



# Cloud connected

Module 8

# Learning Units covered in this Module

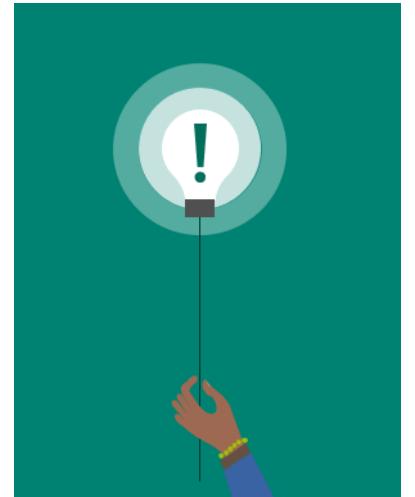
- Lesson 1: Azure Arc-Enabled SQL Server
- Lesson 2: Microsoft Azure Purview
- Lesson 3: Azure Synapse Link

# Lesson 1: Azure Arc-enabled SQL Server

# Objectives

After completing this learning, you will be able to:

- Explain Azure Arc enabled SQL Server
- Explain the benefits of Azure Arc enabled SQL Server
- Explain how to onboard SQL Server to Azure Arc





Security, operations, and governance

Azure services

Cloud infrastructure

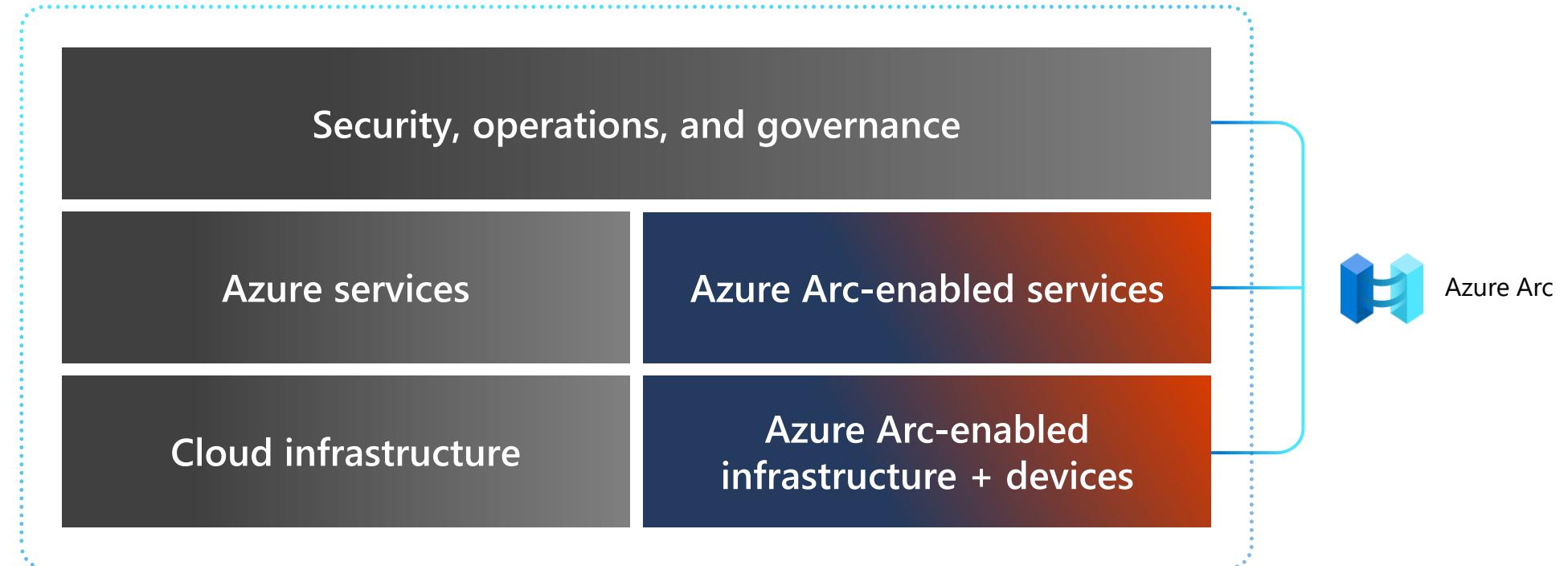
Tools and experiences



Tools and experiences

Microsoft Visual Studio

GitHub



# Azure Arc-enabled data services

## Existing apps

SQL Server enabled by Azure Arc

Organize, inventory

Enhanced security with Microsoft Defender for Cloud

Free SQL Assessment service

Migrate to Azure (Preview)



GENERALLY AVAILABLE

## App modernization

Azure Arc-enabled SQL Managed Instance

Azure SQL Managed Instance

on any infrastructure

Fully automated, evergreen SQL  
Cloud billing model for on-premises



GENERALLY AVAILABLE

Azure Arc-enabled PostgreSQL

Azure Database for PostgreSQL

on any infrastructure

Fully automated, single server  
Scale up/down/out/in



PUBLIC PREVIEW

# Bring cloud manageability to SQL Server anywhere

Manage, govern, and protect your SQL Server from Azure



## Manage all SQL estate with better observability

Single view of all SQL Servers deployed on-premises, in Azure and other clouds

Capture key performance metrics and realize faster time-to-value with monitoring

Gain proactive & actionable insights with automate best practices assessment

## Enhance business continuity

Manage Availability Groups inventory and track real-time health status

View Always-on Failover Cluster Instances and protect with Defender

Automated backups and point-in-time restore for seamless application of policy

## Govern and protect all SQL estate using Azure

Protect your on-premises & multicloud data using Microsoft Defender for Cloud

Enhance security using Extended Security Updates as a service & auto patching

Central insights and governance across a SQL Server with Microsoft Purview



Azure billing enabled by Azure Arc for SQL Server anywhere, with simplified onboarding

# Deliver critical insights across entire SQL Server environments, optimize database performance and enable faster diagnostics

## Monitoring for SQL Server enabled by Azure Arc

### Use Cases

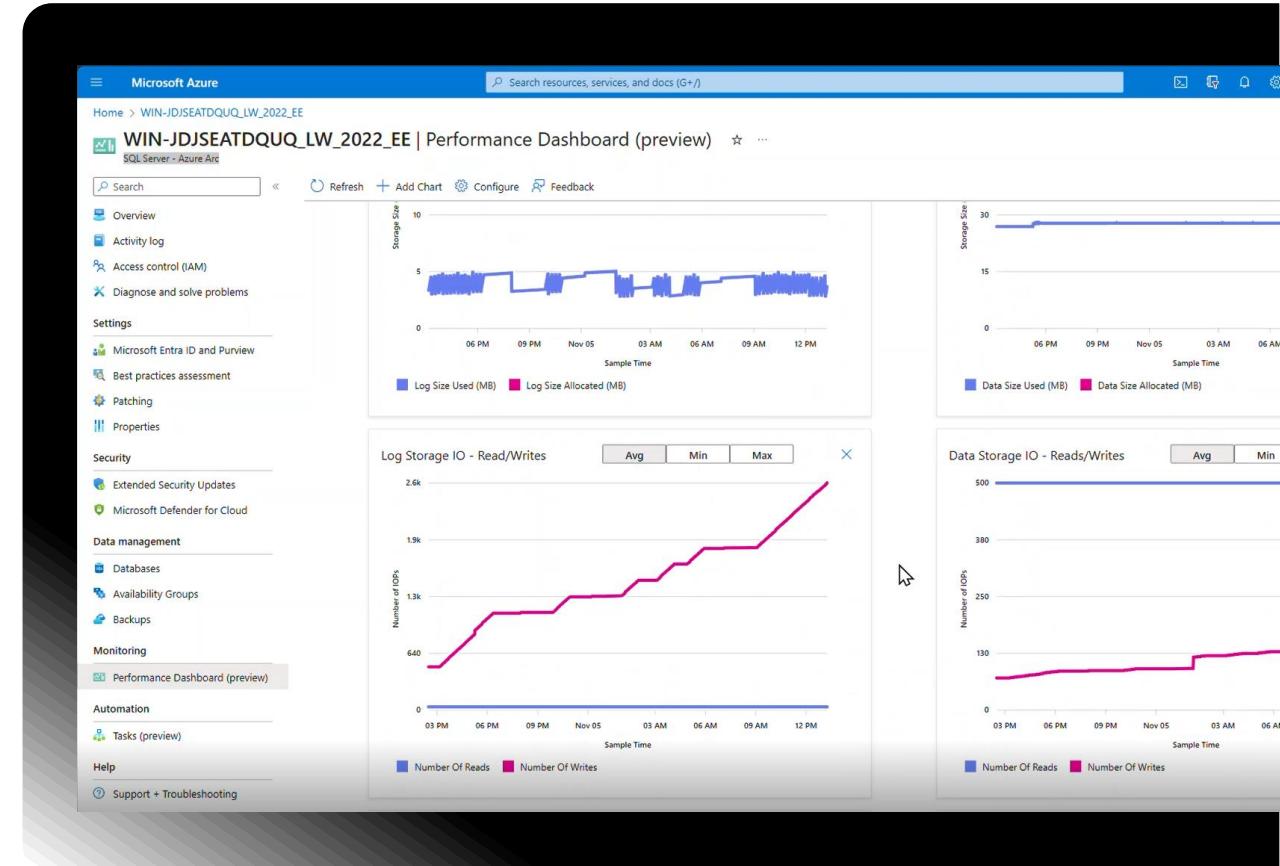
- Monitoring as the first step in optimizing performance for applications
- Perform troubleshooting when incidents happen
- Identify security gaps, remain compliant or enforce SLAs

### Key Capabilities

- View key SQL performance metrics in near real time right from the Azure Portal
- Out-of-box monitoring dashboards, with zero additional setup time
- All telemetry and logs securely stored in Azure for downstream analysis

### Benefits

- Reduce risks of incidents, unplanned downtime and security breach
- Increase the efficiency of DBA's maintenance & troubleshooting tasks
- Reduce the cost of underlying infrastructure, with better capacity planning



# Provide proactive and actionable insights at scale to optimize entire SQL Server estate across on-premises & multicloud environments

