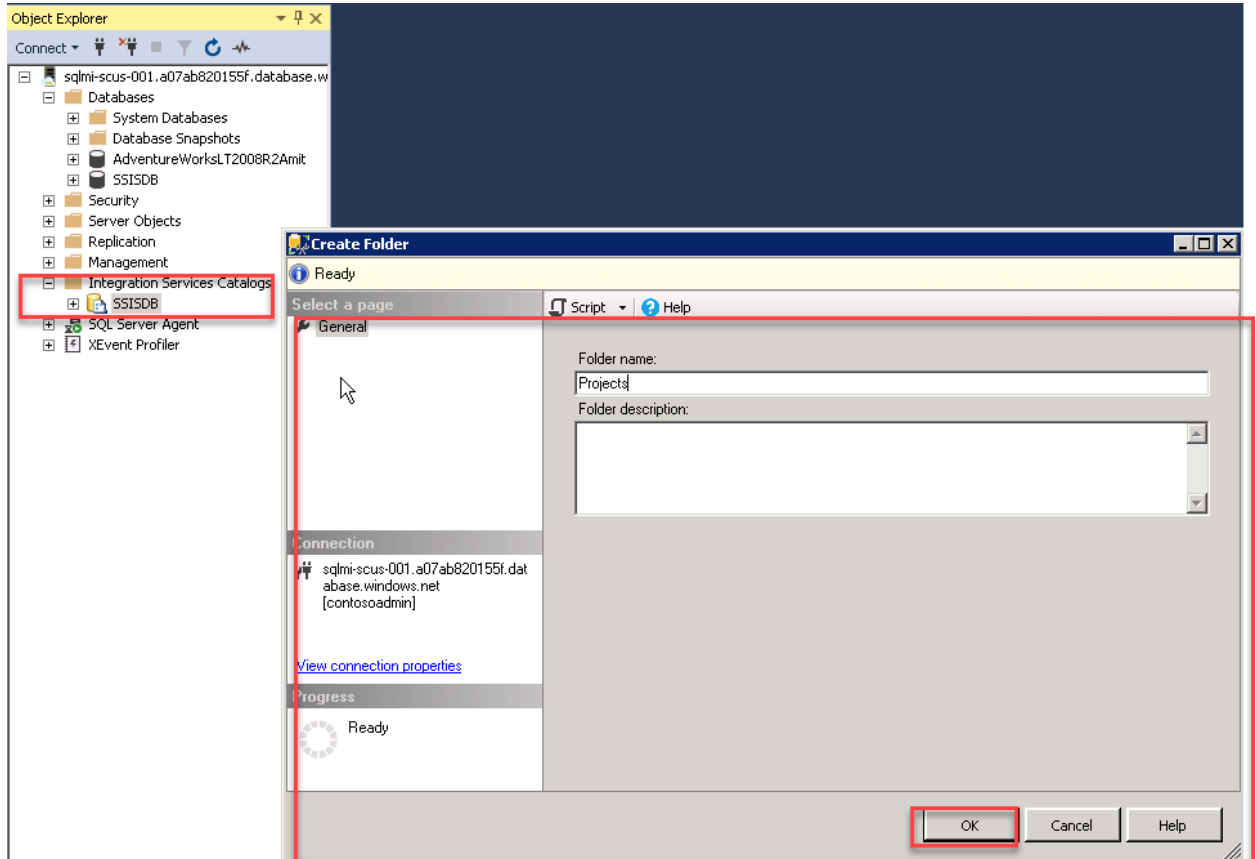


Deploying a Project/Package

14. Under Object Explorer, Browse through Integration Service Catalogue

Right click on **SSISDB**, select **Create Folder**

15. Name the folder **Myproject**, click **ok**



16. Expand My Project Click on the **Projects** node

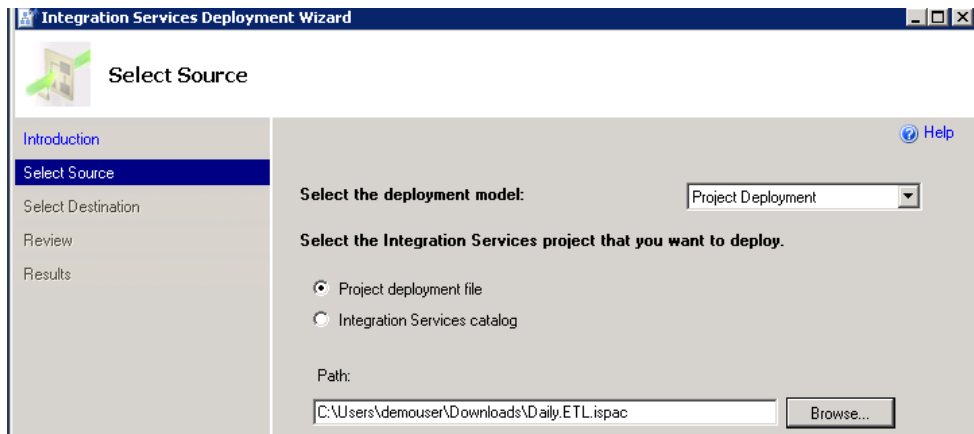
17. Right-click on the **Projects** node and select **Deploy project** to launch the **Services Deployment Wizard**

NOTE: You can deploy a project from the current catalog **or** from the file system.

