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Microsoft Azure Virtual Training Day: Deliver Integrated Analytics with Azure Synapse



Realize Integrated Analytics with Azure Synapse Analytics

Agenda

- Describe Azure Synapse Analytics
- Surveying the components of Azure Synapse Analytics
- Explore Azure Synapse Studio
- Designing a Modern Data Warehouse with Azure Synapse Analytics

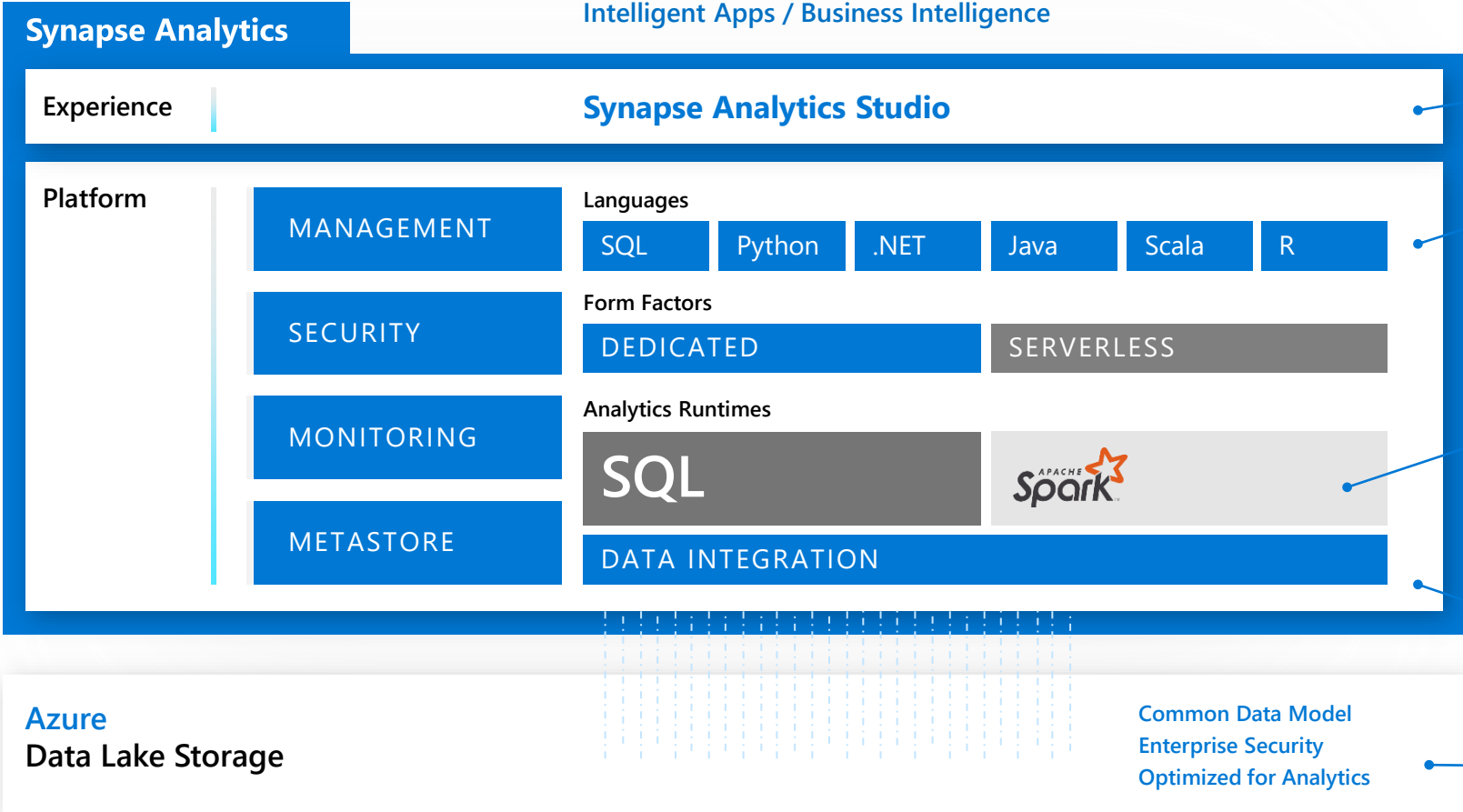


Describe Azure Synapse Analytics

Azure Synapse Analytics

Limitless analytics service with unmatched time to insight

Artificial Intelligence / Machine Learning / Internet of Things
Intelligent Apps / Business Intelligence



Designed for analytics **workloads at any scale**

SaaS **developer experiences** for code free and code first

Multiple **languages** suited to different analytics workloads

Integrated analytics runtimes available as a dedicated and serverless offering

SQL pools offering T-SQL for batch, streaming and interactive processing

Spark pools for big data processing with Python, Scala, R and .NET

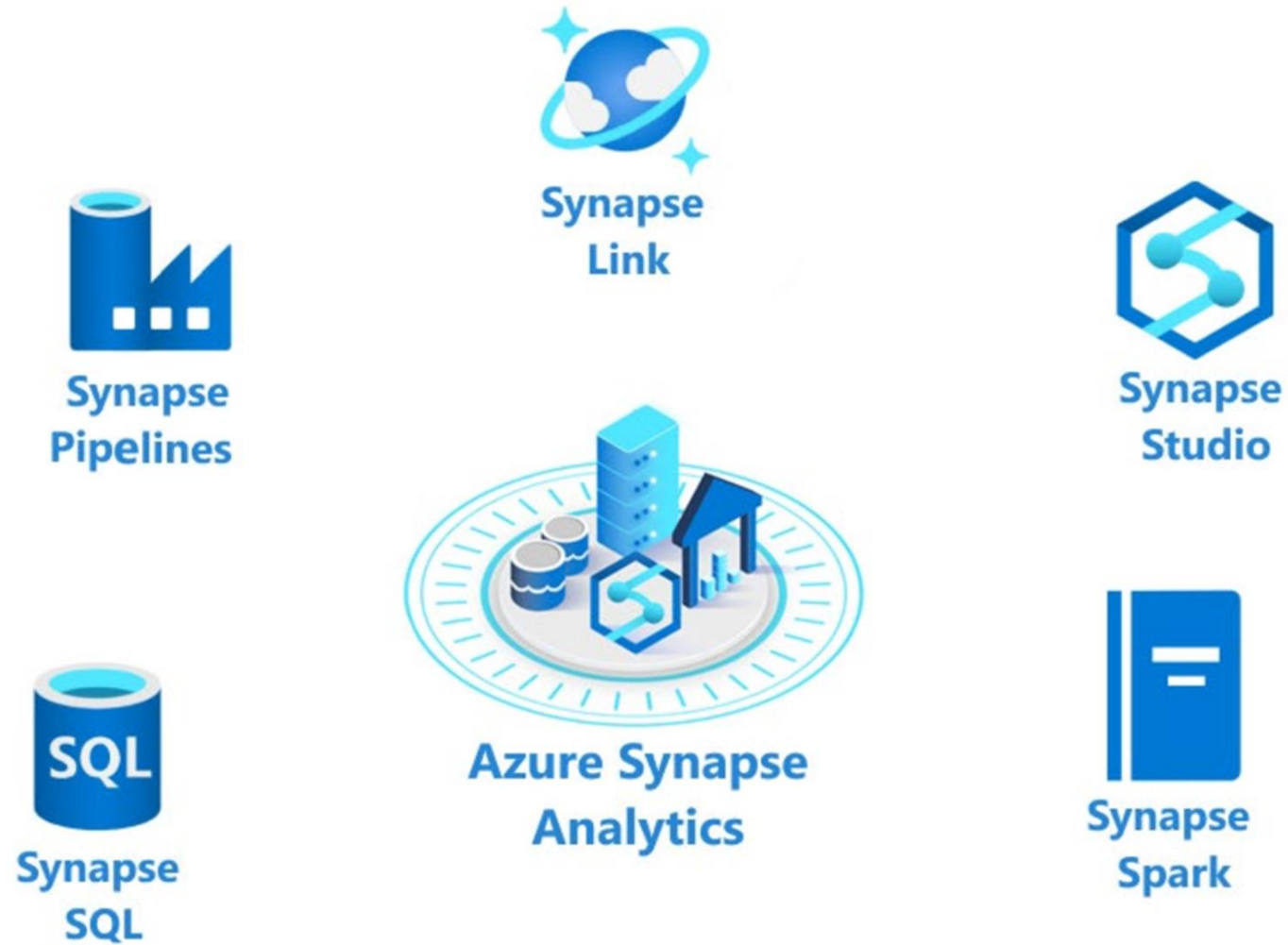
Integrated **platform services** for, management, security, monitoring, and metastore