## Best Practices Assessment for SQL Server enabled by Azure Arc

### Use Cases

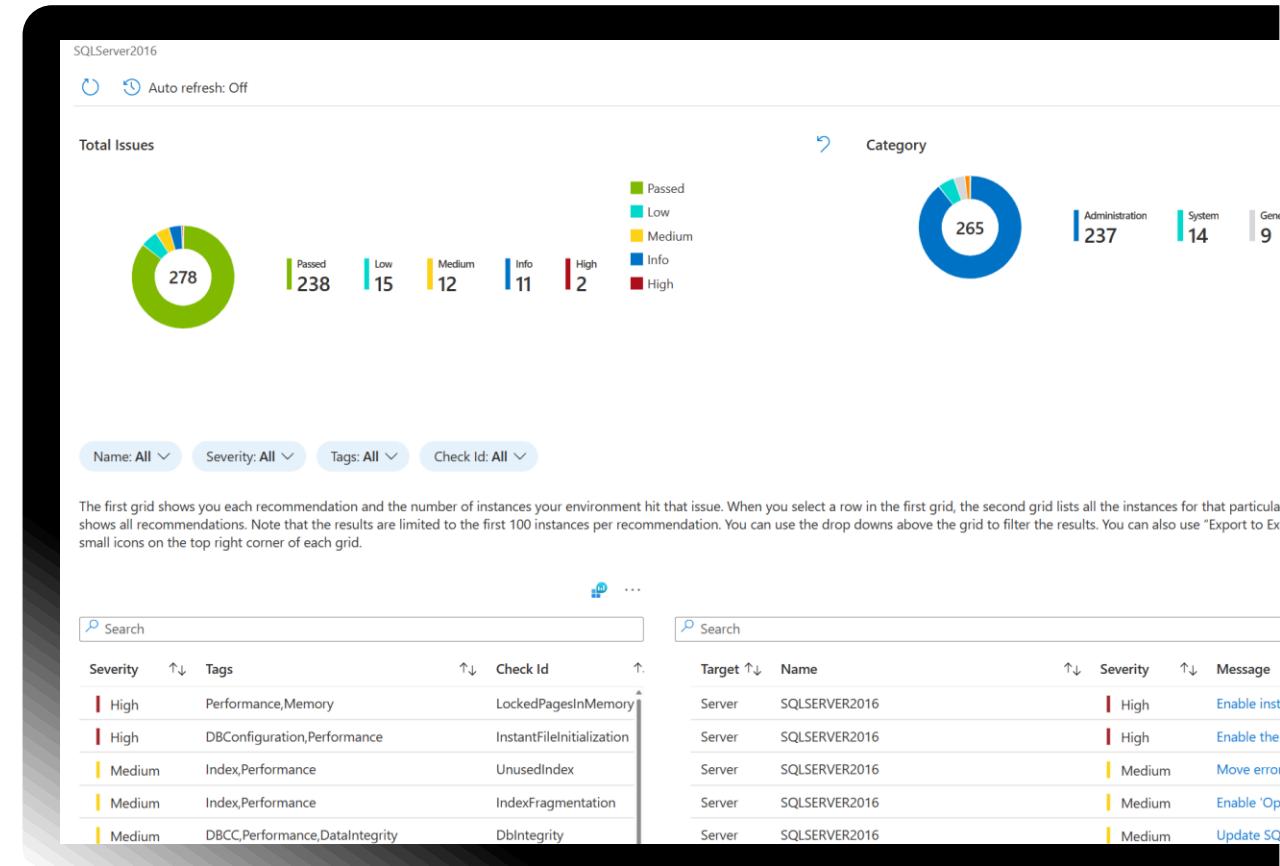
- Identify opportunities for performance optimization, improvement on security posture & compliance
- Perform proactive planning on disaster recovery and high availability
- Perform more accurate capacity planning on SQL Server resources

### Key Capabilities

- 450+ rules to evaluate the configuration of SQL Server estate at scale
- Provide a prioritized list of the risks detected & step-by-step mitigation guidance
- Scan in intervals for most up to date results

### Benefits

- Improve uptime and performance by mitigating the risks detected
- Enhance security and compliance posture
- Increase efficiency of DBA's routine operation by at-scale assessment



# Protect SQL workloads through security posture management and allow timely responses to threats

## Microsoft Defender for Cloud — Databases Protection

### Use Cases

- Mitigate risks generated from modern technology (open-source, container)
- Standardize security practice across various types of databases and across hybrid & multicloud infrastructure

### Key Capabilities

- Discover, track, and remediate SQL workloads security misconfigurations
- Detect and response unusual and harmful attempts to breach SQL workloads
- Centralize security across all SQL estate, with one-click enablement

### Benefits

- Reduce risk proactively with contextual cloud security posture management
- Drive compliance with MS cloud security benchmark for multicloud environments
- Enable protection with more workload coverage & native integrations

Severity	Alert name	Affected resource	Resource Group	Activity start time (UTC-8)
High	Potential SQL Injection	SmartHotelSQL1	SmartHotelHostRG	11/03/23, 10:00 AM
Medium	Unusual execution of custom script extension in your virtua...	SmartHotelHost	SmartHotelHostRG	10/12/23, 09:14 PM
Low	Creation of admission webhook configuration detected	octdc	dinethi-oct-bb	10/11/23, 08:24 AM
Low	Creation of admission webhook configuration detected	aksoc	dinethi-oct-bb	10/06/23, 12:03 PM
Low	Creation of admission webhook configuration detected	aksbb3	dn-bb-arcds	09/08/23, 04:41 PM
Low	Creation of admission webhook configuration detected	aksbb2	dn-bb-arcds	09/08/23, 04:26 PM
Low	Creation of admission webhook configuration detected	aksbb	dn-bb-arcds	09/08/23, 03:48 PM

# Check for migration option for your on-prem SQL Databases directly from Azure Arc enabled SQL Servers (SQL Server on Windows only)

## Migration Assessment (Preview)

### Use Cases

- Evaluate and measure the readiness of SQL Servers for migration to Azure
- SQL Assessment should be easily done directly from Arc enabled SQL Server from the Azure portal
- Provide cloud readiness

### Key Capabilities

- Discovers and assesses the SQL Server instance and databases
- Pinpoints SQL Server workloads that are ready for migration
- Identifies potential compatibility issues with the target environment

### Benefits

- Assesses migration risks
- Provides recommendations to mitigate these risks
- Provides best-fit recommendations, including the service tier and right-sizing based on performance history

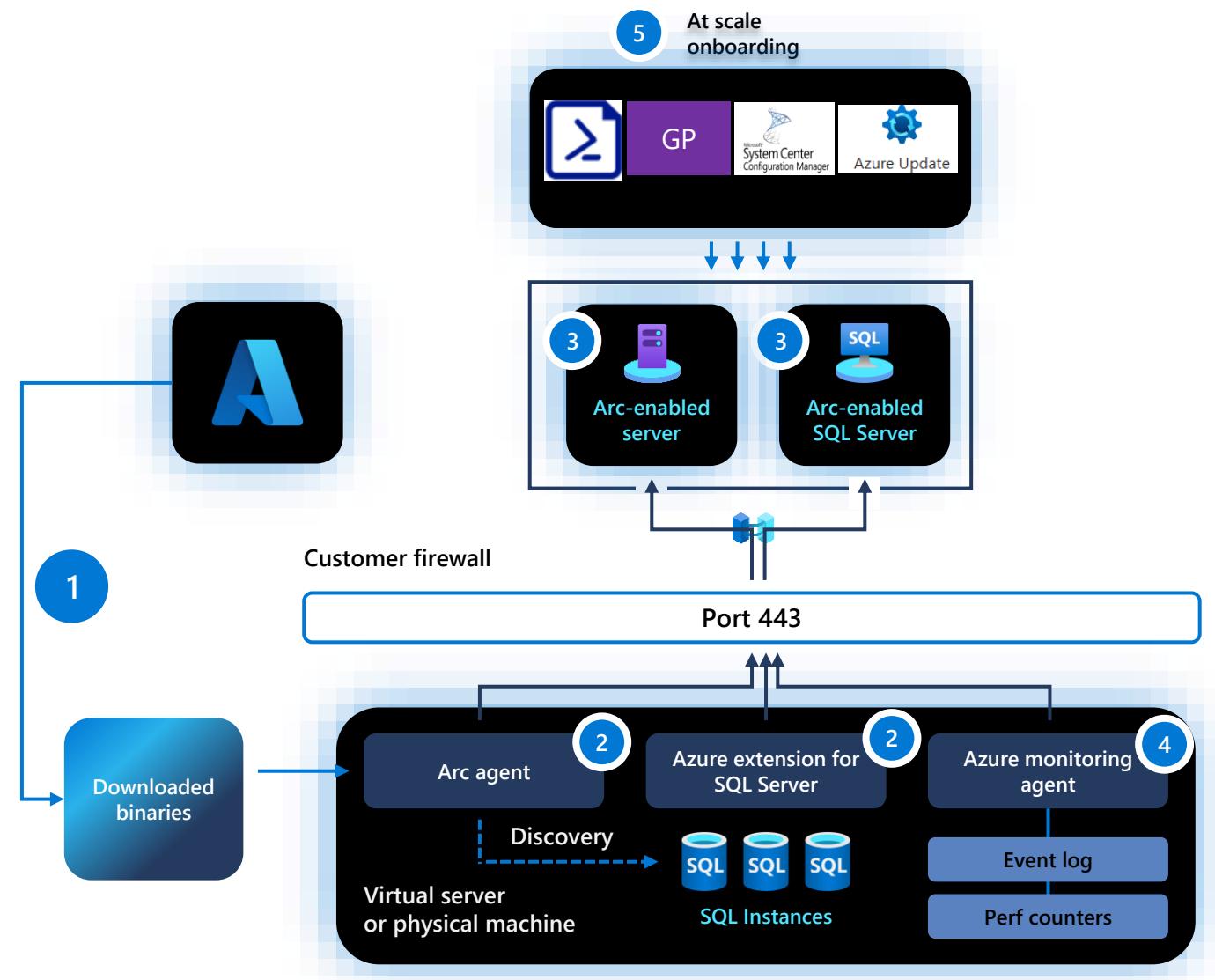
### Limitations

- SQL Server migration assessment is currently limited to SQL Server running on Windows machines, doesn't apply to SQL on Linux machines.
- SQL Server running on Windows Server 2012 and older versions aren't supported.
- SQL Server version must be 2012 or above.
- Failover cluster instances (FCI) aren't supported at this time.

Edition	Version	Support end date	Database license support status	Total DB size (MB)
Standard Edition (64-bit)	SQL Server 2017	10/10/2022 (Learn more)	Extended	352.00

# SQL Server enabled by Azure Arc architecture

- 1 Generate script and execute on Server
- 2 Local services created
- 3 Arc –enabled server & Arc-enabled SQL Server resources created
- 4 Azure monitoring agent
- 5 Onboard at scale



# How to onboard SQL Server to Azure Arc

## Range of different onboarding tools

-  **SQL Server 2022 setup**

Integrated UI to connect to Azure Arc during installation

-  **Automatic registration via Azure policy**

One-click action applies to all servers already connected to Azure Arc

-  **Onboarding individual SQL Servers from Azure portal**

Run auto-generated script from the target machine

-  **Tenant scope auto-registration**

Work with your account team on a consent email to allow Microsoft devops do it for you

-  ***Future - Auto-registration during the hosting server onboarding***

SQL Server configuration included into the default auto-manage profile

# How to select license type for SQL Server

## Customer control over cost optimization



### Pay-As-You-Go

- Triggers Pay-As-You-Go hourly billing after SQL Server is connected
- Enables core Arc features



### Software assurance or SQL Subscription

- Provides license usage visibility in Cost management + Billing via distinct \$0 meters
- Enabled core features



