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# 17th edition SQLDay Conference

12-14 May 2025, WROCŁAW + ONLINE

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## Platinum sponsors

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## Gold sponsors

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## Silver sponsors

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# 1 Üzüvý Üm GýdU E! Ný2

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o GžGŷbū Gý  
ÜE! Gd  
Üzüvý Üm GýD

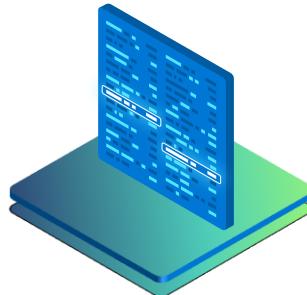
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Üzüvý Üm Gý

1| b ÜDý Ülýl!  
bý EUEkŷÜ!  
ÜDý ÜEGD

# Try Azure SQL Managed Instance free of charge

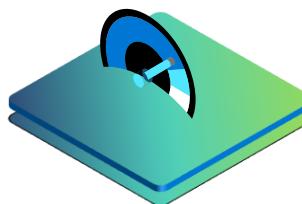
Get **750 vCore hours** of compute and **64 GB of storage** every month!

More than enough **compute**



**Intel® Xeon® Scalable 2.8 GHz**  
processors provide ample performance for  
your dev/test or proof of concept  
requirements.

Use it for **12 months**



Use this free offer to support your  
migration proof of concepts **for 12  
months**.

**What's included:**



- **One instance** per Azure subscription
- **4 or 8 vCores** of General Purpose compute
- **750 vCore/hours** per month.



**64 GB of data**, out of which:

- 32 GB data storage +
- 32 GB backup storage.

**Learn More:** [aka.ms/freesqlMI](http://aka.ms/freesqlMI)

Microsoft Azure (Preview) Search resources, services, and docs (G+/-) Copilot |

Home > Create a resource > Marketplace >

## Create Azure SQL Managed Instance

Microsoft

November 2022 feature wave is available for this subscription. Click here to learn more. →

**Basics** Networking Security Additional settings Tags Review + create

SQL Managed Instance is a fully managed PaaS database service with extensive on-premises SQL Server compatibility and native virtual network security. [Learn more](#)

Want to try SQL MI for free? Create Azure SQL Managed Instance with 720 vCore hours and 64 GB of storage free for 12 months. [Learn more](#)

**Apply free offer (Preview)**

**Project details**

Select the subscription to manage deployed resources and costs. Use resource groups like folders to organize and manage all your resources.

Filter subscriptions, regions and subnets to only show those compatible with November 2022 feature wave **No** **Yes**

**Estimated costs per month**

Compute	\$0.00
Cost per VCore (in undefined GeneralPurpose - Gen5)	\$0.00
Vcores selected Provisioned	8
Storage	\$0.00
Cost per GB (in undefined)	\$0.00

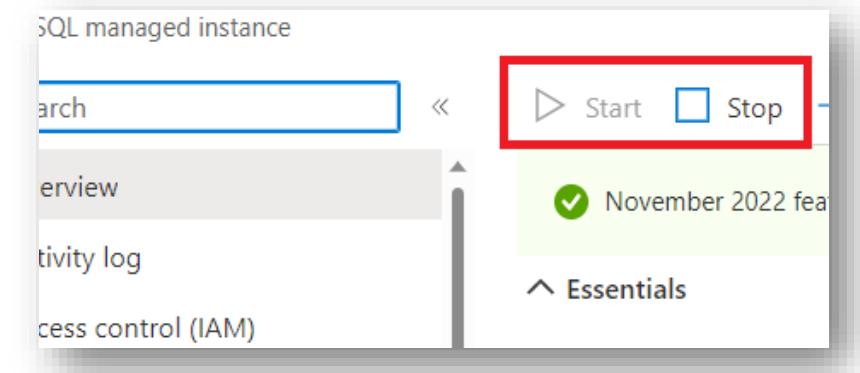
**Review + create** **< Previous** **Next : Networking >** **< Previous**

Learn more: <https://aka.ms/sqlmi-free>



# Leverage Start / Stop in SQL Managed Instance GP for optimal cost

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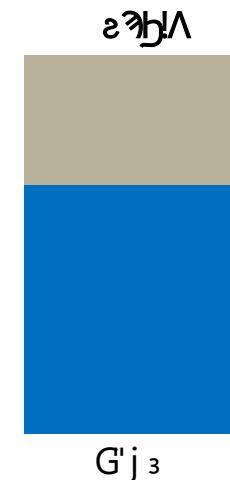
# Leverage Start / Stop in SQL Managed Instance GP for optimal cost

Нэгэндээсээс! Нэгэндээсээс  
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үйн дүн үзүүлж барах

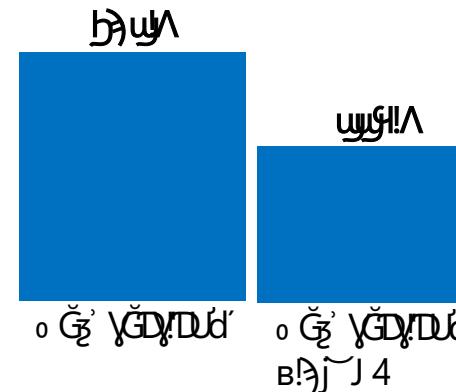
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үйн дүн үзүүлж барах

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4% үзүүлж ГУДҮҮБГИЙН! Экзэмпелүүдийн! 1% үзүүлж  
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+ үдэхүүнүүдээсээс



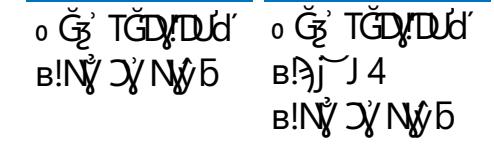
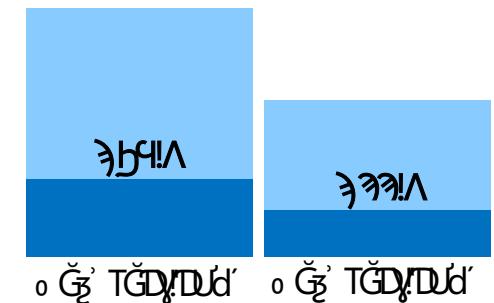
discount  
35.4%



discount  
58%

## Одоогийн үзүүлж

Нэгэндээсээс! Нэгэндээсээс



discount  
80.8%



discount  
87.4%



# Two ways to Start/Stop an instance

## On-demand

The screenshot shows the Azure portal interface for a SQL managed instance named 'zoranrilak-workbench-mi'. The main navigation bar includes 'Home', 'SQL managed instances', and the instance name. Below the instance name, there's a search bar and two prominent buttons: 'Start' and 'Stop', which are highlighted with a red box. To the right of these buttons is a '+ New database' button. The left sidebar contains links like 'Overview', 'Activity log', 'Access control (IAM)', 'Tags', 'Diagnose and solve problems', 'Quick start', and 'November 2022 feature wave'. The 'Settings' section at the bottom includes 'Compute + storage', 'Connection strings', 'Distributed Transactions Coordinator', 'Maintenance', and 'Start/Stop Schedule'. The 'Start/Stop Schedule' link is also highlighted with a red box.