Data **lake integrated** and Common Data Model aware



Surveying the components of Azure Synapse Analytics

Synapse Analytics Components



DEMO

Surveying the components of Azure Synapse Analytics

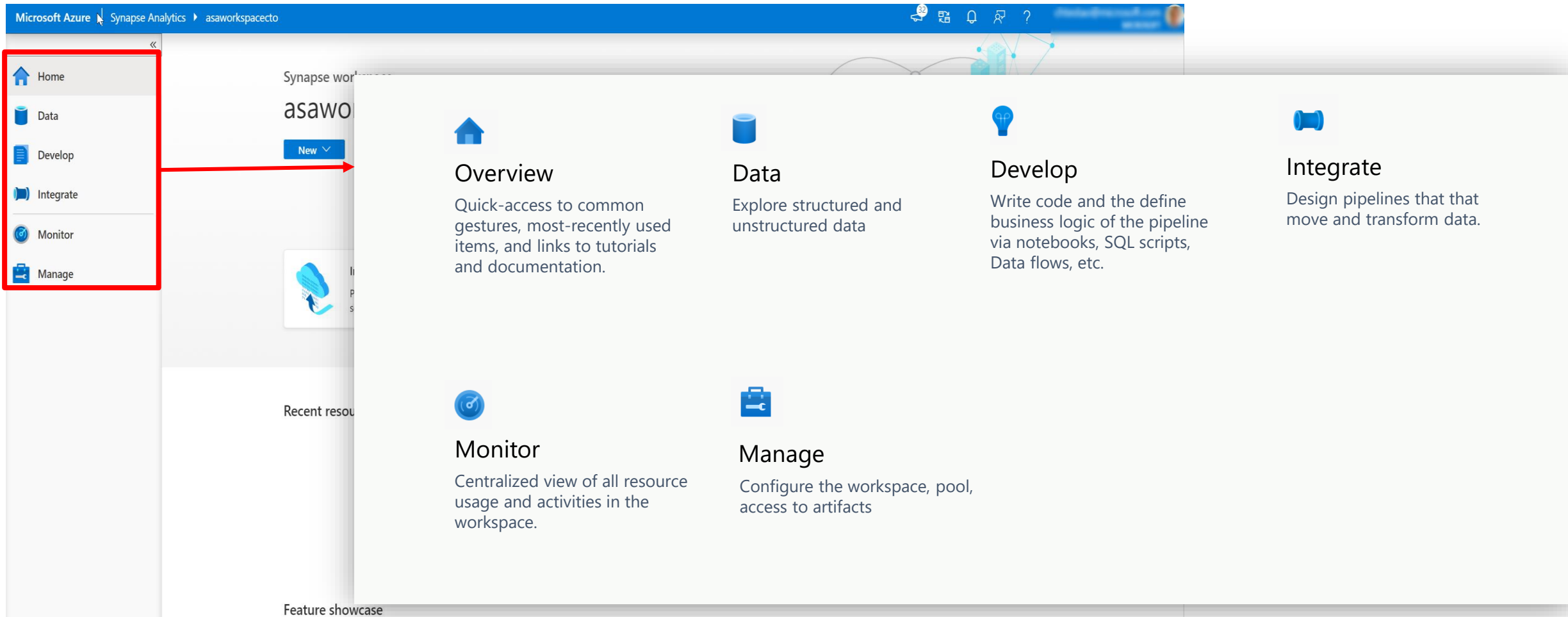


Exploring Azure Synapse Studio

Synapse Studio

Synapse Studio divided into **Activity hubs**.

These organize the tasks needed for building analytics solution.