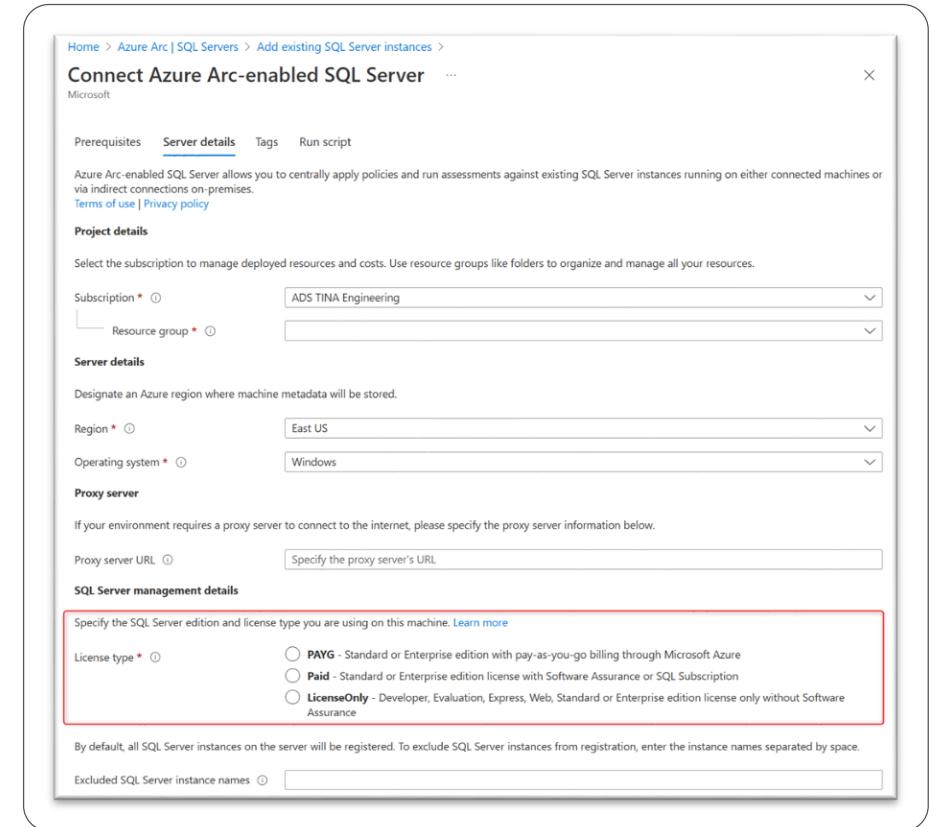
### License only

- Provide license usage visibility in Cost management + Billing via distinct \$meters
- Disables core features



### *Can alter the selection at any time*

- Use Azure portal or script to change between license types
- Takes effect the next hour



# Management Capabilities Comparison

Not supported

Supported

Future support

	Customer Infrastructure or 3P Clouds		Azure
Built-in capabilities	SQL Server	Arc Enabled SQL Server	SQL Server Azure VM
Pay-as-you-go billing			
Azure AD auth			
Best practices assessment			
Inventory management			
Auto patching			
Auto backup			
Monitoring			
Defender for SQL Server			
TDE with Azure Key Vault			
HA/DR inventory management			
License compliance management			
Cluster aware patching and upgrades			
Purview premium			
Point-in-time restore			
Backup long-term retention to Azure			

\*Some information regarding product roadmap may be substantially modified before it's commercially released. Microsoft makes no warranties, express or implied, with respect to the information provided here.

# New cloud billing model for SQL Server (Pay As You Go\*)

Better cost efficiency when paying only for what you use



**SQL Server pay-as-you-go  
licensing enabled by Azure Arc**  
(per core per month/hour)

Pricing	Monthly rate	Hourly rate
Standard Edition	\$73	\$0.100
Enterprise Edition	\$274	\$0.375



## Optimize asset capitalization

- Organizations that focus on EBITDA and capitalized expenses prefer to purchase their licenses. Customers that bill on a cost-plus or other expense-based chargeback model will prefer the Pay-As-You-Go model.



## Optimize upfront costs

- Pay-As-You-Go doesn't have any upfront costs and is billed monthly but in the long term it may have a higher TCO



## Optimize for periodic consumption

- Reduced IP cost of periodic workloads such as of ERP, payroll, giving campaigns and others
- Scale down the entire VM or stop SQL Server instance

Available on SQL Server 2014, 2016, 2017, 2019, and 2022

\* Traditional Licensing Options are still available. More [here](#)

# Microsoft Defender for SQL Server

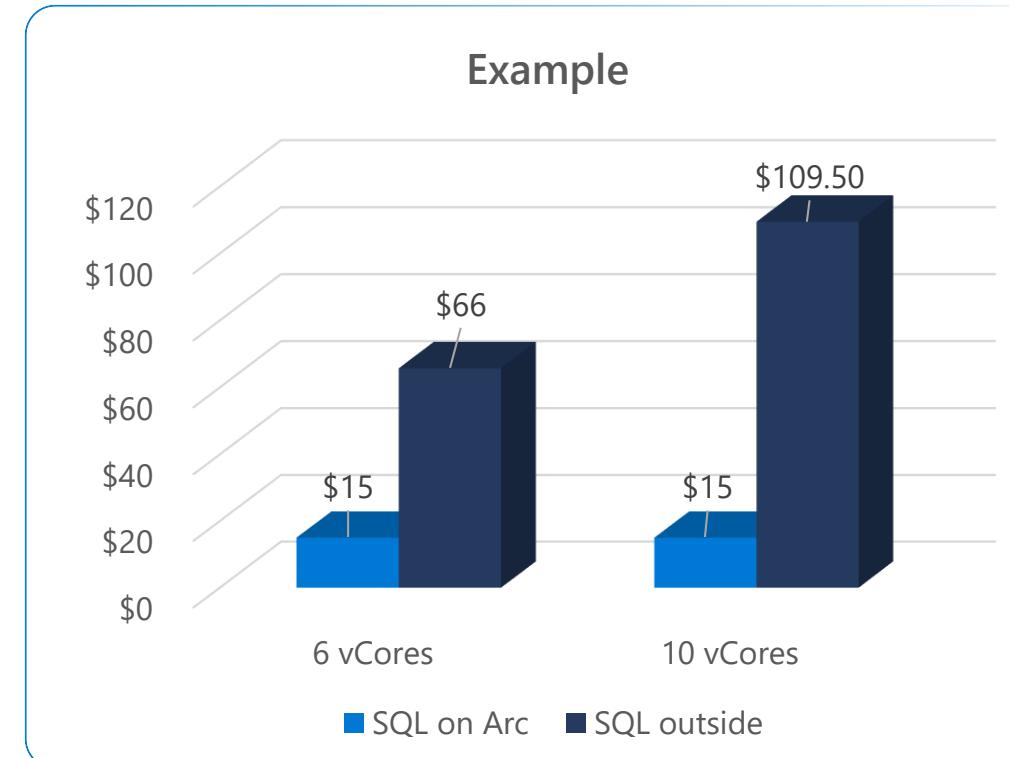
Better cost efficiency when paying through Azure Arc



Defender for SQL can be enabled through Arc or without

Pricing	Monthly rate	scope
SQL on Azure-connected databases (including Arc enabled)	\$15*	/instance/month
SQL outside Azure	\$10.95*	/vCore/month

Nearly 80% savings for the customer when using Defender for SQL with Arc



\* This estimation is based on Azure Commercial Pricing for West US Region as of April 2023.

# Demonstration

Arc Enabled SQL Server demonstration



# Questions?



# Knowledge Check

Which feature can you use in Azure Arc enabled SQL Server to protect your SQL Server?

Which feature can you use in Azure Arc enabled SQL Server to get insights of your SQL performance?

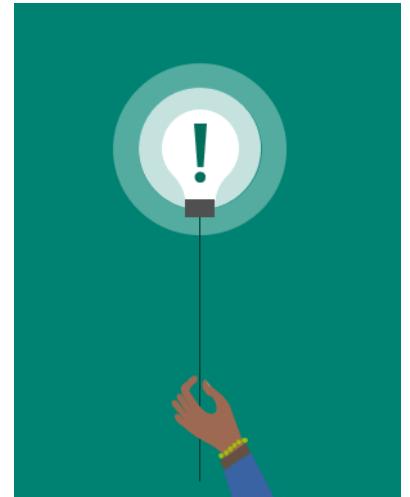
True/False? Defender for Cloud is cheaper when you pay it through Azure Arc?

# Lesson 2: Microsoft Azure Purview

# Objectives

After completing this learning, you will be able to:

- Explain what Purview is about
- Explain how to integrate SQL Server



# How Azure Purview solves data challenges?

Azure Purview allows building a catalog of data sources

Catalog of data sources is built automatically

Enterprises can leverage all their information assets

Data sources are discovered and presented in a comprehensive way for both technical and non-technical users

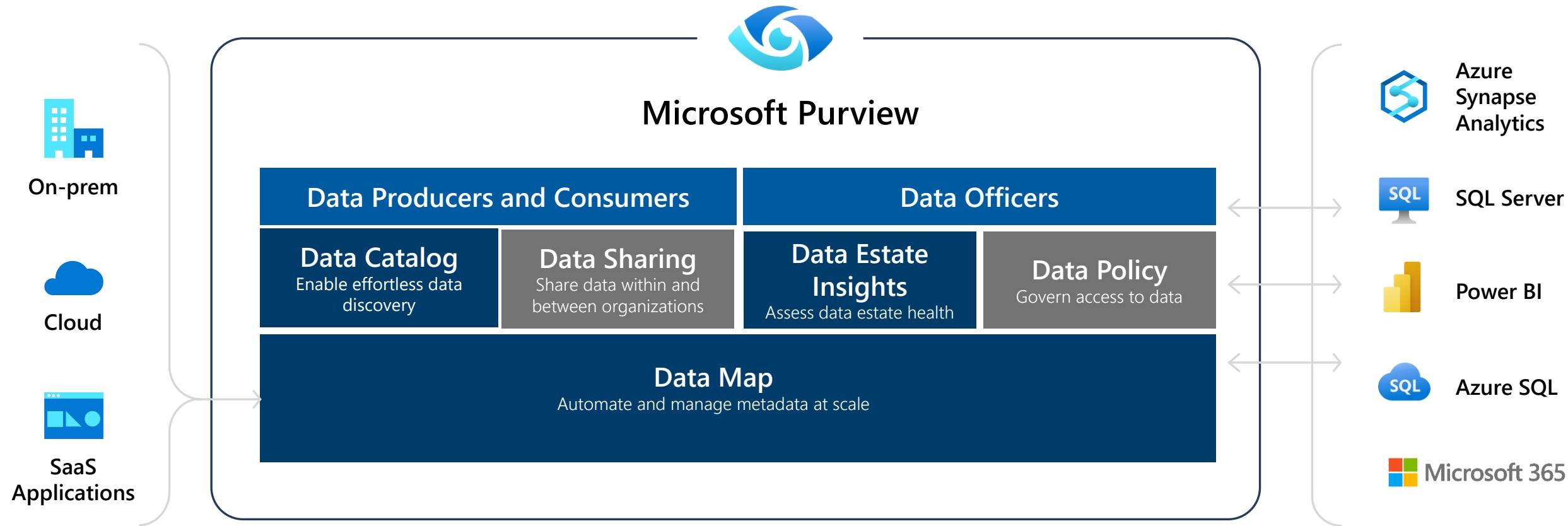
Enterprises can assess their compliance and risk