## Scheduled

The screenshot shows the 'Start/Stop Schedule' blade for the 'zoranrilak-workbench-mi' instance. The blade has a header 'zoranrilak-workbench-mi | Start/Stop Schedule' and a sub-header 'SQL managed instance'. It includes a search bar and a note: 'Events are defined in pairs and needs to have both start and stop populated. It is possible to define multiple events for one day.' The 'Time zone' is set to '(UTC-06:00) Central Time (US & Canada)'. The main area displays a table with five rows, each representing a day of the week from Monday to Friday. Each row has four columns: 'Start (Day)', 'Start (Time)', 'Stop (Day)', and 'Stop (Time)'. The data is as follows:

Start (Day)	Start (Time)	Stop (Day)	Stop (Time)
Monday	08:00 AM	Monday	08:00 PM
Tuesday	08:00 AM	Tuesday	04:00 PM
Wednesday	09:00 AM	Wednesday	06:00 PM
Thursday	08:00 AM	Thursday	08:00 PM
Friday	08:00 AM	Friday	04:00 PM

- НЭСГЭҮҮГЭ! НҮҮЧЛҮҮБ! ТҮҮГДЭРГЭСГЭРСҮҮГЭН ҮЗҮҮЛДҮҮГЭ
- о УЗКҮҮ
  - НҮҮБ! ЭДҮҮ ҮЗҮҮЛДҮҮГЭ
  - НҮҮЧЛҮҮ ҮЗҮҮЛДҮҮГЭ

# SQL Managed Instances

Microsoft Azure (Preview) Search resources, services, and docs (G+) Copilot | Microsoft (MICROSOFTONLINE) User icon

Home > SQL managed instances > urmilano-mi-demo-1 SQL managed instance

Start Stop + New database Reset password Delete Feedback

November 2022 feature wave is ready to use for this instance. Click here to learn more.

View Cost | JSON View

**Essentials**

Resource group : urmilano-rg  
Status : Online  
Location : West Europe  
Subscription : DS-Managedinstance-PM\_bonova R&D  
Subscription ID :  
Creation date : 2020-12-02 14:42 (UTC)  
Tags (edit) : Add tags

Managed instance admin : urmila  
Host : urmilano-mi-demo-1.5700069c9050.database.windows.net  
Pricing tier : General Purpose Standard-series (Gen 5) (32 GB, 4 vcores, Zone-redundant backup storage)  
Instance pool : Not in an instance pool  
Virtual network / subnet : vnet-urmilano-mi-demo-1/ManagedInstanceSecondary  
Virtual cluster : VirtualClusterf56289c5-69cf-485c-93b5-8e9c6c823033

**6 Managed Instance databases**

Name	Status	Creation time (UTC)	Earliest restore time (UTC)
testdb2	Online	2020-12-14 15:03	2024-03-08 16:38
testdb3	Online	2020-12-14 16:10	2024-03-08 16:38
testdb4	Online	2020-12-14 16:12	2024-03-08 16:38
testdb5	Online	2020-12-14 16:27	2024-03-08 16:38
testdb6	Online	2020-12-16 15:05	2024-03-08 16:38
WideWorldImporters-Standard	Online	2021-08-05 13:28	2024-03-08 16:38

Showing 1 - 6 of 6 results.

**CPU utilization**

Show data for last: 1 hour 24 hours 7 days

Aggregation type: Avg

**Storage utilization**

Used storage 2 GB Max storage 32 GB 6.5%

Learn more: <https://aka.ms/sqlmi-startstop>

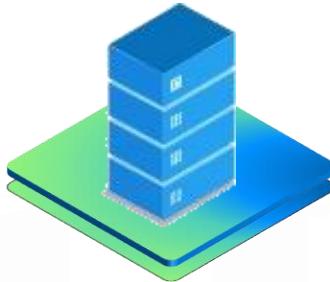
# Optimize your Azure SQL Costs

**Key offers lower your total cost of ownership**



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7G သုမ္ပါန ယုဂ္ဂ



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# ເກົ່າໃຈຈຳລັກສິນ

Azure

Your Estimate +

Contact Sales Try Azure for free

### Your Estimate

Azure SQL Managed Instance Managed Instance, LRS, General Purpose, Single Ins... Upfront: \$0.00 Monthly: \$805.92

#### Azure SQL Managed Instance

Region: East US	Tier: Managed Instance	Backup Storage Tier: LRS	Service Tier: General Purpose
Instance Type: Single Instance	Hardware Type: Premium-series	Instance: 4 vCore	DISASTER RECOVERY: Primary Instance

#### Savings Options

Save up to 73% on pay as you go prices with 1 year or 3 year reserved options.

<b>Compute</b> <input checked="" type="radio"/> Pay as you go	<b>SQL License</b> <input checked="" type="radio"/> Pay as you go <input type="radio"/> Azure Hybrid Benefit <input type="radio"/> Failover rights, standby replica		
<b>Reserved instances</b> <input type="radio"/> 1 year reserved <input type="radio"/> 3 year reserved	\$513.92 Average per month (\$0.00 charged upfront)	\$291.90 Average per month (\$0.00 charged upfront)	= \$805.82 Average per month (\$0.00 charged upfront)

1 X 1 Month

Learn more <https://azure.microsoft.com/en-gb/pricing/calculator/>

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Learn more: [aka.ms/sqlmi-pools](http://aka.ms/sqlmi-pools)

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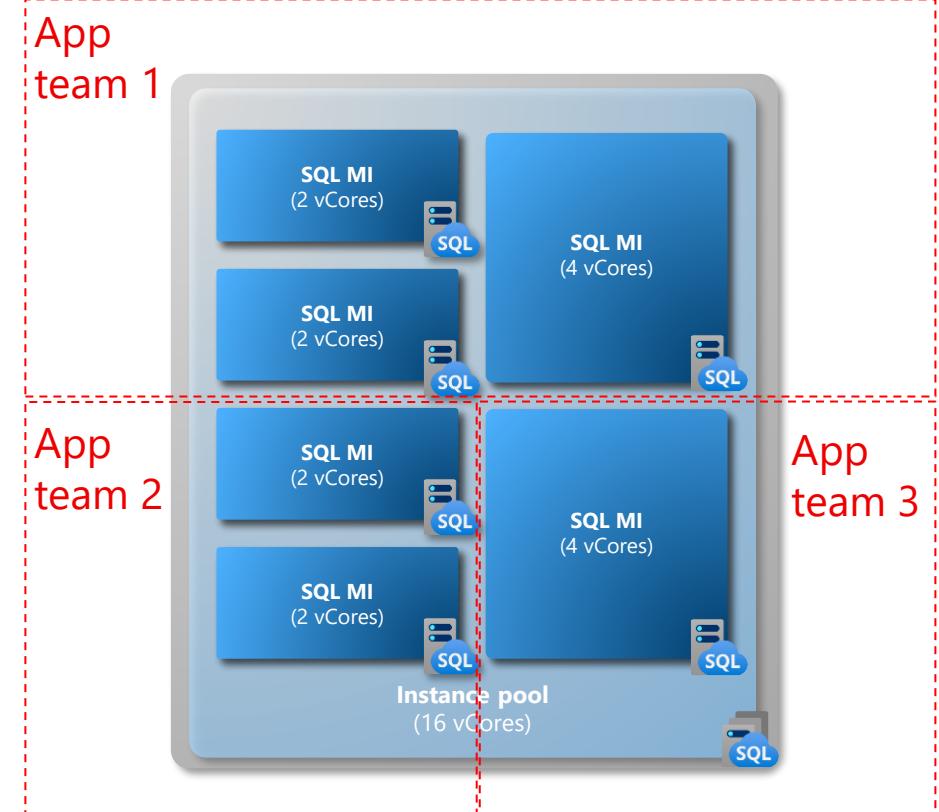
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Learn more: [aka.ms/sqlmi-pools](http://aka.ms/sqlmi-pools)