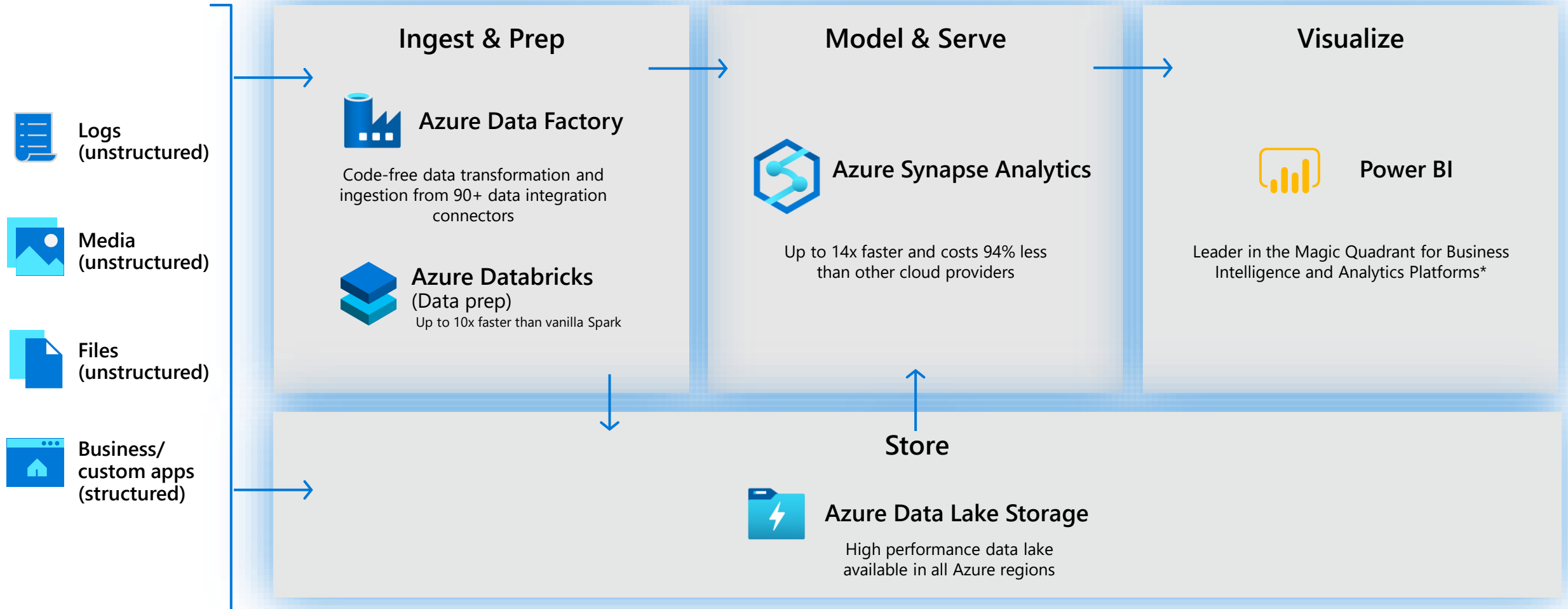


Demo: Exploring Synapse Studio

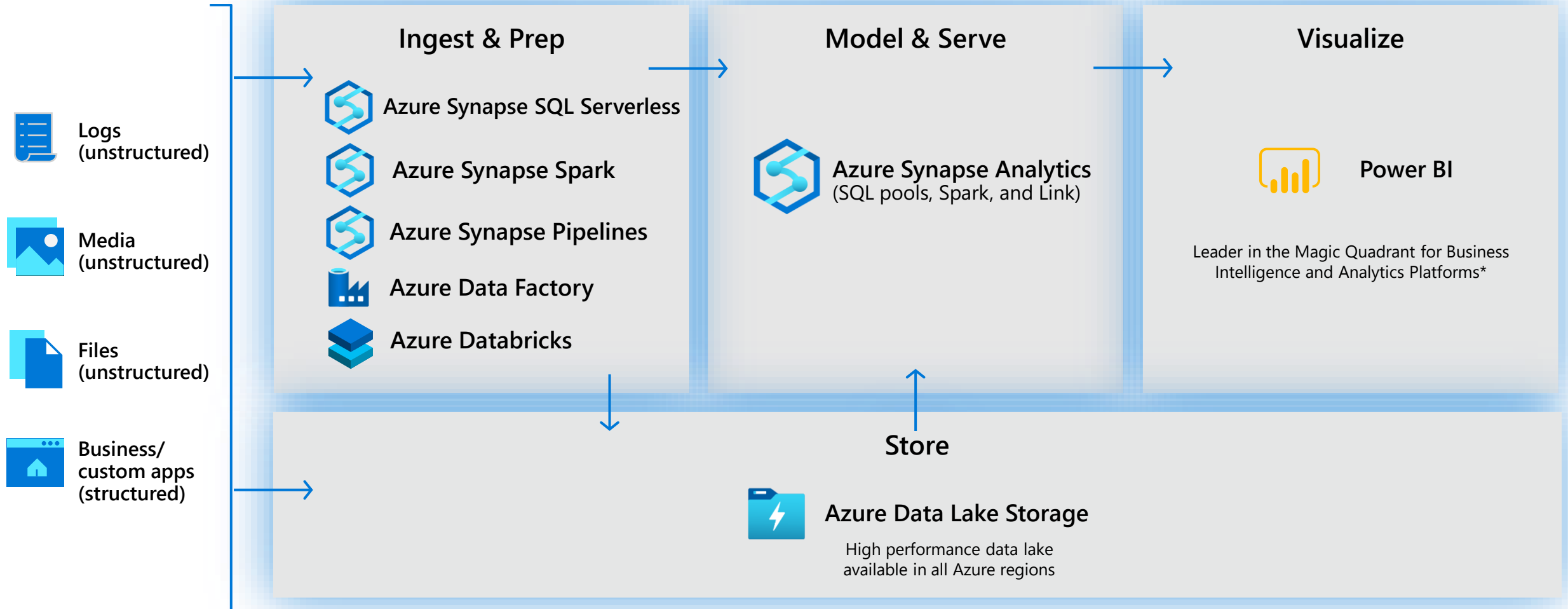


Designing a modern data warehouse with Azure Synapse Analytics

Modern data warehousing patterns



Modern data warehousing pattern with Azure Synapse Analytics



DEMO

Designing a modern data warehouse with Azure Synapse Analytics

/learn alert

Complete interactive learning exercises, watch videos, and practice and apply your new skills.

aka.ms/mslearnasalp1

The screenshot shows the Microsoft Learn interface. At the top, there's a navigation bar with the Microsoft logo, links to Docs, Documentation, Learn (active), Q&A, and Code Samples. A search bar and a user profile icon are on the right. Below this, a secondary navigation bar shows 'Learn' as the active section, with links to Products, Roles, Learn TV, Certifications, and FAQ & Help. A progress indicator shows 'LEVEL 7' with a green bar and '11375/16199 XP'. The main content area displays the title 'Realize Integrated Analytical Solutions with Azure Synapse Analytics' with a 4200 XP badge. It includes a description, prerequisites (completion of Azure Data Fundamentals learning path), and buttons for 'Continue', 'Bookmark', and 'Add to collection'. Below this, a section titled 'Modules in this learning path' features a card for 'Introduction to Azure Synapse Analytics' with a 700 XP badge, a 4.9 star rating, and a description.

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LEVEL 7 11375/16199 XP

Docs / Learn / Browse / Realize Integrated Analytical Solutions with Azure Synapse Analytics

Realize Integrated Analytical Solutions with Azure Synapse Analytics 4200 XP

1 hr 2 min remaining • Learning Path • 1 of 4 modules completed

Beginner Data Engineer Synapse Analytics

Learn how Azure Synapse Analytics enables you to perform different types of analytics through its' components that can be used to build Modern Data Warehouses through to Advanced Analytical solutions.

Prerequisites
Completion of Azure Data Fundamentals learning path.

[Continue >](#) [Bookmark](#) [Add to collection](#)

Modules in this learning path

Introduction to Azure Synapse Analytics 700 XP

26 min • Module • 6 Units

★★★★★ 4.9 (9)

Learn the features and components that Azure Synapse Analytics provides to provide a one stop shop for all your analytical needs.

[Overview](#) ▾



Optimizing a Data Warehouse with Azure Synapse dedicated SQL Pools

Agenda

- Describe Azure Synapse dedicated SQL Pools
- Understand developer features of Azure Synapse dedicated SQL Pools
- Use data loading best practices in Azure Synapse dedicated SQL Pools
- Optimize data warehouse query performance in Azure Synapse dedicated SQL Pools



Describe Azure Synapse dedicated SQL Pools

Azure Synapse dedicated SQL Pools

Dedicated SQL Pools refers to the enterprise data warehousing feature available in Azure Synapse Analytics. Dedicated SQL Pools represent the dedicated compute resources required to process data loads and queries for relational big data workloads. The size of SQL pool is determined by Data Warehousing Units (DWU).

Comparing dedicated SQL Pools with serverless SQL pools in Azure Synapse Analytics

Dedicated SQL pools

- Used for Data Warehouse operations
- Provides predictable performance and costs
- Reserves processing power for data stored in SQL tables

Serverless SQL pools

- Used for data preparation or ad-hoc queries against unstructured data.
- Provides an always available SQL endpoint for unplanned workloads
- Enables interactive querying



Understand developer features of Azure Synapse dedicated SQL Pools

Customer Problem

"You need to make it easier for us to specify a set of rows within a query result set and compute a value for each row."

- Many industries

Windowing function

```
SELECT  
    ROW_NUMBER() OVER(PARTITION BY PostalCode ORDER BY  
SalesYTD DESC) AS "Row Number",  
    LastName,  
    SalesYTD,  
    PostalCode  
FROM Sales  
WHERE SalesYTD > 0  
ORDER BY PostalCode;
```


Customer Problem

"It takes too long to get basic information about the data in a large data set as we are exploring data of a big data set" – Data Engineers