Generally Available

Preview

# Unified Data Governance with Microsoft Purview



# Azure Purview

## UNIFIED DATA GOVERNANCE

### Data Map

- Automate and manage metadata at scale

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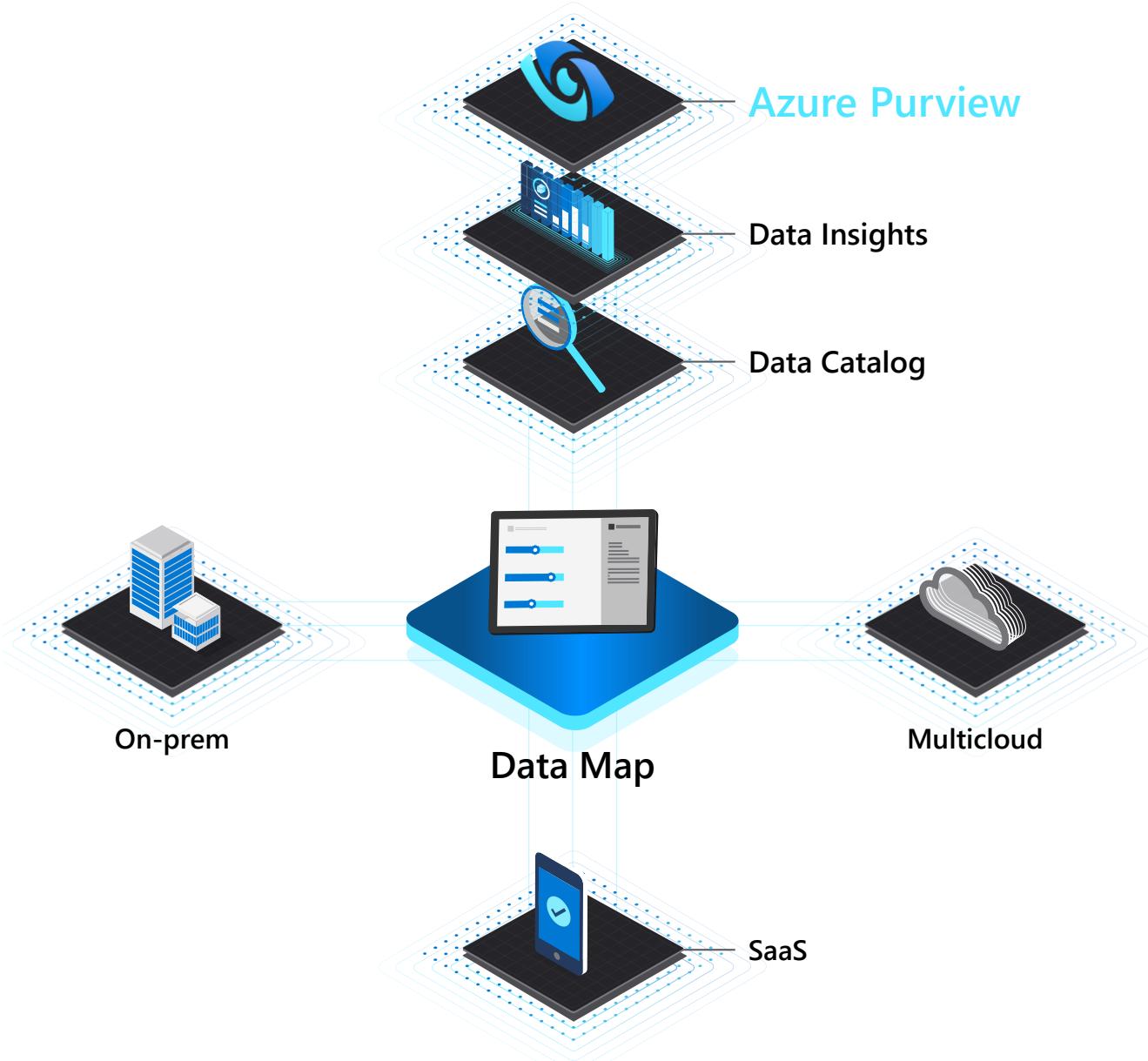
### Data Catalog

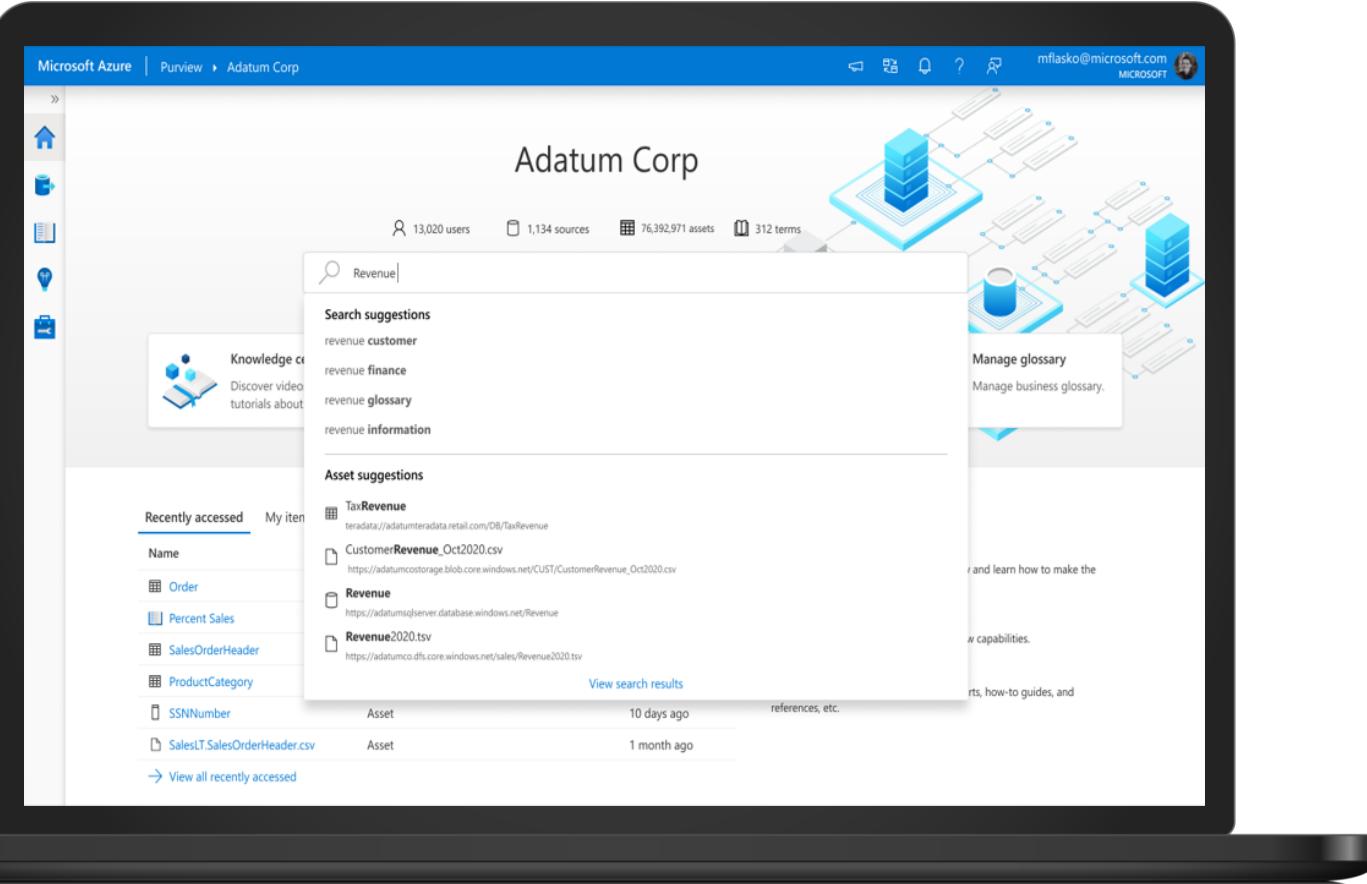
- Enable effortless discovery for data consumers