18. On the **Introduction** page of the wizard, review the introduction, then click **Next** to open the **Select Source** page

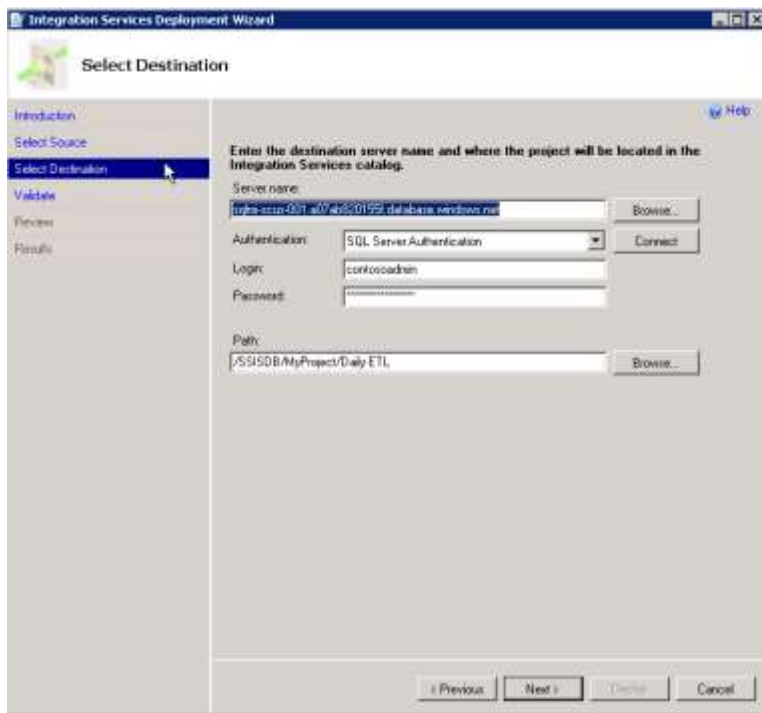
19. Download Daily.ETC.ispac from <https://github.com/Microsoft/sql-server-samples/releases/download/wide-world-importers-v1.0/Daily.ETL.ispac>

20. On the **Select Source** page, select **Project deployment file** and browse through file explorer to select latest download Daily.ETC.ispac file.