APPROX_COUNT_DISTINCT

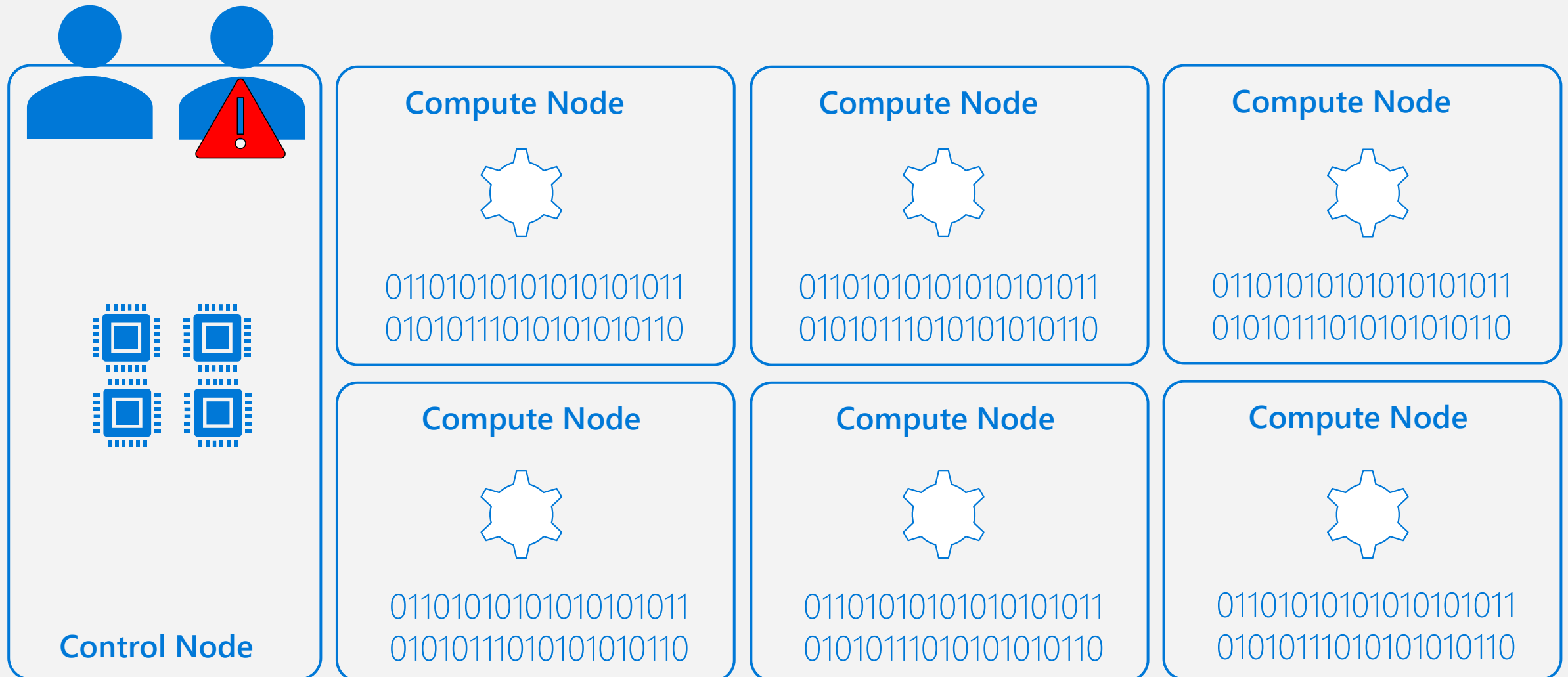
```
SELECT O_OrderStatus, APPROX_COUNT_DISTINCT(O_OrderKey) AS  
Approx_Distinct_OrderKey  
FROM dbo.Orders  
GROUP BY O_OrderStatus  
ORDER BY O_OrderStatus;
```

DEMO

**Understand developer
features of Azure
Synapse dedicated SQL
Pools**

Using data loading best practices in Azure Synapse dedicated SQL Pools

Use workload management to prioritize workloads



DEMO

Using data loading best practices in Azure Synapse dedicated SQL Pools

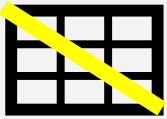


Optimize data warehouse query performance in Azure Synapse dedicated SQL Pools

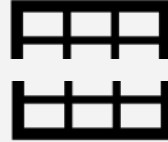
Maximize query performance

Table distribution

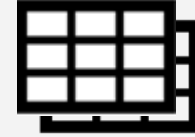
Round Robin
Tables



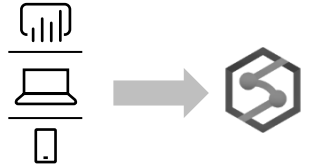
Hash Distributed
Tables



Replicated
Tables



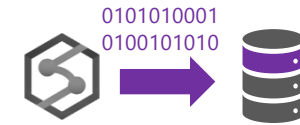
Result-set caching flow



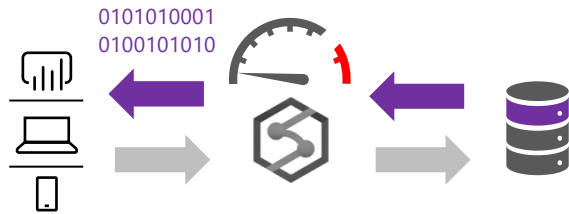
- 1 Client sends query to SQL pool



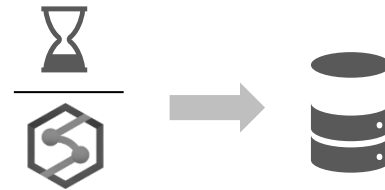
- 2 Query is processed using compute nodes which pull data from remote storage, process query and output back to client app



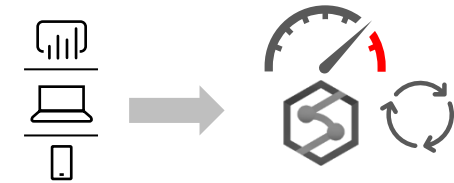
- Query results are cached in remote storage so subsequent requests can be served immediately



- 3 Subsequent executions for the same query bypass compute nodes and can be fetched instantly from persistent cache in remote storage



- 4 Remote storage cache is evicted regularly based on time, cache usage, and any modifications to underlying table data.



- 5 Cache will need to be regenerated if query results have been evicted from cache

DEMO

Optimize data warehouse query performance in Azure Synapse dedicated SQL Pools

/learn alert

Complete interactive learning exercises, watch videos, and practice and apply your new skills.

aka.ms/mslearnasadedicated

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LEVEL 7 11375/16199 XP

Docs / Learn / Browse / Work with Data Warehouses using Azure Synapse Analytics

 **Work with Data Warehouses using Azure Synapse Analytics** 8200 XP

1 hr 33 min remaining • Learning Path • 0 of 7 modules completed

Intermediate Data Engineer Synapse Analytics


Explore the tools and techniques that can be used to work with Modern Data Warehouses productively and securely within Azure Synapse Analytics.

Prerequisites

- It is recommended that students have completed Data Fundamentals before starting this learning path.

Continue > Bookmark Add to collection

Modules in this learning path

 **Design a Modern Data Warehouse using Azure Synapse Analytics** 1100 XP

6 min remaining • Module • 8 of 10 units completed

★★★★☆ 4.6 (7)

Learn how Azure Synapse Analytics enables you to build Data Warehouses using modern architecture patterns.

Continue >

Overview ^



Perform Data Engineering with Azure Synapse Spark pools

Agenda

- Understanding big data engineering with Apache Spark in Azure Synapse Analytics
- Ingesting data with Apache Spark notebooks in Azure Synapse Analytics
- Transforming data with DataFrames in Spark pools in Azure Synapse Analytics
- Integrating SQL and Spark pools in Azure Synapse Analytics