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### Data Insights

- Assess data usage across your organization



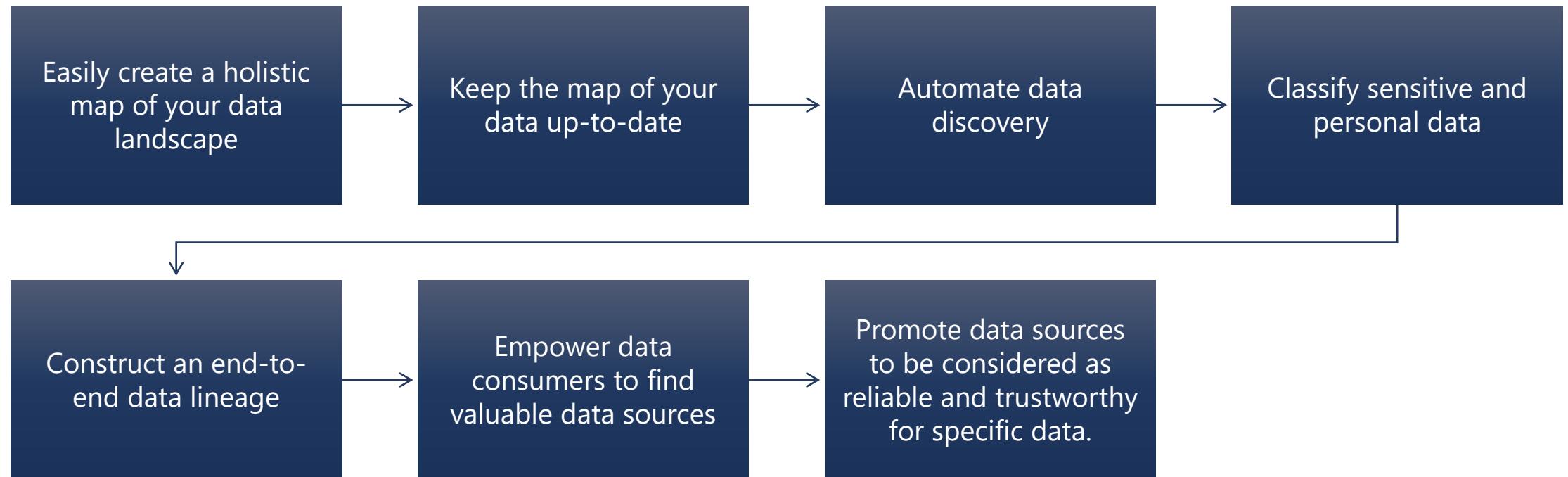


# Enable effortless discovery of trusted data with Purview Data Catalog

- Search, browse & curate
- Intelligent recommendations
- Lineage visualization



# With Azure Purview you can



# Azure Purview

## Components & Features

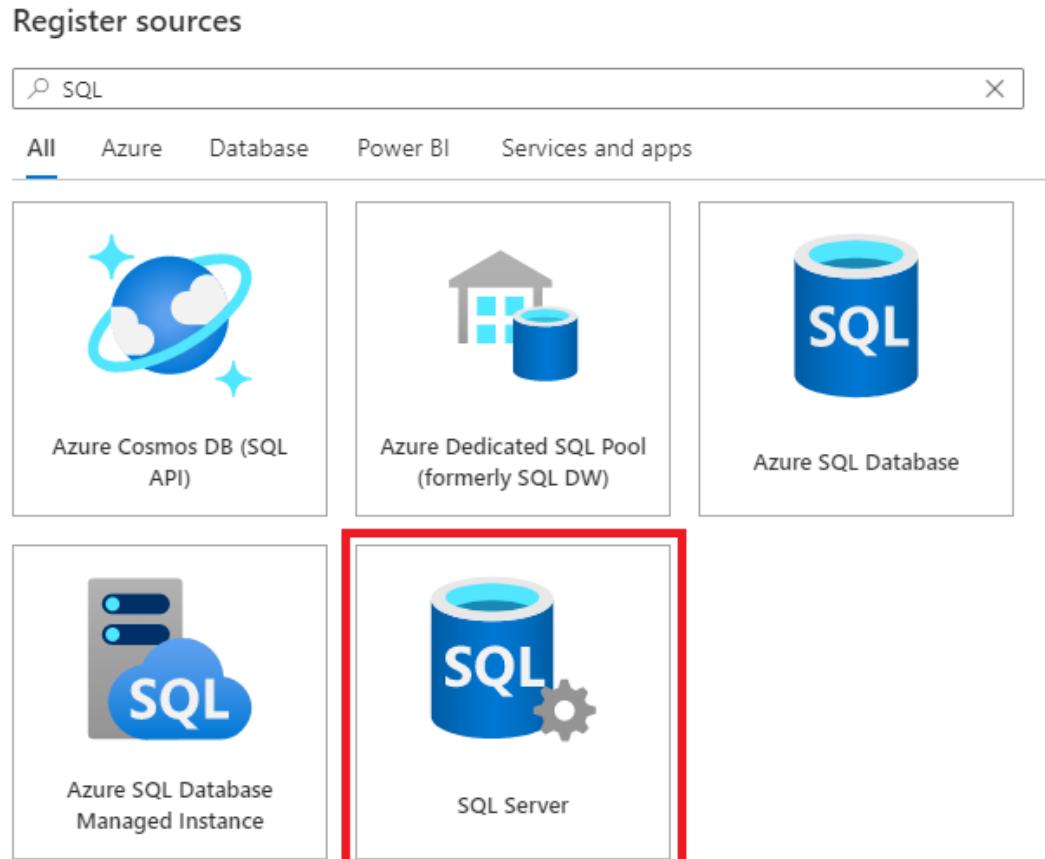
Data Map is the building block for Data Catalog



Azure Purview Studio

	Generally Available	In Preview
<b>Purview Data Map</b>		
Automated scanning of hybrid sources	●	
Multi Cloud Scanning for AWS S3	●	
Data Classification	●	
Apache Atlas API support	●	
<b>Purview Data Catalog</b>		
Search and Browse	●	
Business Glossary	●	
Data Lineage	●	
<b>Purview Data Insights</b>		
Assets and Scans Reports		●
Glossary reports		●
Classification and Labelling Reports		●
Asset-level drill down by sensitivity		●
<b>Purview Integrations</b>		
Purview in Azure Synapse workspaces	●	
Power BI Integration	●	
SQL Server Integration	●	
Azure SQL Integration	●	
Microsoft Information Protection Sensitivity Labels support		●

# Register your on premises SQL Server

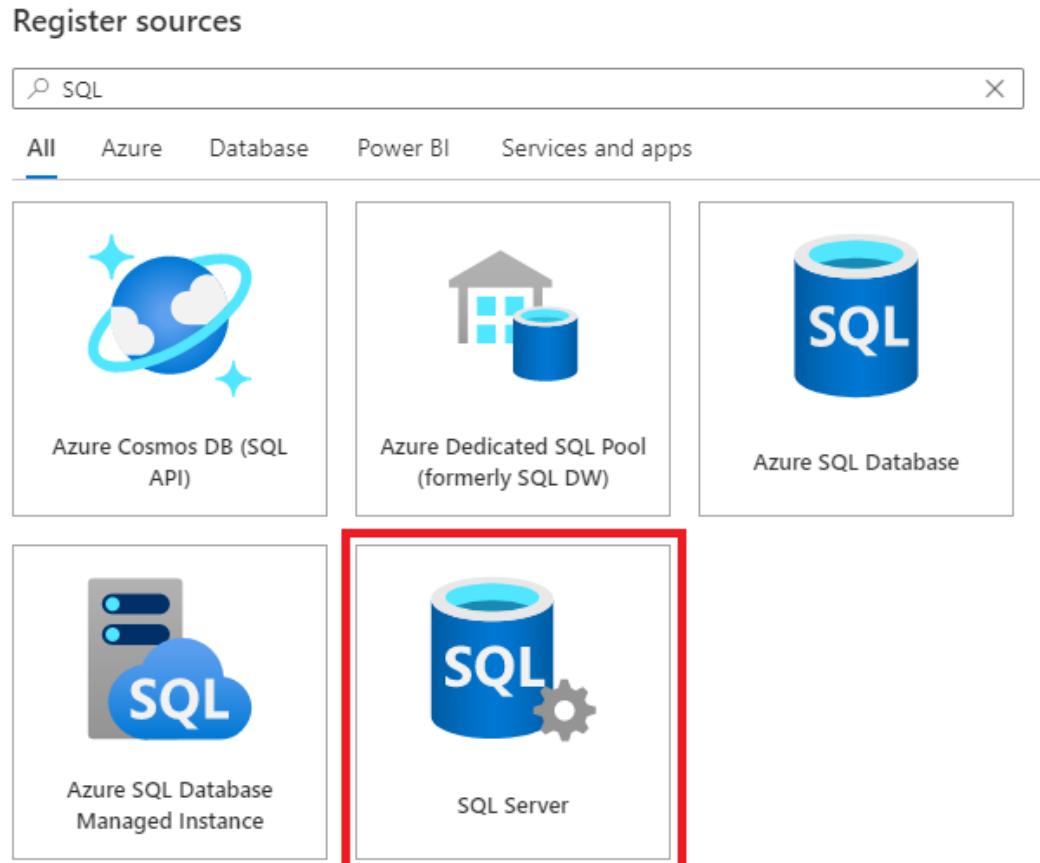


## Prerequisites

- An Azure account with an active subscription.
- An active Purview account
- Role of Data Source Administrator and Data Reader to register a source and manage it in the Microsoft Purview governance portal
- Set up the latest self-hosted integration runtime

[Tutorial: Register and scan an on-premises SQL Server | Microsoft Learn](#)

# Register your on premises SQL Server – Supported capabilities



## Supported

- Metadata extraction
- Full scan
- Incremental scan
- Scoped scan
- Classification
- Labeling
- Access Policy (Preview, SQL 2022)

## Not supported

- Data sharing
- Live view

The supported SQL Server versions are 2005 and above. SQL Server Express LocalDB isn't supported.

# Sources

Map your data to manage an enriched metadata map of operational and transactional data no matter where it lives

## Benefits

- Automated scanning of on-prem, multicloud, SaaS data
- Discover Azure data sources, PowerBI, SQL better. Leverage turnkey integrations with Power BI, SQL (on-prem, azure, MI) and key Azure Data Services such as Azure Synapse, Cosmos DB, ADLS.
- Manage metadata and scale understanding of data with automated, fully managed, serverless metadata management capability
- Leverage Apache Atlas Open APIs to programmatically publish metadata and lineage from a wide range open-source data systems

The screenshot shows the Microsoft Azure Purview Studio Sources interface. The top navigation bar includes 'Microsoft Azure', 'Purview', 'Adatum Corp', a search bar for 'Revenue', and user information for 'mflasko@microsoft.com' and 'MICROSOFT'. On the left, there's a sidebar with icons for Home, Register, New collection (which is highlighted with a red box), Refresh, and a search bar. The main content area is titled 'Sources' and shows 'Showing 5 collections, 1133 sources'. It lists five collections: 'NorthAmericaDataCenter', 'EuropeDataCenter', 'AzureAndBInNorthAmerica', 'AmazonNorthAmerica', and 'AzureEurope'. Each collection has a 'View details' button. Below each collection, there's a grid of data sources with icons and 'View details' buttons. For example, 'NorthAmericaDataCenter' includes 'OnPremSQLServer-Fin...' (SQL Server), 'Teradata-FinanceData' (Teradata (Preview)), 'HiveMetastore' (Hive Metastore (Preview)), 'FinanceSQLServer' (SQL Server), and 'Teradata' (Teradata (Preview)). The 'Map view' button is located in the top right corner of the main content area.

# Enhanced Metadata, Lineage & Labels

Microsoft Azure | Purview > Contoso Search assets ? CONTOSO

Sales Fact (Confidential, Certified) SQL Table

Edit Refresh Pin Synapse Analytics

Overview Schema Lineage Contacts Related

Version date: 2020-10-12 Search for assets or processes

The screenshot shows the Microsoft Purview Lineage interface for a 'Sales Fact' asset. The asset is marked as 'Confidential' and 'Certified'. The 'Lineage' tab is selected. The lineage diagram illustrates the flow of data from a 'Sales Fact' SQL Table through various stages to multiple reports.

**Lineage Flow:**

- Sales Fact (SQL Table)** is the source asset.
- Data flows through a **Copy\_5zq** activity to a **Purchase** activity.
- From Purchase, data flows through a **Prep & Transf...** activity to a **Sales** table.
- From Sales, data flows to a **Rebates Summary** table.
- From Sales, data also flows through a transformation node to a **Rebates** table.
- The **Rebates** table feeds into a **Report A**.
- The **Sales** table feeds into a **Report 1** and a **Report 2**.
- There are two separate PowerBI Workspaces: **Worldwide Sales** and **Worldwide Rebates**. The **Sales** table is present in both workspaces, indicating it is a central asset.

# Questions?



# Knowledge Check

True or False: Only SQL Server 2022 can be connected to Microsoft Azure Purview?

What is a scan in Microsoft Azure Purview?

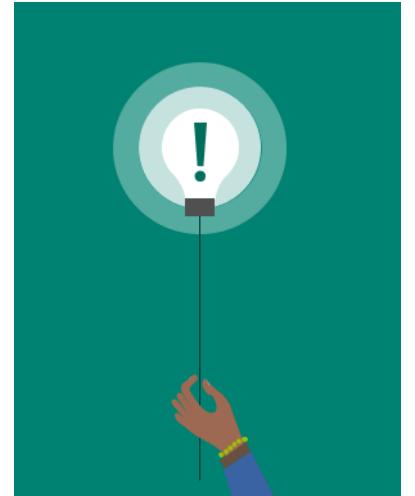
True or False: For connection an on prem SQL Server a self hosted integration runtime is necessary?