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# 4JDY ÜDGħibŷ ŦEĞġi

The screenshot shows the Microsoft Azure portal homepage. At the top, there's a navigation bar with icons for Home, Back, Forward, Refresh, and a search bar labeled "Search resources, services, and docs (G+)". Below the search bar is a Copilot button and a user profile section for "MICROSOFT (MICROSOFT.ONMI...)".

The main content area is titled "Azure services" and features a row of icons for creating a resource, Instance pools, Azure SQL, SQL managed instances, Resource groups, Subscriptions, Quickstart Center, Azure AI services, Kubernetes services, and a "More services" button.

Below this is a section titled "Resources" with tabs for "Recent" (which is selected) and "Favorite". The "Recent" table lists the following resources:

Name	Type	Last Viewed
demo-sqlmi-1	SQL managed instance	3 months ago
demo-rg-1	Resource group	3 months ago
sqldb-demo-srv1	SQL server	3 months ago
sqdb-01	SQL database	3 months ago
sqlfog-demo-rg	Resource group	3 months ago
sqdb-02	SQL database	3 months ago
sqlmimsdct-prpr-30	SQL managed instance	12 months ago

Learn more: <https://aka.ms/sqlmi-pools>

9. Г҃ В̄ О̄ Г̄! 3 Г̄ Г̄ „ ! Г̄ б̄ б̄ Ъ Г̄ 9 ³ Ӯ О̄ Г̄ ! 4 Ъ Д̄ Ъ Г̄ Ӯ Г̄ б̄ Г̄ Г̄

+GĐY ẾT ĐÔNG VỚI ỐNG BẮT ĐẬM ³ ƯỜNG ƯẾ! ĐÓ ² d² ʌ! UBÚAÝS G² YGDY/DY VỚI ỐNG YGDÝS ỦÝ ÝQI

5x		2x		
500 user databases	Improved storage perf.	Increased max storage size	vCore flexibility	IOPS flexibility
5x lower cost per DB compared to GP and BC	2x max data IOPS 3x max log rate/db (60% / instance) 2x better latency Max data throughput <b>1200MB/s</b>	32 TB max storage size	Better match Azure SQL VM sizes  Now you can choose 2, 6, 4, 8, 10, 12, 16, 20... 128 vCores	Slider for adding more IOPS to your instance.

7G մին կա՞Տան ՞ Ա՞ն Դս ա՞ւցց Ա՞յլ պա՞ր

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→ 3-5X Better Performance

both for OLTP and analytical workloads

## → 5X Better Price

per database(database density)

→ 2X Larger Storage Scale

→ 2X Improved vCore Flexibility

## → 3X Improved Log Rate Performance

per database

# 1. Մասնակիություն

## 1. Համարակալված պատճենահանուղություն

Home > SQL managed instances > midocssample

midocssample | Compute + storage

Search Feedback

Overview Activity log Access control (IAM) Tags Diagnose and solve problems Quick start November 2022 feature wave

Compute + storage

Service tier

Select from the latest vCore service tiers available for Azure SQL Managed Instance including General Purpose and Business Critical. [Learn more](#)

Service tier

General Purpose (4-80 vCores, 32 GB-16 TB storage capacity, Fast storage) - for most production workloads

Business Critical (4-80 vCores, 32 GB-4 TB storage capacity, Super fast storage) - for IO-intensive and compute-intensive workloads

Next-gen General Purpose (preview)

Enabled  Disabled

Seamless and automatic upgrade for the existing MI GP instances with **no change in price**

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## Service tier

Select from the latest vCore service tiers available for Azure SQL Managed Instance including General Purpose and Business Critical. [Learn more](#)

## Service tier ①

- General Purpose (4-128 vCores, 32 GB-32 TB storage capacity, Fast storage) - for most production workloads
  - Business Critical (4-128 vCores, 32 GB-16 TB storage capacity, Super fast storage) - for IO-intensive and compute-intensive workloads

Next-gen General Purpose (preview)

**Enabled**   **Disabled**

**i** Next-gen General Purpose tier is currently in preview. By using this set of preview features, you confirm that you agree that your use of these features is subject to the preview terms in the agreement under which you obtained Microsoft Azure Services. [Learn more](#)

## Compute Hardware

Configure compute hardware that will run your Azure SQL Managed Instance. [Learn more](#)

#### Hardware generation ①

- Standard-series (Gen 5) - Intel Broadwell, 5,1 GB RAM/vCore
  - Premium-series - Intel Ice Lake, 7 GB RAM/vCore, up to 560 GB
  - Premium-series - memory optimized - Intel Ice Lake, 13,6 GB RAM/vCore, up to 870,4 GB

vCores (1)



Storage in GB ⓘ



IOPS ①

# TŚČБДУĀу ўЕГ

Next gen GP is not a new service tier!

Next-gen GP has the same base price as current GP!

ГЕГ	3 G	9 ГЕГ
3 ГД	Н у ГД/	Н у ГД/
Ну Г	Н у ГД/	Н у ГД/
7 ГД	Н у ГД/	Н у ГД/
4ДУЕГ!4GN	3ГГy!Д Г	3ГГy!Д Г
" ЕЕкү"!4GN	9 "	+ \$ 0.038



Additional IOPS price = Storage price / 3

Example: East US

- Additional storage price => \$0.115/GB/month
- Additional IOPS price => \$0.038/IOPS/month

# 1 Ü dĕGN 7!9 43 GÚq YÓÓÚ

Home > ciperf-gen8-gp4-weu-00

## ciperf-gen8-gp4-weu-00 | Compute + storage

SQL managed instance

Search

Feedback

Overview

Activity log

Access control (IAM)

Tags

Diagnose and solve problems

Quick start

November 2022 feature wave

Service tier

Select from the latest vCore service tiers available for Azure SQL Managed Instance including General Purpose and Business Critical. [Learn more](#)

Service tier

General Purpose (4-64 vCores, 32 GB-16 TB storage capacity, Fast storage) - for most production workloads

Business Critical (4-128 vCores, 32 GB-16 TB storage capacity, Super fast storage) - for IO-intensive and compute-intensive workloads