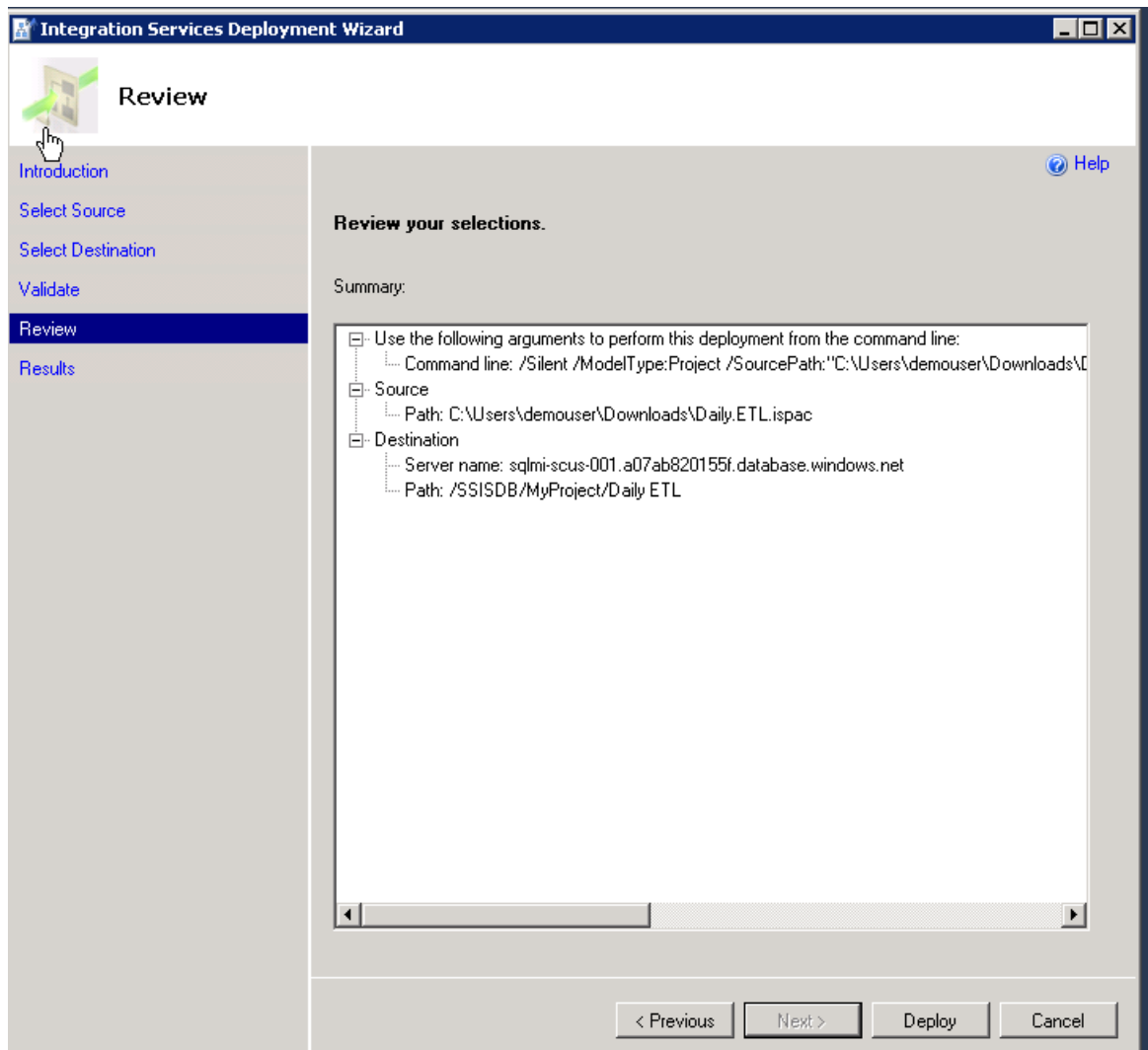


NOTE: To deploy a project that is already deployed to an SSIS catalog database, select **Integration Services** catalog, and then enter the server name and the path to the project in the catalog.

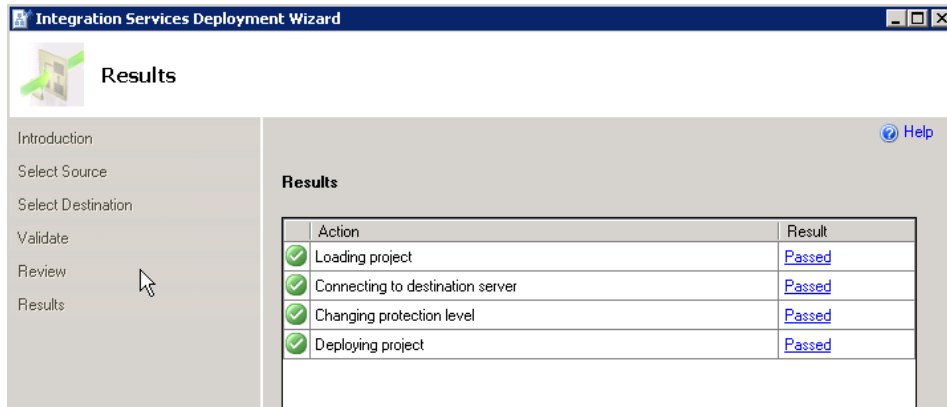
21. On the **Select Destination** page, select
22. Server Name – **Keep Default (SQL MI Hostname)**
23. Authentication: **SQL**
24. **User name:** Enter **contosoadmin**
25. **Password:** Enter **IAE5fAijit0w^rDM**
26. Click **Connect**
27. Click **Next** after you **Connect**



28. On **Validate** page, click Next
29. On the **Review** page, review the settings you selected
30. Click **Deploy** to start the deployment process

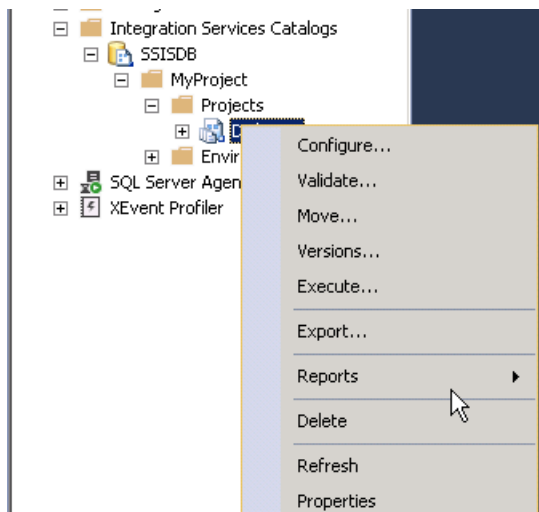


31. Once complete, the **Results** page will display successes and/or failures of any actions. Once complete, click **Close** to exit the wizard