# Lesson 3: Azure Synapse Link for SQL Server

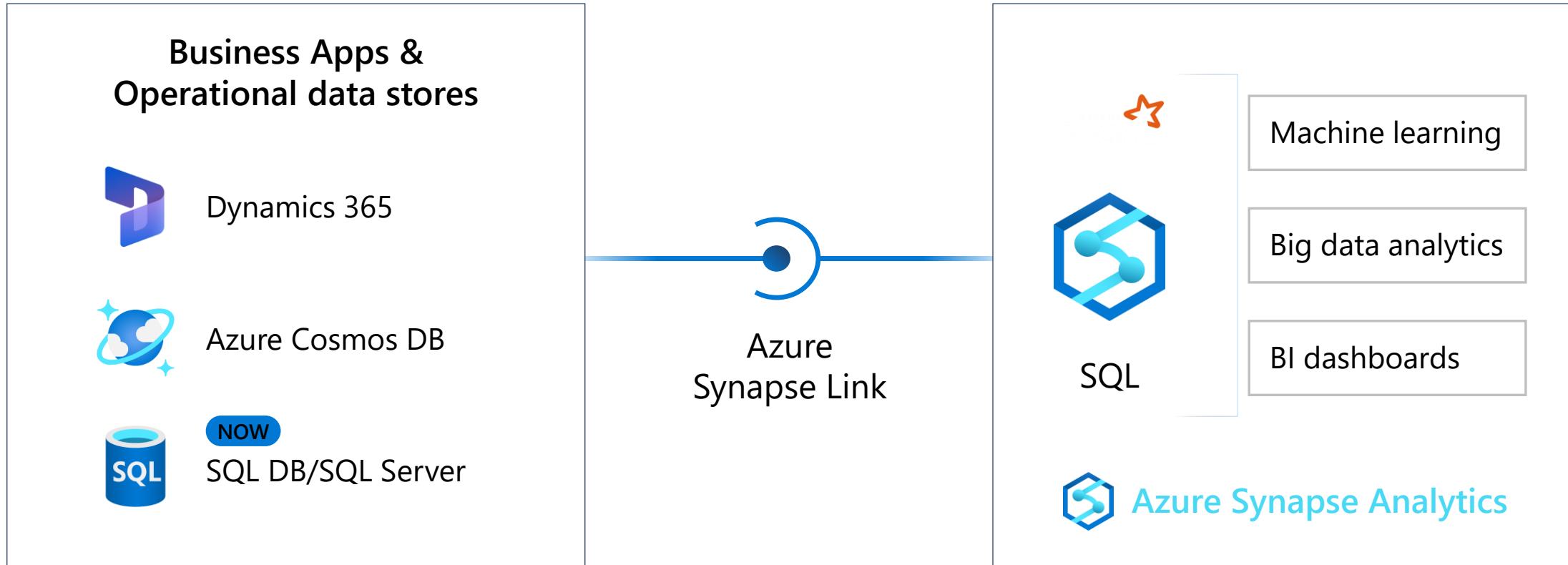
# Objectives

After completing this learning, you will be able to:

- Explain the core concepts of Azure Synapse Link for SQL Server 2022
- Explain the benefits of Azure Synapse Link for SQL
- Explain the prerequisites and limitations of Azure Synapse Link for SQL
- Explain common use cases for Azure Synapse Link for SQL



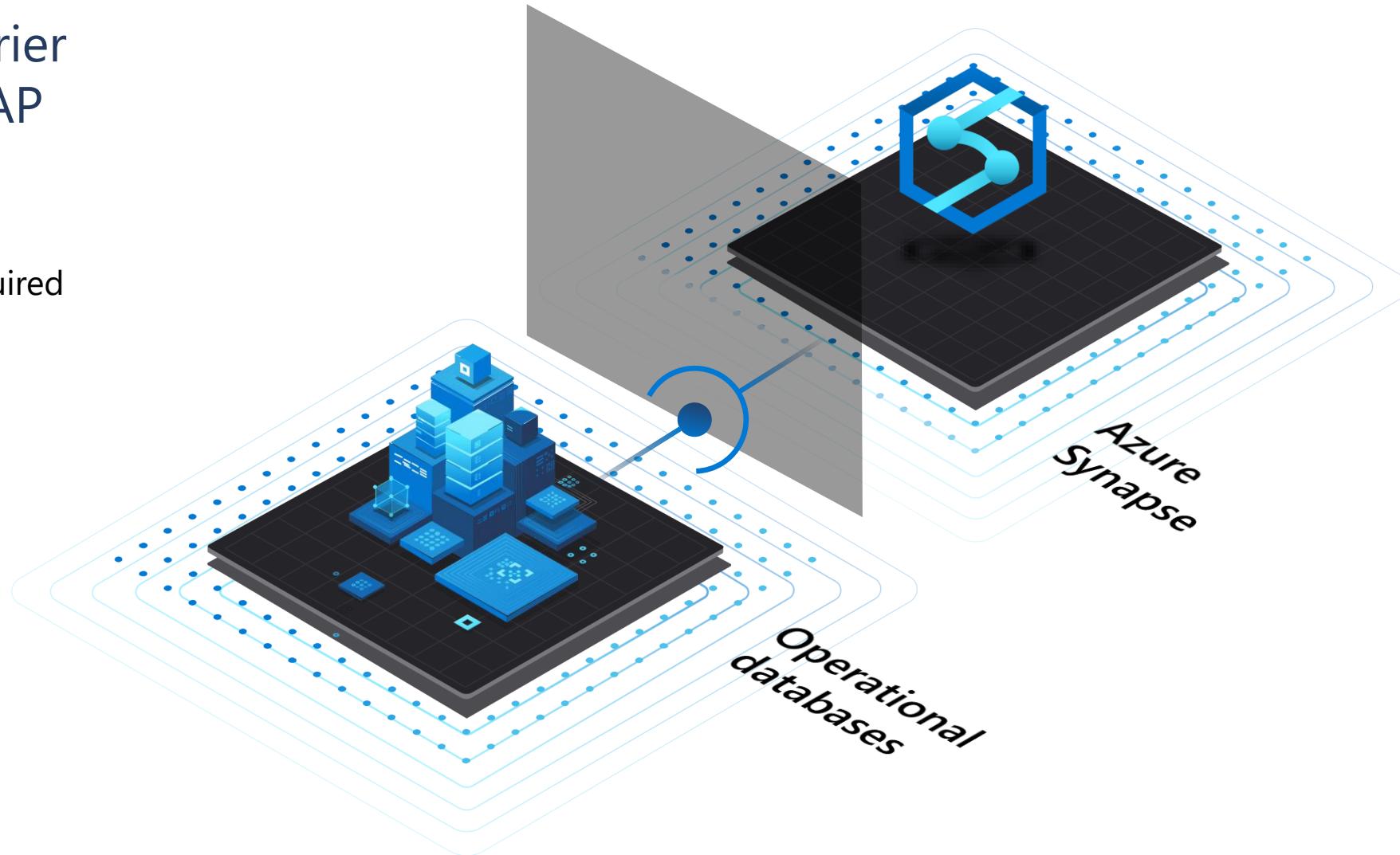
# Synapse Link offerings



# What is Azure Synapse Link for SQL?

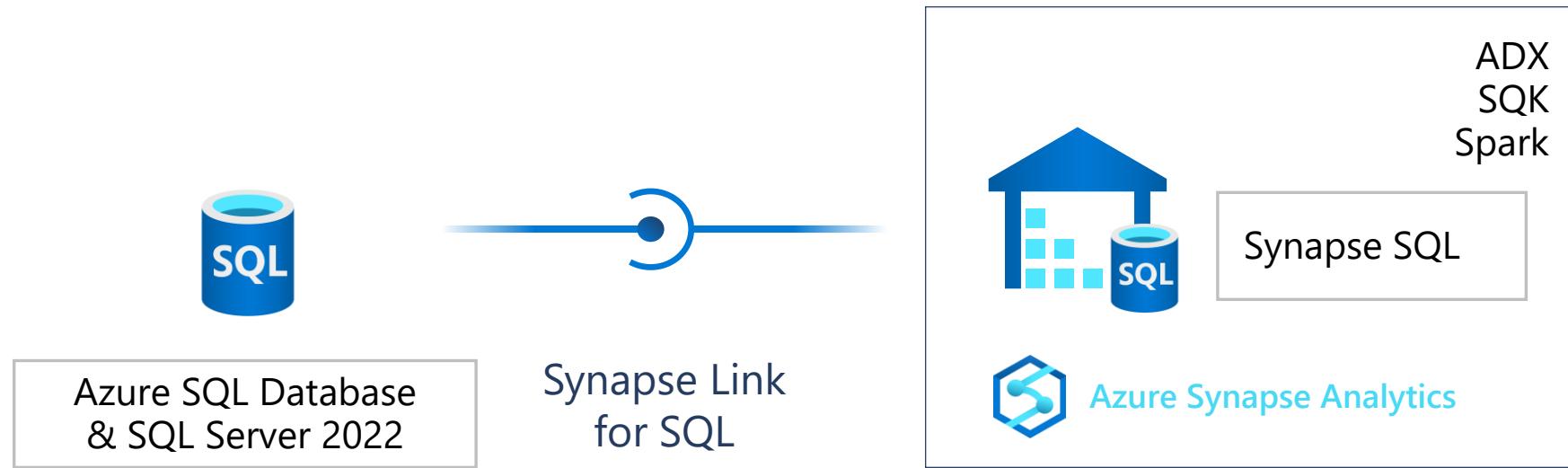
Breaking down the barrier  
between OLTP and OLAP

- Near real-time data analytics
- No customer-managed ETL required
- Built for convergence



# Azure Synapse Link for SQL

Empower near real time analytics over operational data in Azure SQL Database and SQL Server 2022.



- Minimum impact on operational workload → The latest SQL change feed technology
- No custom ETL → Fully managed experience to land operational data in Azure Synapse dedicated SQL pool
- Near real-time insights into your operational data → Continuous data replication from Azure SQL DB or SQL Server 2022

# Azure Synapse Link for SQL – value prop



Faster time to insights



Low-Code/No-Code  
solution for data  
movement

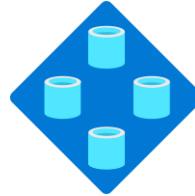


Leverage the power  
of Azure Synapse  
Analytics against your  
operational data

# Core concepts



Source database:  
Azure SQL Database  
SQL Server 2022



Designation database:  
Synapse dedicated  
SQL pool



Link connection:  
A mapping relationship between the source database (Azure SQL Database or SQL Server 2022) and an Azure Synapse dedicated SQL pool.