Next-gen General Purpose (preview)

Enabled [Disabled](#)

Next-gen General Purpose tier is currently in preview. By using this set of preview features, you confirm that your use of these features is subject to the preview terms in the agreement under which you obtained Microsoft Azure Services. [Learn more](#)

Compute Hardware

Configure compute hardware that will run your Azure SQL Managed Instance. [Learn more](#)

Hardware generation

Standard-series (Gen 5) - Intel Broadwell, 5.1 GB RAM/vCore

Premium-series - Intel Ice Lake, 7 GB RAM/vCore, up to 560 GB

Premium-series - memory optimized - Intel Ice Lake, 13.6 GB RAM/vCore, up to 870.4 GB

vCores

Storage in GB

Zone redundancy

Enabled [Disabled](#)

Zone Redundancy is not yet supported in Next-gen General Purpose tier. [Learn more](#)

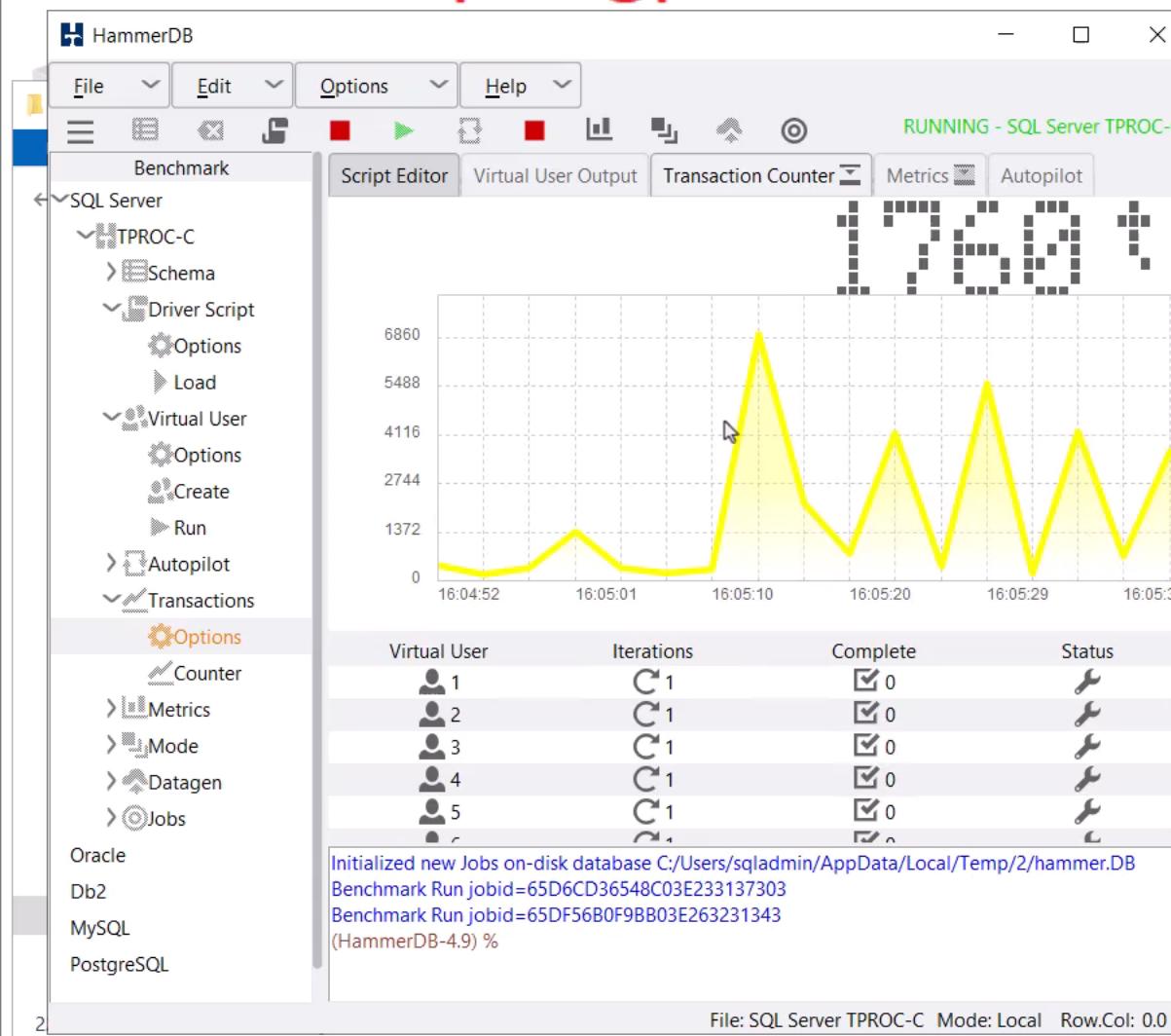
All zone redundancy requirements

Zone redundancy for General Purpose service tier is currently in preview.