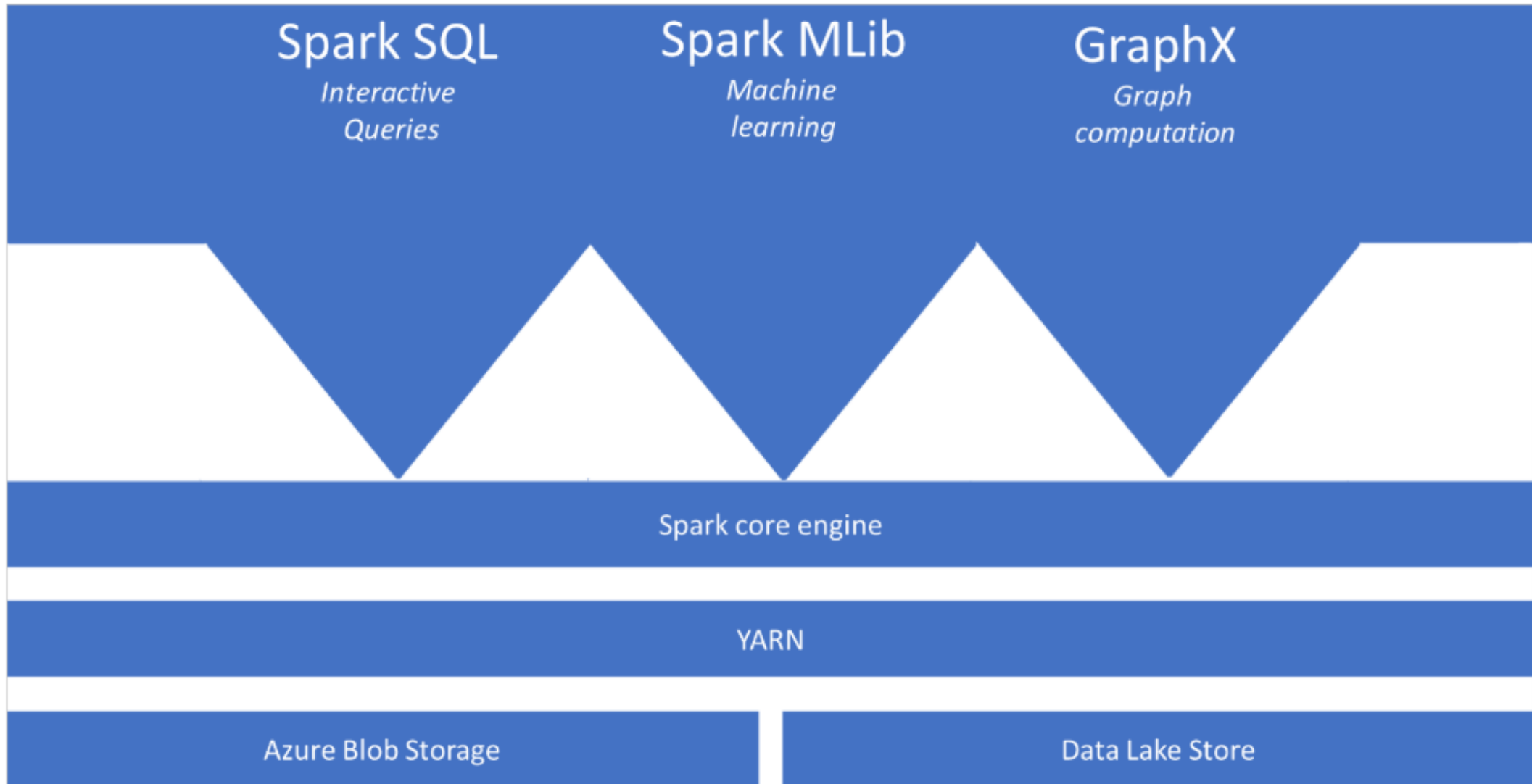


Understanding big data engineering with Apache Spark in Azure Synapse Analytics

What to use when and where

	Apache Spark	HDInsight	Azure Databricks	Synapse Spark
WHAT	Is an Open Source memory optimized system for managing big data workloads	Microsoft implementation of Open Source Spark managed within the realms of Azure	A managed Spark as a Service solution	Embedded Spark capability within Azure Synapse Analytics
WHEN	When you want to benefits of spark for big data processing and/or data science work without the Service Level Agreements of a provider	When you want to benefits of OSS spark with the Service Level Agreement of a provider	Provides end to end data engineering and data science solution and management platform	Enables organizations without existing Spark implementations to fire up a Spark cluster to meet data engineering needs without the overheads of the other Spark platforms listed
WHO	Open Source Professionals	Open Source Professionals wanting SLA's and Microsoft Data Platform experts	Data Engineers and Data Scientists working on big data projects every day	Data Engineers, Data Scientists, Data Platform experts and Data Analysts
WHY	To overcome the limitations of SMP systems imposed on big data workloads	To take advantage of the OSS Big Data Analytics platform with SLA's in place to ensure business continuity	It provides the ability to create and manage an end-to-end big data/data science project using one platform	It provides the ability to scale efficiently with spark clusters within a one stop shop Data Warehousing platform of Synapse.

Apache Spark



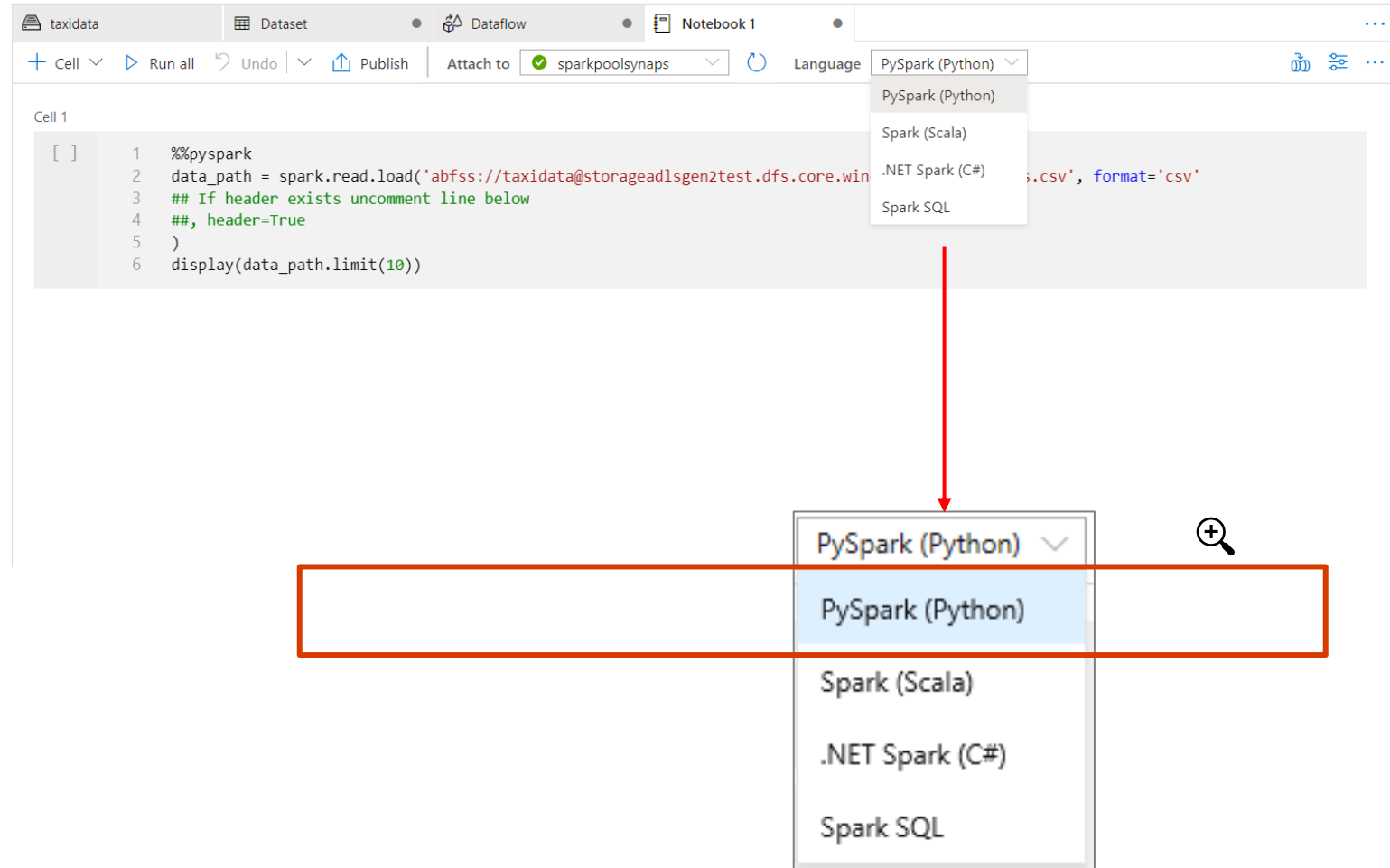


Ingesting data with Apache Spark notebooks in Azure Synapse Analytics

Develop Hub - Notebooks

Notebooks

- Access through workspace URL: <https://web.azuresynapse.net/>
- Examples Available through Knowledge Center
- Allows to write multiple languages in one notebook by using %%<Name of language>
- Support for Language Syntax highlight, syntax error, syntax code completion
- Offers temporary tables across languages
- Export results