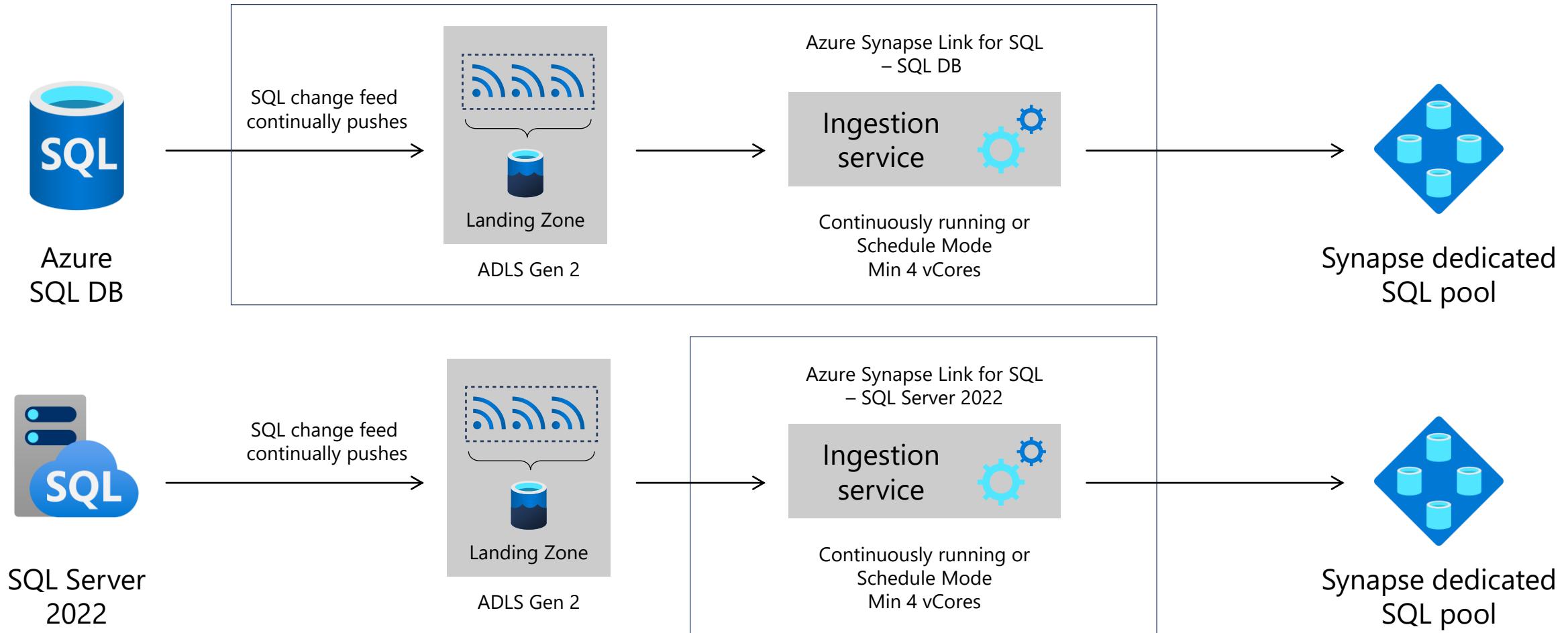


Landing zone:  
An interim staging store for Azure Synapse Link for SQL. System-managed for Azure SQL Database. Customer-managed for SQL Server 2022.



Self-Hosted Integration Runtime (SQL Server 2022 only): A software agent that brokers communication between Azure Synapse Analytics and SQL Server 2022.

# Synapse Link for SQL - architecture



# Azure Synapse Link for SQL – more features



Fully managed

Performant and enterprise ready



Interoperability

Integrates with all Synapse capabilities



1:1 Mapping

Synapse link tables mirror the operational store with no data loss



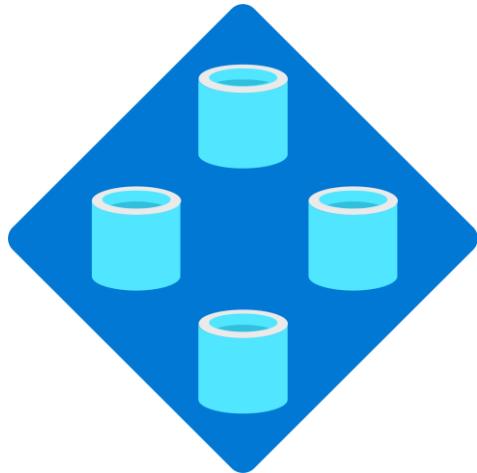
Transactionally consistent

Synapse Link Connections are updated within transactional boundaries

Supports PaaS, IaaS and on-premises

# Key limitations

Required use of dedicated SQL pool



DDL commands not supported, including

- Add Column
- Drop Column
- Rename Column
- Truncate Table
- Switch Partition

[Limitations and known issues with Azure Synapse Link for SQL - Azure Synapse Analytics | Microsoft Learn](#)

# Choose your source tables

Upon creating a new link connection, you are easily able to choose which tables to bring in, along with previewing the data

The screenshot shows the Microsoft Azure Synapse Studio interface. On the left, the 'Integrate' workspace is displayed with a message: 'No items to show. Try creating a new item using the + button above.' A 'Filter resources by name' input field is present. On the right, a 'New link connection' dialog box is open. It includes sections for 'Source database settings' (with 'Source type' set to 'Azure SQL database'), 'Source linked service' (set to 'SchoolLS'), 'Source managed identity ID' (set to 'shireenserver (System-assigned - 693fba77-52d5-49fc-af31-c2631b613e0e)'), and 'Source tables' (a list of 8 tables: dbo.OnsiteCourse, dbo.OnlineCourse, dbo.StudentGrade, dbo.CourseInstructor, dbo.Course, and dbo.OfficeAssignment). The 'dbo.Course' row is highlighted with a blue selection bar. At the bottom of the dialog are 'Continue' and 'Cancel' buttons.

Microsoft Azure | shireen-demo

Search

Synapse live Validate all Publish all

Integrate

+ Filter resources by name

No items to show  
Try creating a new item using the + button above. Learn more

New link connection

Synapse Link connection allows you to perform analytical processing on your operational data. [Learn more](#)

Source database settings

Select a source and the set of tables you would like to include in the link connection.

Source type \*

Azure SQL database

Source linked service \* ⓘ

SchoolLS

Source managed identity ID \*

shireenserver (System-assigned - 693fba77-52d5-49fc-af31-c2631b613e0e)

Source tables \* ⓘ

Filter by source table name

Showing 1-8 of 8 items (1 selected)

<input type="checkbox"/>	Name	Preview
<input type="checkbox"/>	dbo.OnsiteCourse	
<input type="checkbox"/>	dbo.OnlineCourse	
<input type="checkbox"/>	dbo.StudentGrade	
<input type="checkbox"/>	dbo.CourseInstructor	
<input checked="" type="checkbox"/>	dbo.Course	
<input type="checkbox"/>	dbo.OfficeAssignment	

Continue Cancel

# Customize your target tables

After selecting your tables, you are able to rename your tables in the dedicated SQL pool, along with picking a distribution type and structure type

The screenshot shows the Microsoft Azure Synapse studio interface. The top navigation bar includes 'Microsoft Azure' and 'shireen-synapse'. The main area is titled 'Integrate' and shows a pipeline named 'schoolsynapselink'. The pipeline interface includes sections for 'Source table', 'Target table', 'Distribution Type', 'Distribution C...', and 'Structure type'. The 'Source table' section lists tables from the 'Schools' database: 'dbo.Department', 'dbo.Person', 'dbo.OnsiteCourse', 'dbo.OnlineCourse', 'dbo.StudentGrade', 'dbo.CourseInstructor', 'dbo.Course', and 'dbo.OfficeAssignment'. The 'Target table' section shows the target tables with their respective schemas and names. The 'Distribution Type' and 'Structure type' sections show 'Round robin' and 'Clustered columnstore index' respectively for all mappings. At the bottom, the 'General' section specifies the 'Type' as 'Azure SQL database' and the 'Linked service' as 'SchoolLS'.

# Continuous replication of data

Once the link connection is started, the tables will continuously replicate the data into the dedicated SQL pool and detect any changes to the source data (INSERTS, UPDATES, and DELETES)

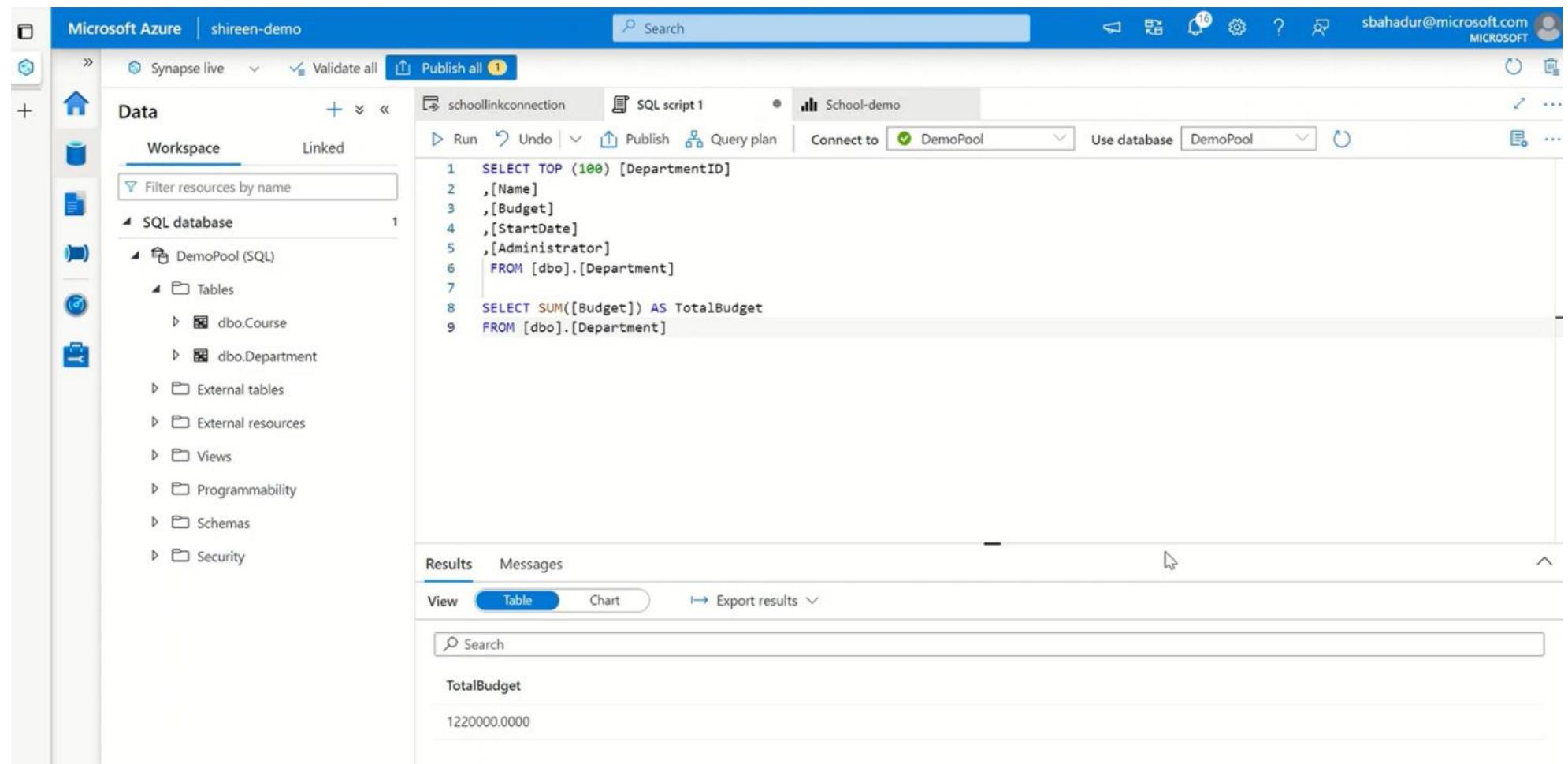
The screenshot shows the Microsoft Azure Synapse studio interface. The left sidebar has a 'Link connection' section with one item named 'schoolsynapselink'. The main area is titled 'schoolsynapselink' and shows a table mapping from source tables to target tables. The table details the following mappings:

Source table	Target table	Distribution Type	Structure type
dbo.Department	dbo . Department	Round robin	Clustered columnstore index
dbo.Person	dbo . Person	Round robin	Clustered columnstore index
dbo.OnsiteCourse	dbo . OnsiteCourse	Round robin	Clustered columnstore index
dbo.OnlineCourse	dbo . OnlineCourse	Round robin	Clustered columnstore index
dbo.StudentGrade	dbo . StudentGrade	Round robin	Clustered columnstore index
dbo.CourseInstructor	dbo . CourseInstructor	Round robin	Clustered columnstore index
dbo.Course	dbo . Course	Round robin	Clustered columnstore index
dbo.OfficeAssignment	dbo . OfficeAssignment	Round robin	Clustered columnstore index

Below the table, there are sections for 'General', 'Source database' (Type: Azure SQL database, Linked service: SchoolLS), and 'Advanced'.