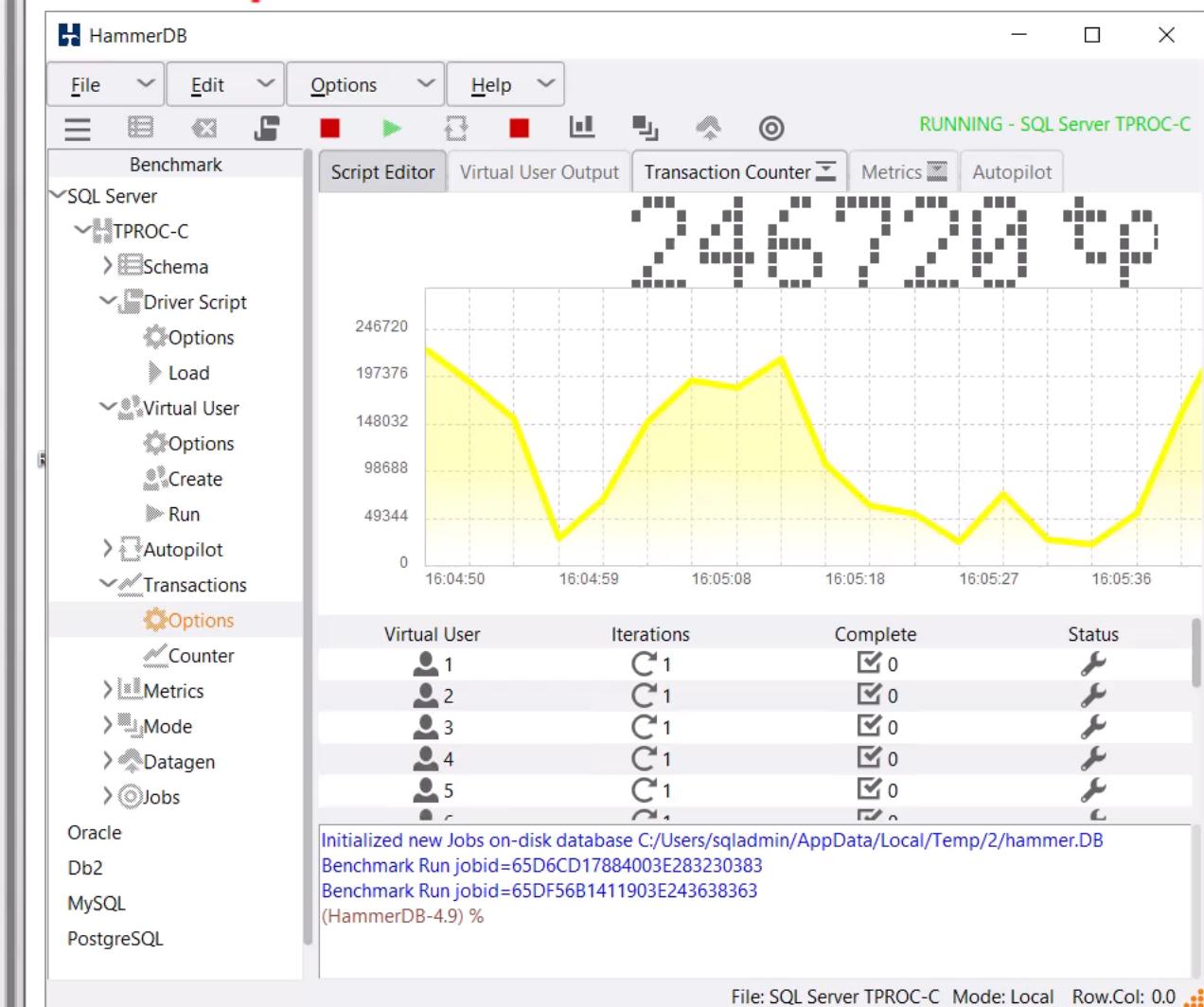
Apply Cancel

Learn more: <https://aka.ms/sqlmi-nextgp>

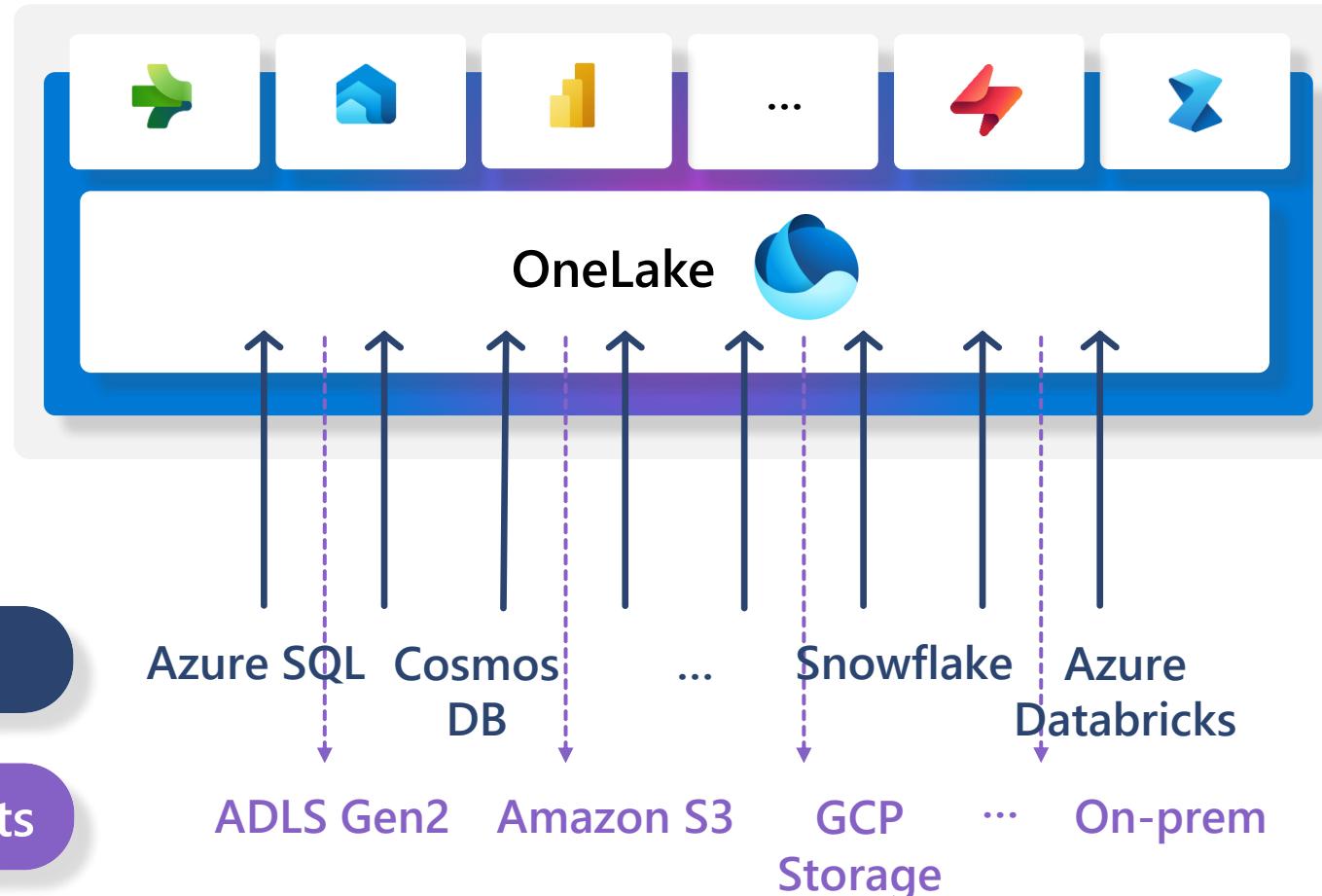
# bwazuresqlmigp - GP v1



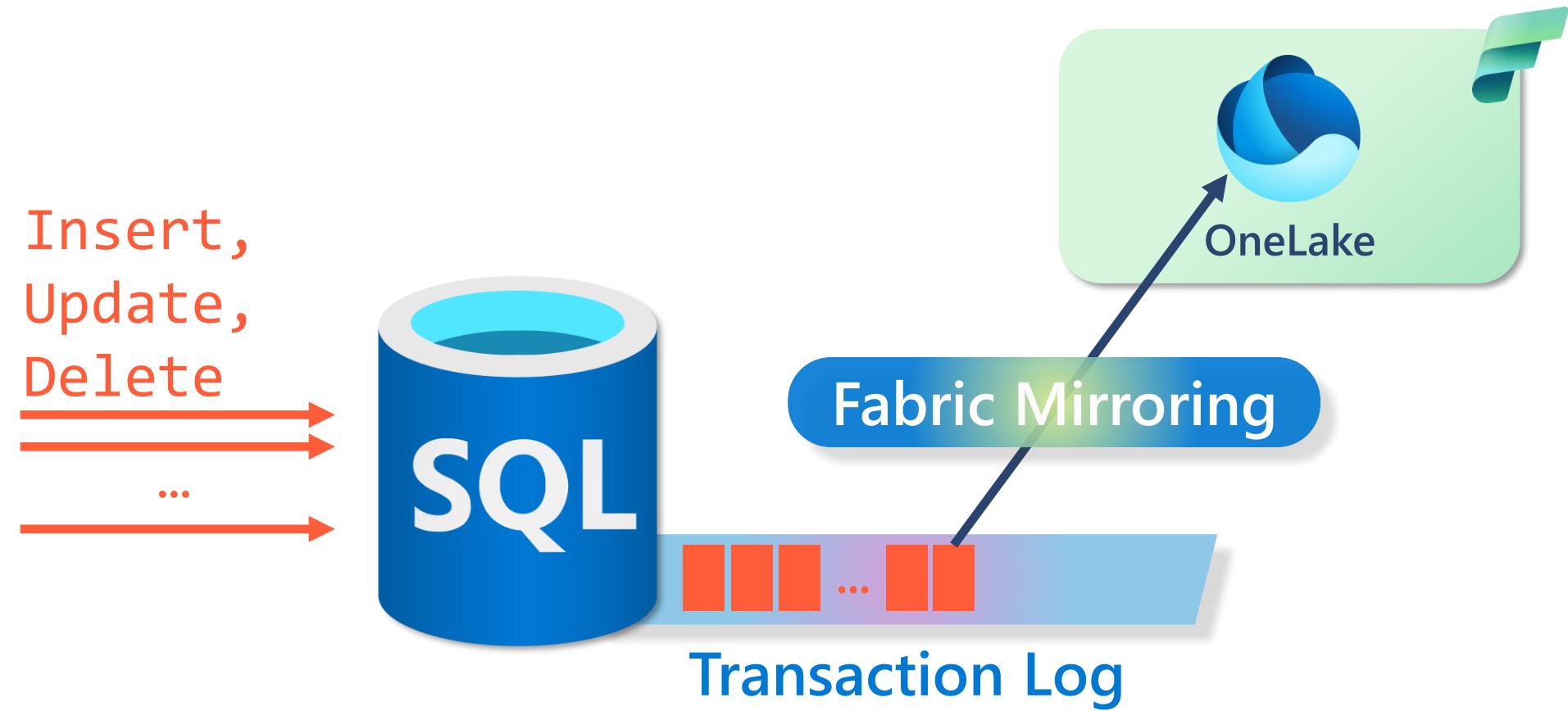
# bwsqalmihermes - GP v2



# ဒုတက္ကသန ပုဂ္ဂနည်



# N 7!9 43 dCE9 ~CYCÚÓ



N 7!9 43° dCE9 °xyjÚAĚGü ÿ

Microsoft | Fabric azuresqlfabricdemo

Search

14

Home Workspaces OneLake Monitor Real-Time Workloads azuresqlfabricdemo ... Fabric

azuresqlfabricdemo

+ New item New folder Import

Filter by keyword Filter Workspace settings

Create app Manage access

Choose from predesigned task flows or add a task to build one (preview)

Select from one of Microsoft's predesigned task flows or add a task to start building one yourself.

There's nothing here yet

The screenshot shows the Microsoft Fabric workspace interface. The left sidebar lists various services: Home, Workspaces, OneLake, Monitor, Real-Time, Workloads, and the current workspace, azuresqlfabricdemo. Below the workspace name is a navigation bar with '+ New item', 'New folder', and 'Import' buttons. To the right are search and filter tools, along with 'Create app', 'Manage access', and 'Workspace settings' buttons. The main area features a large circular icon with overlapping documents and a plus sign, followed by the text 'Choose from predesigned task flows or add a task to build one (preview)'. Below this, another circular icon contains a paperclip, with the text 'Select from one of Microsoft's predesigned task flows or add a task to start building one yourself.' At the bottom, a message says 'There's nothing here yet'. The top right corner shows a user profile picture.

N 7!9 43° dCE9 °xyjÚAĚGü ŷ

Microsoft | Fabric azuresqlfabricdemo Search

14

Home Workspaces OneLake Monitor Real-Time Workloads azuresqlfabricdemo Create deployment pipeline Create app Manage access Workspace settings

+ New item New folder Import Filter by keyword Filter

Choose from predefined task flows or add a task to build one (preview)

Select from one of Microsoft's predefined task flows or add a task to start building one yourself.