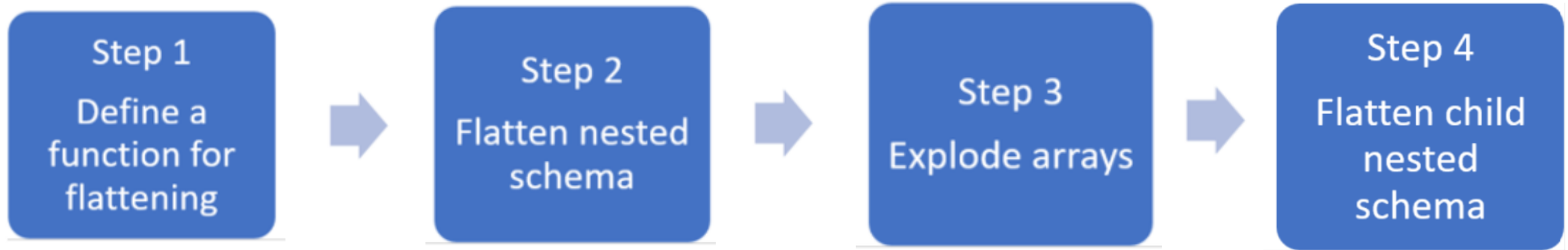


Demo: Ingesting data with Apache Spark notebooks in Azure Synapse Analytics



Transforming data with DataFrames in Spark pools in Azure Synapse Analytics

Analyze Complex Data types with Spark pools in Azure Synapse



Demo: Transforming data with Data Frames in Spark pools in Azure Synapse Analytics



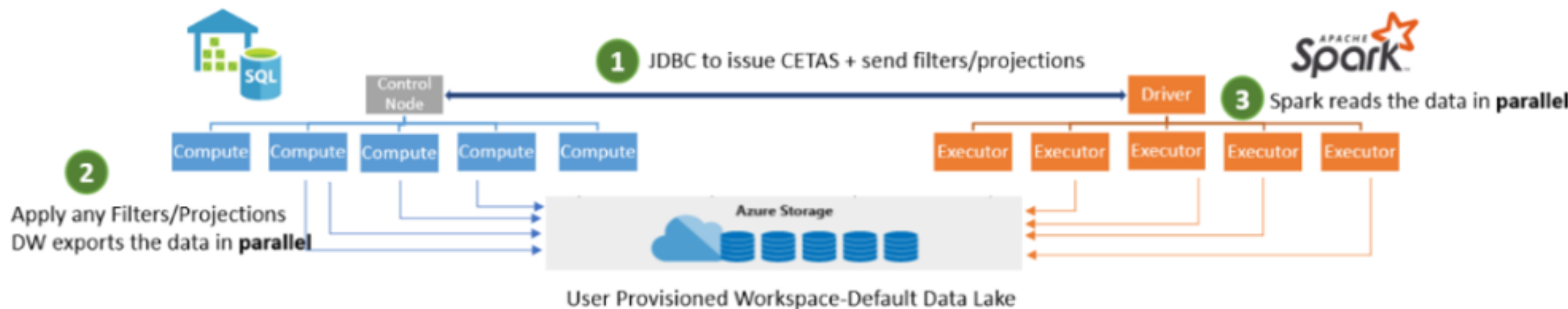
Integrating SQL and Spark pools in Azure Synapse Analytics

Design integrating Data Transfer between Spark and SQL pools

Existing Approach: JDBC



New Approach: JDBC and Polybase



Demo: Integrating SQL and Spark pools in Azure Synapse Analytics

/learn alert

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aka.ms/mslearnasaspark

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LEVEL 7 11375/16199 XP

Docs / Learn / Browse / Perform data engineering with Azure Synapse Apache Spark Pools

Perform data engineering with Azure Synapse Apache Spark Pools 5300 XP

2 hr 23 min remaining • Learning Path • 0 of 5 modules completed

Intermediate | Data Engineer | Synapse Analytics

Learn how to perform data engineering with Azure Synapse Apache Spark Pools, which enable you to boost the performance of big-data analytic applications by in-memory cluster computing.

Prerequisites

- It is recommended that students have completed Data Fundamentals before starting this learning path.

[Continue >](#) [Bookmark](#) [Add to collection](#)

Modules in this learning path

Understand big data engineering with Apache Spark in Azure Synapse Analytics 700 XP

15 min remaining • Module • 1 of 6 units completed

Learn how to differentiate between Apache Spark, Azure Databricks, HDInsight, and SQL Pools, as well as understanding the use-cases of data-engineering with Apache Spark in Azure Synapse Analytics.

[Continue >](#)

Overview ^



Building automated data integration pipelines with Azure Synapse Pipelines

Agenda

- Describe Azure Synapse Pipelines
- Perform petabyte-scale ingestion with Azure Synapse Pipelines
- Perform code-free transformation at scale with Azure Synapse Pipelines
- Orchestrate data movement and transformation in Azure Synapse Pipelines

Describe Azure Synapse Pipelines

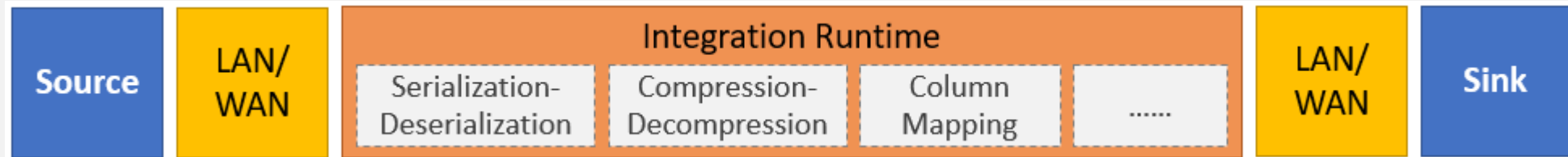
Azure Synapse Pipelines

Embeds the capabilities of Azure Data Factory within Azure Synapse Analytics for a cloud-based data integration service that allows you to orchestrate and automate data movement and data transformation.



Perform petabyte-scale ingestion with Azure Synapse Pipelines

Copy files with the Copy Activity



Supported file formats:

Text
JSON
Avro
ORC
Parquet

Copy activity can compress and decompress files with
The following codecs:

Gzip
Deflate
Bzip2
ZipDeflate

DEMO

Ingesting data with Azure Synapse Pipelines



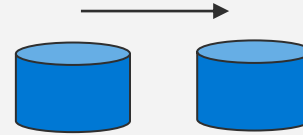
Perform code-free transformation at scale with Azure Synapse Pipelines

Methods for transforming in Azure Synapse Pipelines

Compute resources



Mapping Data Flow



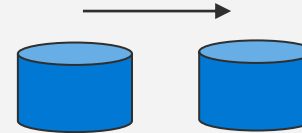
Methods for transforming in Azure Synapse Pipelines