# Run SQL queries on your replicated data

As the data is continuously replicating, you have the ability to run SQL queries on all the tables that have been brought into your dedicated SQL pool



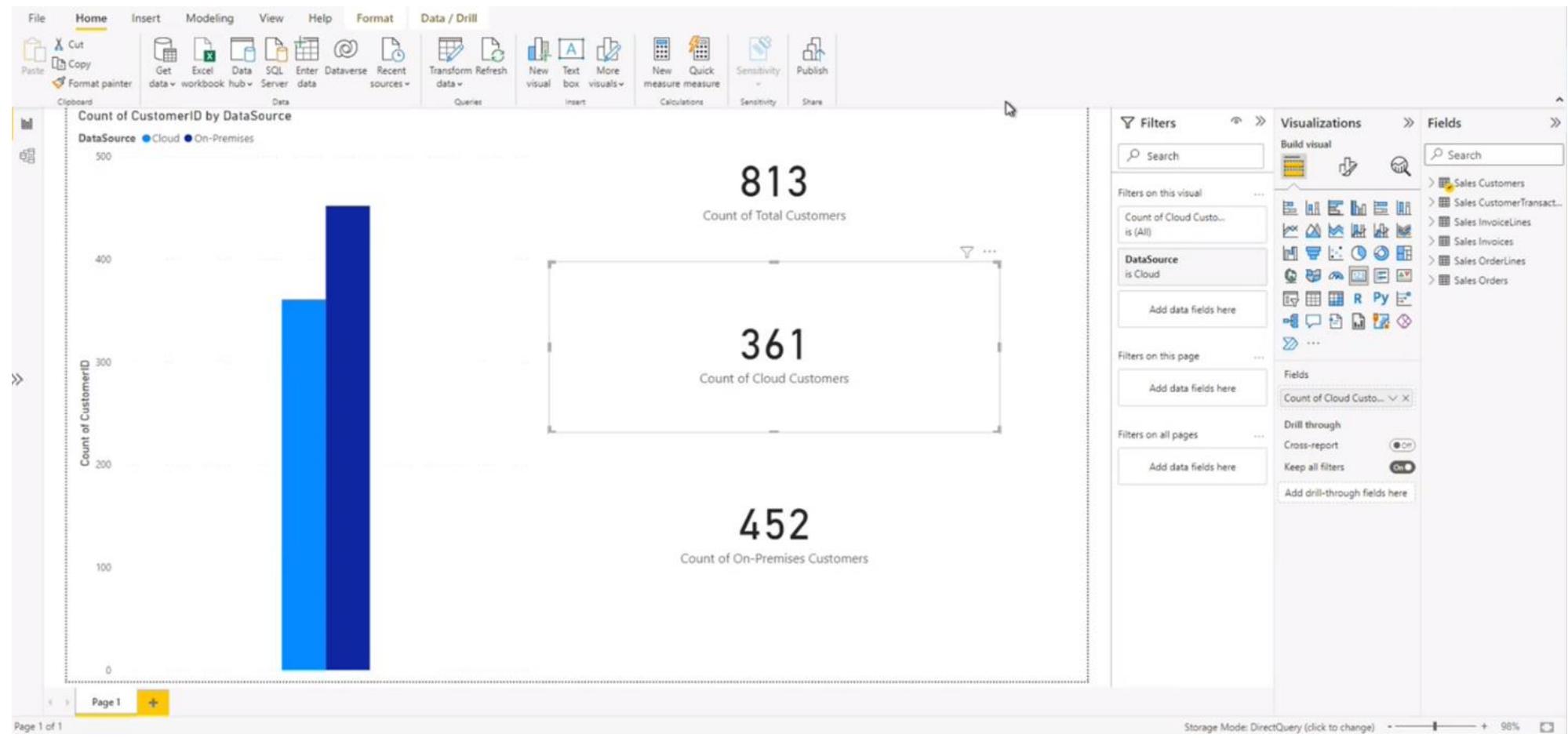
The screenshot shows the Microsoft Azure Data Studio interface. On the left, the sidebar displays a workspace named 'shireen-demo' under the 'Data' category, with a 'SQL database' section expanded to show 'DemoPool (SQL)' and its various objects like Tables, External tables, Views, etc. In the main area, a query script titled 'SQL script 1' is open, containing the following SQL code:

```
1 SELECT TOP (100) [DepartmentID]
2 ,[Name]
3 ,[Budget]
4 ,[StartDate]
5 ,[Administrator]
6 FROM [dbo].[Department]
7
8 SELECT SUM([Budget]) AS TotalBudget
9 FROM [dbo].[Department]
```

The 'Results' tab is selected at the bottom, showing the output of the query: 'TotalBudget' with the value '1220000.0000'. The top right corner of the interface shows the user's email 'sbahadur@microsoft.com' and the Microsoft logo.

# Connect to Power BI for your real-time reporting

You are able to connect Power BI to your dedicated SQL Pool and create reports and dashboards on your data for reporting and analytical purposes



# Demonstration

Link SQL 2022 to Azure Synapse  
dedicated Pool



# Synapse Link for SQL

## SQL Server 2022 and Azure SQL Database

- Azure Monitoring integration**

Ability to show historical trend of events, processed data volume and latency

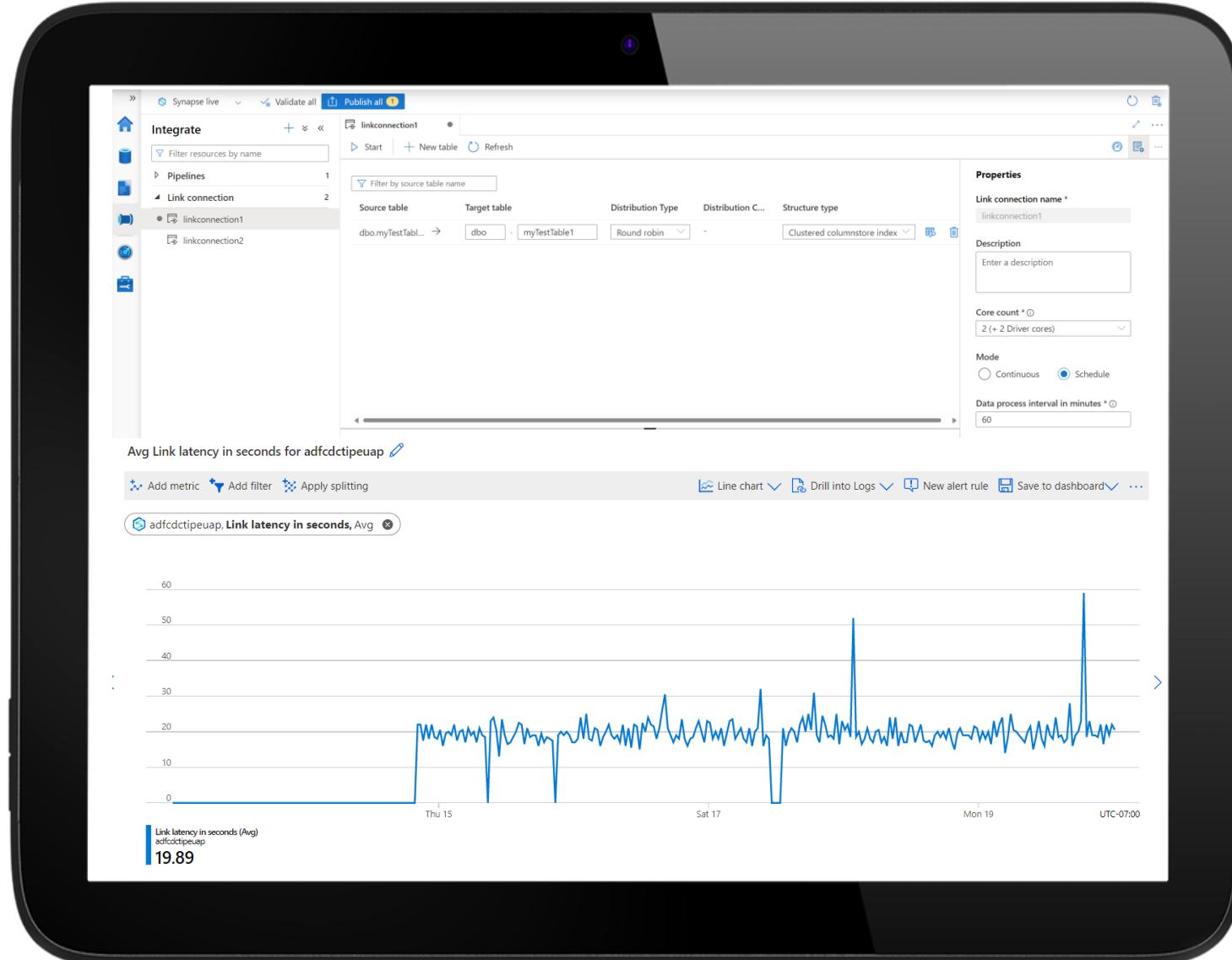
- Single node cluster support**

**(for lesser cores)**

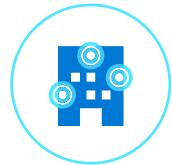
Four cores are now supported in a single node for improved cost optimization

- User defined latency**

Ability to schedule frequency of syncs up to 60 minutes to optimize cost



# New GA features in Azure Synapse Link for SQL enabled Nov '22



## Enterprise monitoring

Azure Monitor integration



## Security

Enable less-privileged (Control Database) setup by removing db\_owner requirement

*(Azure SQL)*



## UX improvement

Enable customers to easily discover Synapse Link for SQL in Azure SQL Database



## Cost optimization

Ability to pause and resume a link connection without restarting the initial load



## Data type support

Full fidelity for datetime2 and time data types

# Questions?



# Knowledge Check

True or False: When using Azure Synapse Link for SQL Server you have to manually program the ETL process to get the on prem SQL Server 2022 data into Azure Synapse

True or False: You can use Azure Synapse serverless SQL pool for the connection to Synapse link for SQL Server

What are some of the DDL commands not supported on you on prem SQL database tables when used in Synapse link?