Name	Type	Task	Owner	Refreshed	Next refresh	Endorsements	Sensitivity	Included in app
SalesLT-2024	Mirrored ...	—	Sasa Pop...	—	—	—	Confiden...	①
SalesLT-2024	Semantic ...	—	azuresqlfa...	12/4/2024, ...	N/A	—	Confiden...	①
SalesLT-2024	SQL analy...	—	Sasa Pop...	—	—	—	—	—

SalesLT-2024 ... Fabric

# N 7!9 43° dČE9 ° ČyčÚáĚGú ŷ

The screenshot shows the Microsoft SQL Server Management Studio (SSMS) interface. The title bar indicates the connection is to `nzagorac1.public.f66823ecb436.database.windows.net,3342.SalesLT-2024` under user `(nzagorac (91))*`. The main window contains a query editor with the following SQL code:

```
insert into SalesLT.SalesOrderDetail values (
    4, 743, 809.76, 3239.040000, 0.50, '1DB92279-D76A-4868-9A47-856EC58093AB', '2024-12-24 23:00:00.000', 'Q4')

SELECT TOP 10 * FROM SalesLT.SalesOrderDetail ORDER BY UnitPriceDiscount DESC

-- DELETE FROM SalesLT.SalesOrderDetail WHERE SalesOrderID = 4 AND UnitPriceDiscount = 0.5
```

The results pane shows the message `(1 row affected)` and the completion time `Completion time: 2024-12-04T04:48:53.2563402+01:00`. The status bar at the bottom right shows `nzagorac1.public.f66823ecb4... nzagorac (91) | SalesLT-2024 | 00:00:00 | 0 rows`.

N 7!9 43° dCE9 °xyčÚAĚGü ŷ

The screenshot shows the Microsoft Power BI interface, specifically the SQL query editor. The top navigation bar includes the Microsoft logo, the workspace name "SalesLT-2024", a lock icon, and the text "Confidential Microsoft Extended". A search bar and a notification badge (15) are also present. The left sidebar has a "Reporting" tab selected, along with icons for Home, Workspaces, OneLake, Monitor, Real-Time, Workloads, and Fabric. The main area features an "Explorer" pane on the left with a tree view of databases and tables, and a "SQL query 1" editor on the right. The editor contains a query to select the top 10 rows from the SalesLT.SalesOrderDetail table, ordered by UnitPriceDiscount in descending order. The results pane shows the query output with 10 rows of data.