Code free data transformation at scale

Compute resources



Mapping Data Flow



SPEAKER NAME

Demo: Transforming your data with Azure Synapse Pipelines



Orchestrate data movement and transformations with Azure Synapse Pipelines

Orchestrating Azure Synapse Analytic Spark Notebooks

1.
Use Storage
Account

2.
Use Azure
Synapse Pipeline

3.
Create data
workflow
pipeline

4.
Add Azure Synapse
Analytics Spark
Notebook to
pipeline

5.
Perform analysis
on the data

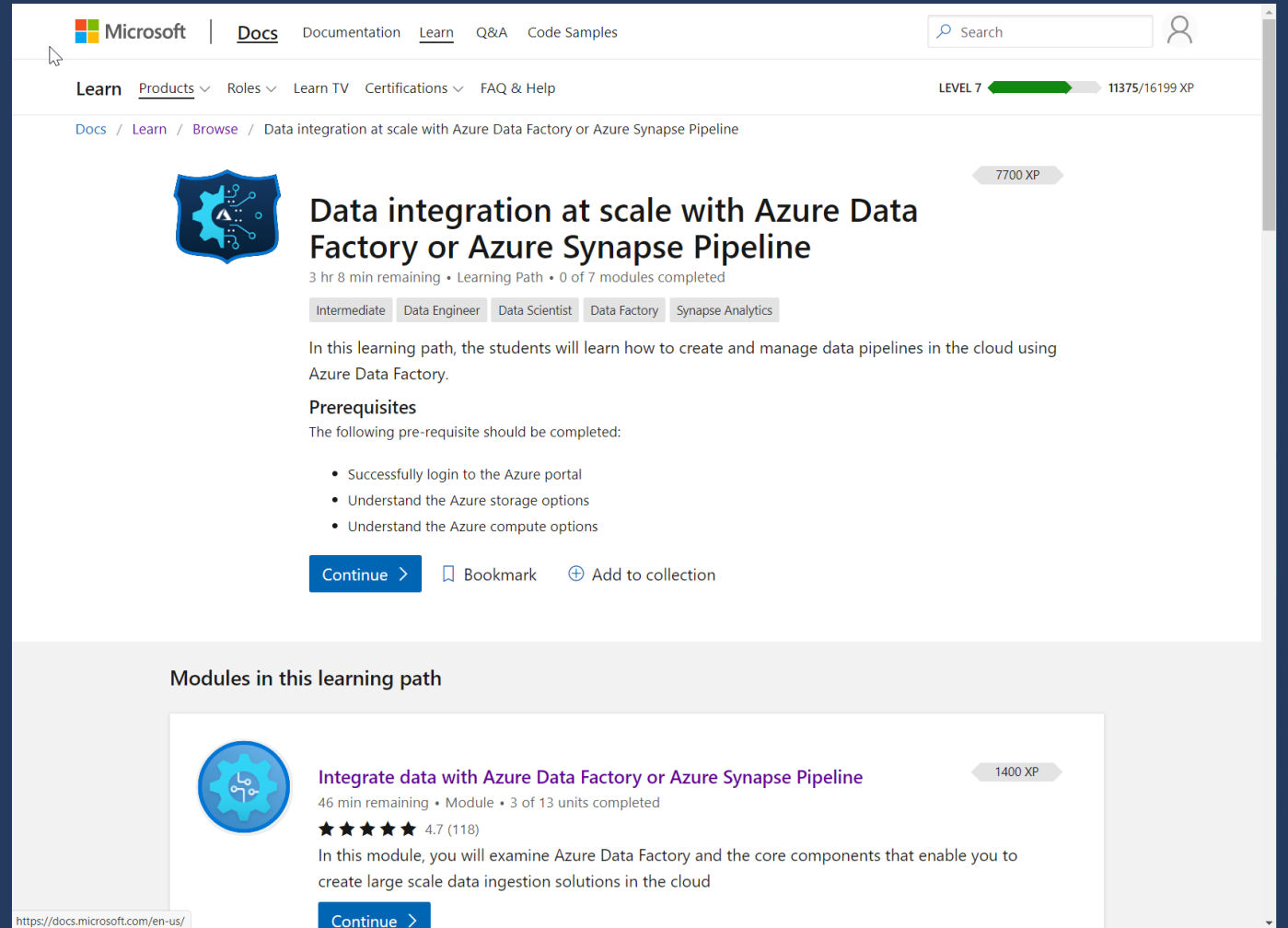
DEMO

Orchestrate data movement and transformations with Azure Synapse Pipelines

/learn alert

Complete interactive learning exercises, watch videos, and practice and apply your new skills.

aka.ms/mslearnasapipelines



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LEVEL 7 11375/16199 XP

Docs / Learn / Browse / Data integration at scale with Azure Data Factory or Azure Synapse Pipeline

 **Data integration at scale with Azure Data Factory or Azure Synapse Pipeline** 7700 XP

3 hr 8 min remaining • Learning Path • 0 of 7 modules completed

Intermediate Data Engineer Data Scientist Data Factory Synapse Analytics

In this learning path, the students will learn how to create and manage data pipelines in the cloud using Azure Data Factory.


Prerequisites

The following pre-requisite should be completed:

- Successfully login to the Azure portal
- Understand the Azure storage options
- Understand the Azure compute options

Continue > Bookmark Add to collection

Modules in this learning path

 **Integrate data with Azure Data Factory or Azure Synapse Pipeline** 1400 XP

46 min remaining • Module • 3 of 13 units completed

★★★★★ 4.7 (118)

In this module, you will examine Azure Data Factory and the core components that enable you to create large scale data ingestion solutions in the cloud

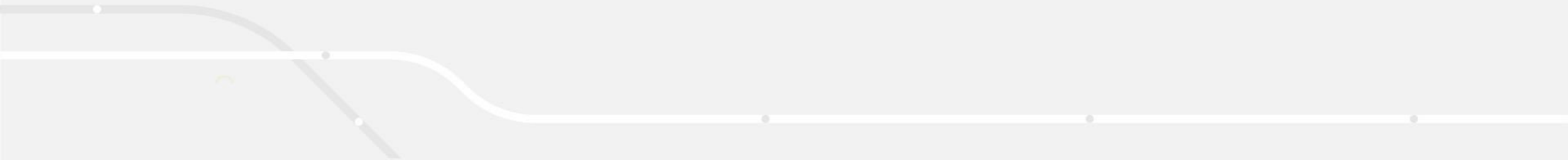
Continue >

<https://docs.microsoft.com/en-us/>



Run interactive queries using Azure Synapse serverless SQL pools

Agenda

- Describe Azure Synapse serverless SQL pools
 - Querying a data lake store using serverless SQL pools in Azure Synapse Analytics
 - Securing access to data through using serverless SQL pools in Azure Synapse Analytics
- 



Describe Azure Synapse serverless SQL pools

Azure Synapse serverless SQL Pools

Every Azure Synapse Analytics workspace comes with serverless SQL pool endpoints so you can start querying data in seconds to minutes in a data lake as soon as the workspace is created. There's no infrastructure to setup or clusters to maintain.

Comparing dedicated SQL Pools with serverless SQL pools in Azure Synapse Analytics

Dedicated SQL pools

- Used for Data Warehouse operations
- Provides predictable performance and costs
- Reserves processing power for data stored in SQL tables

Serverless SQL pools

- Used for data preparation or ad-hoc queries against unstructured data.
- Provides an always available SQL endpoint for unplanned workloads
- Enables interactive querying