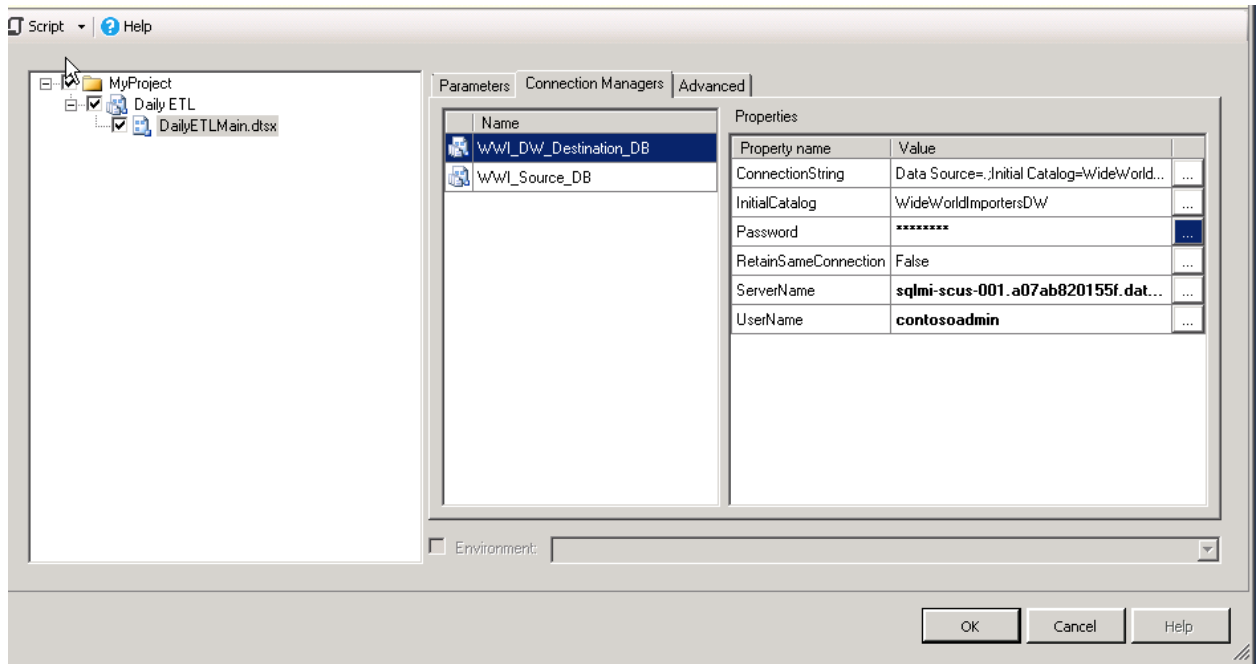


Running a Package

32. Refresh the **Projects** folder in SSMS
33. Select **Daily ETL**
34. Right-click and select **Execute**



35. After the **Execute Package** dialog box opens, click the **Connection Manager** tab
36. Edit the values for **Password**, **ServerName**, and **Username** on the Destination and Source Databases
37. Click on the Destination DB name **WWI_DW_Destination_DB** to change the settings
38. Change the Password to by clicking the ... on the **Password** field
39. Change the ServerName to by clicking the ... on the **ServerName** field
40. Change the UserName to **Labuser** by clicking the ... on the **UserName** field



41. Click on the source DB name **WWI_Source_DB** to change the settings
42. Change the Password to by clicking the ... on the **Password** field
43. Change the ServerName to **database.windows.net** by clicking the ... on the **ServerName** field
44. Change the UserName to **LabUser** clicking the ... on the **UserName** field
45. Click **OK** to run the package
46. Click **yes** to open **Execution Report** to review

Stop the Azure-SSIS Integration Runtime

1. Login to Azure Portal with your Lab Credentials.
2. Navigate to your Azure Data Factory: **DataFactory**
3. Click the **Author & Monitor** tile to open the Data Factory user interface (UI) on a separate tab
4. On the left hand side navigation bar, click the pen icon (Author)
5. On the Factory Resources page, near the bottom, click the **Connections** button
6. When the Connections tab is displayed, click the **Integration Runtimes** tab
7. Click the Pause\Stop button in the Actions section of the **MyFirstIntegrationRuntime** to stop the service
8. When asked "Are you sure you want to Stop integration runtime", click **Stop**

Conclusion

In this lab you've learned how to create and configure Integration Runtimes in Azure Data Factory to facilitate cloud-based execution, modification, and monitoring of natively hosted SSIS packages. Then, you've learned how to create a simple yet robust data pipeline to create a reliable data copying strategy. Finally, you learned how the entire process comes together for the end-user by connecting the output data to Power BI Desktop, where you can create and visualize various reports and dashboards to gain insight into your data.