Microsoft | SalesLT-2024 | Confidential Microsoft Extended | Search | 15 | ... | SQL analytics endpoint

Home Reporting

New report | New semantic model | Manage default semantic model | Automatically update semantic model

This SQL analytics endpoint has a default Power BI semantic model. To automatically add objects, go to SQL analytics endpoint settings. To manually add objects, use Manage default semantic model. [Learn more](#)

SQL query 1

Run | Save as view | Explain query | Fix query errors

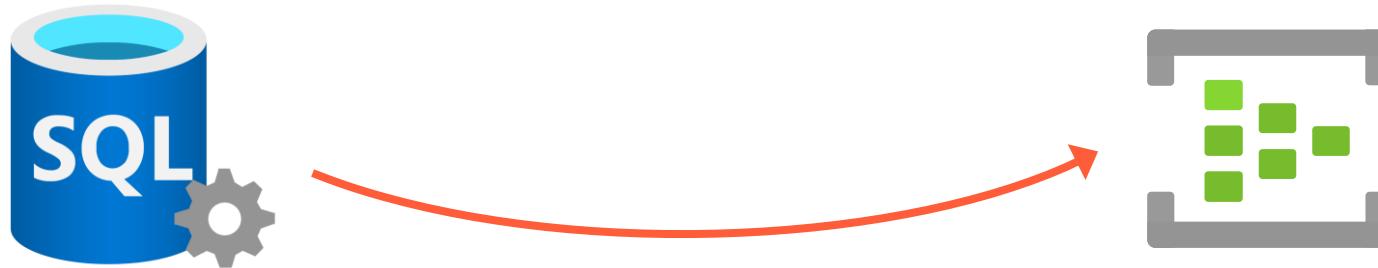
1 `SELECT TOP 10 * FROM SalesLT.SalesOrderDetail ORDER BY UnitPriceDiscount DESC`

	123 SalesOrd...	123 SalesOrd...	123 OrderQty	123 ProductID	12 UnitPrice...	12 UnitPrice...	ABC rowguid	ABC Modified...	ABC SalesQu...
1	4	113413	743	809	3239.0400	0.5000	1db92279-d7...	2024-12-24 2...	Q4
2	71780	110618	6	988	112.9980	0.4000	12706fab-f3a...	2024-09-05 0...	Q3
3	71780	110633	2	984	112.9980	0.4000	27562675-f8c...	2024-01-29 0...	Q1
4	71780	110628	1	985	112.9980	0.4000	2c10a282-a13...	2024-08-11 0...	Q3
5	71832	111813	3	984	112.9980	0.4000	f8d67ec8-224...	2024-12-30 0...	Q4
6	71780	110634	3	986	112.9980	0.4000	e193ce39-ef3...	2024-03-04 0...	Q1

Succeeded (2 sec 204 ms) | Columns: 9 Rows: 10

# What is Change event streaming (CES)?

Change Event Streaming is a feature that enables you to stream your data changes **from SQL directly into Azure Event Hubs**.



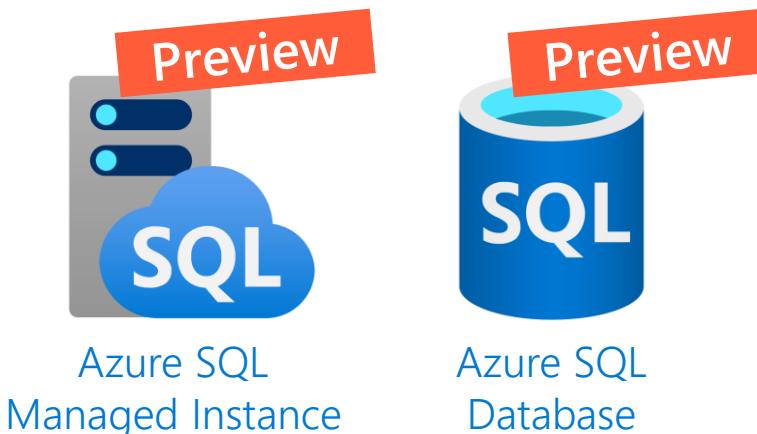
CES streams data changes from a group of **tables** in a **database** to a configured Azure Event Hubs destination.

CES offers **near real-time** streaming of data changes.

# Hero scenarios for CES

- Building **event-driven systems** on top of your relational databases, with minimal overhead and easy data integration.
- **Breaking up monolith** applications.
- **Data synchronization** across systems, and more specifically, syncing data between **microservices** or keeping distributed systems in sync.
- Implementing near **real-time analytics** on top of your relational data.
- **Auditing and monitoring** that requires tracking changes of sensitive data or logging specific events.

- Currently in **private preview** for SQL DB, SQL MI.
- To apply for SQL DB and SQL MI preview: [aka.ms/sql-ces-signup](http://aka.ms/sql-ces-signup)
- Any questions – email [sqlcesfeedback@microsoft.com](mailto:sqlcesfeedback@microsoft.com)