Querying a data lake store using serverless SQL pools in Azure Synapse Analytics

Common files to query



Parquet

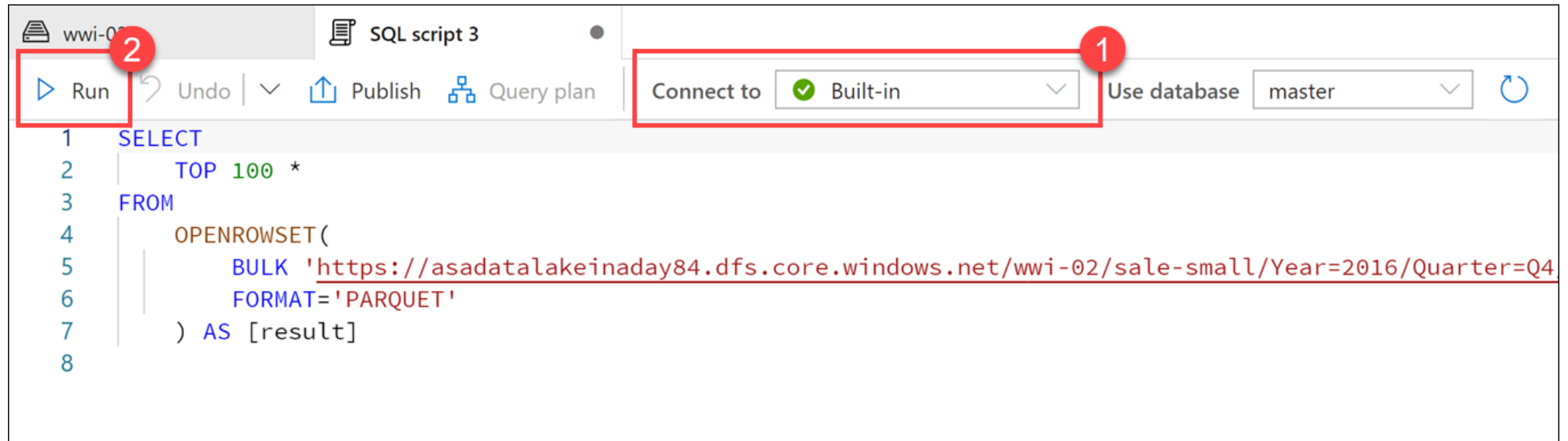


Json



DelimitedText

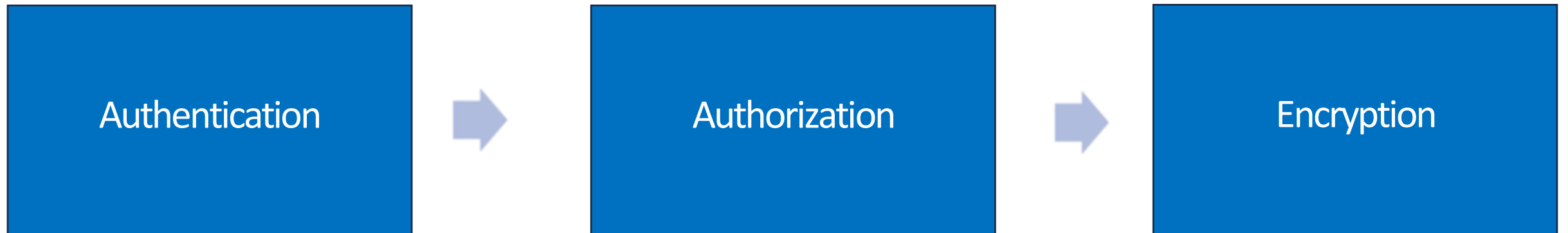
Querying parquet files in a data lake





Securing access to data through using SQL serverless in Azure Synapse Analytics

Securing access to data in a data lake when using Azure Synapse Analytics

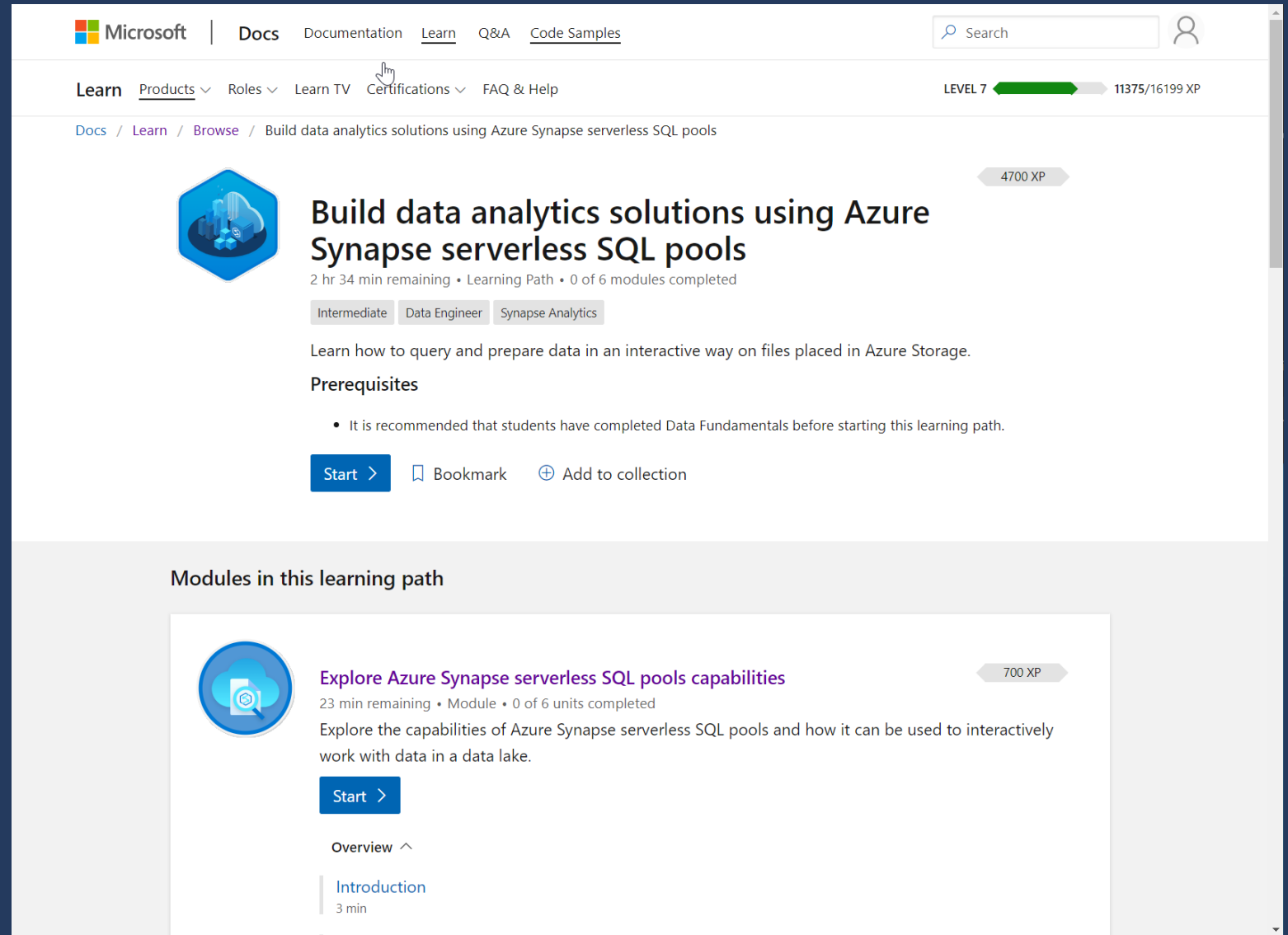


Demo: Run interactive queries using Azure Synapse serverless SQL pools

/learn alert

Complete interactive learning exercises, watch videos, and practice and apply your new skills.

aka.ms/mslearnasaserverless



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Docs / Learn / Browse / Build data analytics solutions using Azure Synapse serverless SQL pools

Build data analytics solutions using Azure Synapse serverless SQL pools 4700 XP

2 hr 34 min remaining • Learning Path • 0 of 6 modules completed

Intermediate Data Engineer Synapse Analytics

Learn how to query and prepare data in an interactive way on files placed in Azure Storage.

Prerequisites

- It is recommended that students have completed Data Fundamentals before starting this learning path.

Start > Bookmark Add to collection

Modules in this learning path

Explore Azure Synapse serverless SQL pools capabilities 700 XP

23 min remaining • Module • 0 of 6 units completed

Explore the capabilities of Azure Synapse serverless SQL pools and how it can be used to interactively work with data in a data lake.

Start >

Overview

Introduction
3 min