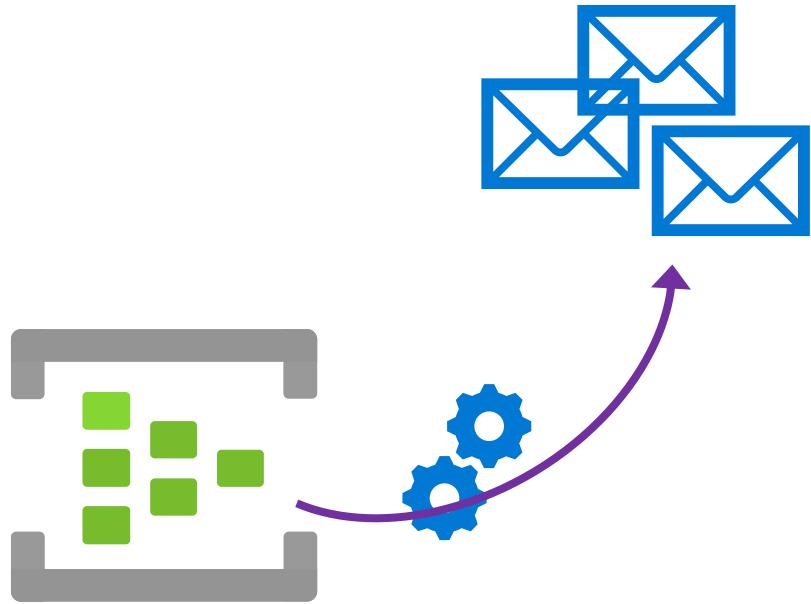
# Demo



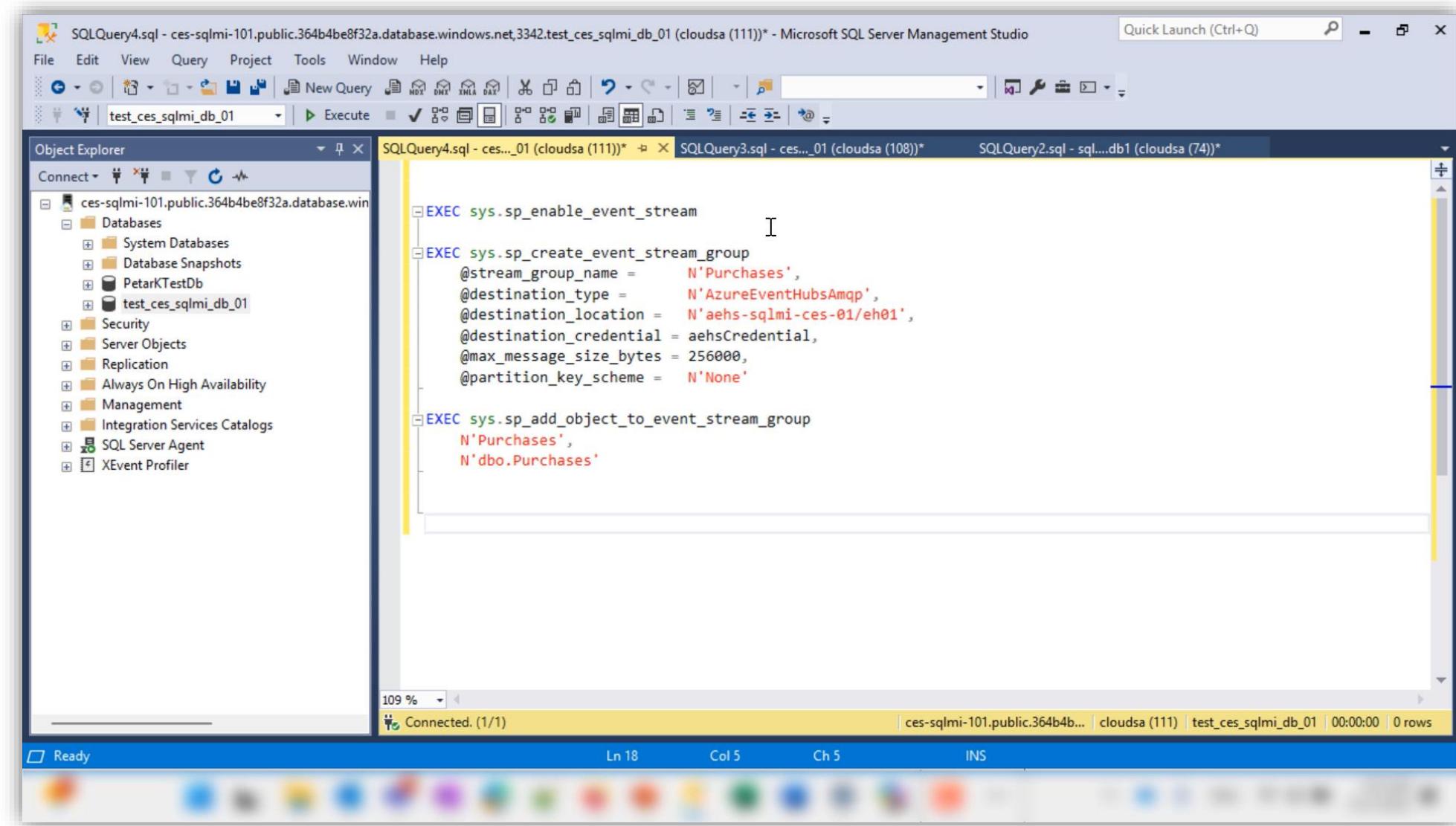
Let's send discount coupons for  
bike helmets to everyone who  
buys a bicycle in May 2025!

CES

Table: Orders



# CES demo



The screenshot shows the Microsoft SQL Server Management Studio (SSMS) interface. The title bar indicates the connection is to `ces-sqlmi-101.public.364b4be8f32a.database.windows.net,3342.test_ces_sqlmi_db_01 (cloudsa (111))*`. The Object Explorer on the left shows the database structure, including the `test_ces_sqlmi_db_01` database. The main query editor window contains the following T-SQL script:

```
EXEC sys.sp_enable_event_stream
EXEC sys.sp_create_event_stream_group
    @stream_group_name =      N'Purchases',
    @destination_type =       N'AzureEventHubsAmqp',
    @destination_location =   N'aehs-sqlmi-ces-01/eh01',
    @destination Credential = aehsCredential,
    @max_message_size_bytes = 256000,
    @partition_key_scheme =   N'None'
EXEC sys.sp_add_object_to_event_stream_group
    N'Purchases',
    N'dbo.Purchases'
```

The status bar at the bottom shows the connection is `Connected. (1/1)`, the session is `ces-sqlmi-101.public.364b4b...`, the database is `test_ces_sqlmi_db_01`, and there are `0 rows` affected.

Learn more: <https://aka.ms/sql-ces>

# CES demo

The screenshot displays two windows side-by-side. On the left is the Microsoft Azure Data Explorer interface for the Event Hubs instance 'eh01 (aehs-sqlmi-ces-01/eh01)'. It shows a table of events with columns: Sequence Number, Offset, Partition ID, and End-to-end ID. The first few rows of data are:

Sequence Number	Offset	Partition ID	End-to-end ID
7	4294967296	0	Suri...
8	4294969328	0	Suri...
9	4294971360	0	Suri...
10	4294973392	0	Suri...
11	4294975424	0	Suri...

The 'Event body' tab is selected, showing the raw JSON data for the 11th event. The 'Event properties' tab is also visible at the bottom. On the right is a Windows PowerShell window showing the raw JSON data for the same event, which includes fields like time, datacontenttype, operation, and data. The PowerShell window also shows a message about skipping already processed purchase\_id: 15.

```
"time": "2025-05-11T01:45:07.713Z",
"datacontenttype": "application\\avro-json",
"operation": "INS",
"splitindex": 0,
"splittotalcnt": 0,
"data": "{\n  \"eventsources\": {\n    \"db\": \"test_ces_sqlmi_db_01\", \n    \"schema\": \"dbo\", \n    \"tbl\": \"Purchases\", \n    \"cols\": [\n      {\n        \"name\": \"purchase_id\", \n        \"type\": \"int\", \n        \"index\": 0\n      }, \n      {\n        \"name\": \"customer_name\", \n        \"type\": \"varchar(100)\", \n        \"index\": 1\n      }, \n      {\n        \"name\": \"product_id\", \n        \"type\": \"int\", \n        \"index\": 2\n      }, \n      {\n        \"name\": \"product_name\", \n        \"type\": \"varchar(100)\", \n        \"index\": 3\n      }, \n      {\n        \"name\": \"price_per_item\", \n        \"type\": \"int\", \n        \"index\": 4\n      }, \n      {\n        \"name\": \"quantity\", \n        \"type\": \"int\", \n        \"index\": 5\n      }, \n      {\n        \"name\": \"purchase_date\", \n        \"type\": \"datetime\", \n        \"index\": 6\n      }, \n      {\n        \"name\": \"payment_method\", \n        \"type\": \"varchar(50)\", \n        \"index\": 7\n      }\n    ], \n    \"pkkey\": [\n      {\n        \"columnname\": \"purchase_id\", \n        \"value\": \"15\"\n      }\n    ]\n  }, \n  \"eventrow\": {\n    \"old\": {}, \n    \"current\": {\n      \"purchase_id\": \"15\", \n      \"customer_name\": \"Mark\", \n      \"product_id\": \"127\", \n      \"product_name\": \"Bicycle\", \n      \"price_per_item\": \"111\", \n      \"quantity\": \"1\", \n      \"purchase_date\": \"2025-05-11 01:45:07.713\", \n      \"payment_method\": \"Cache\"\n    }\n  }\n}
```

Skipping already processed purchase\_id: 15

Learn more: <https://aka.ms/sql-ces>

# Join the preview today!



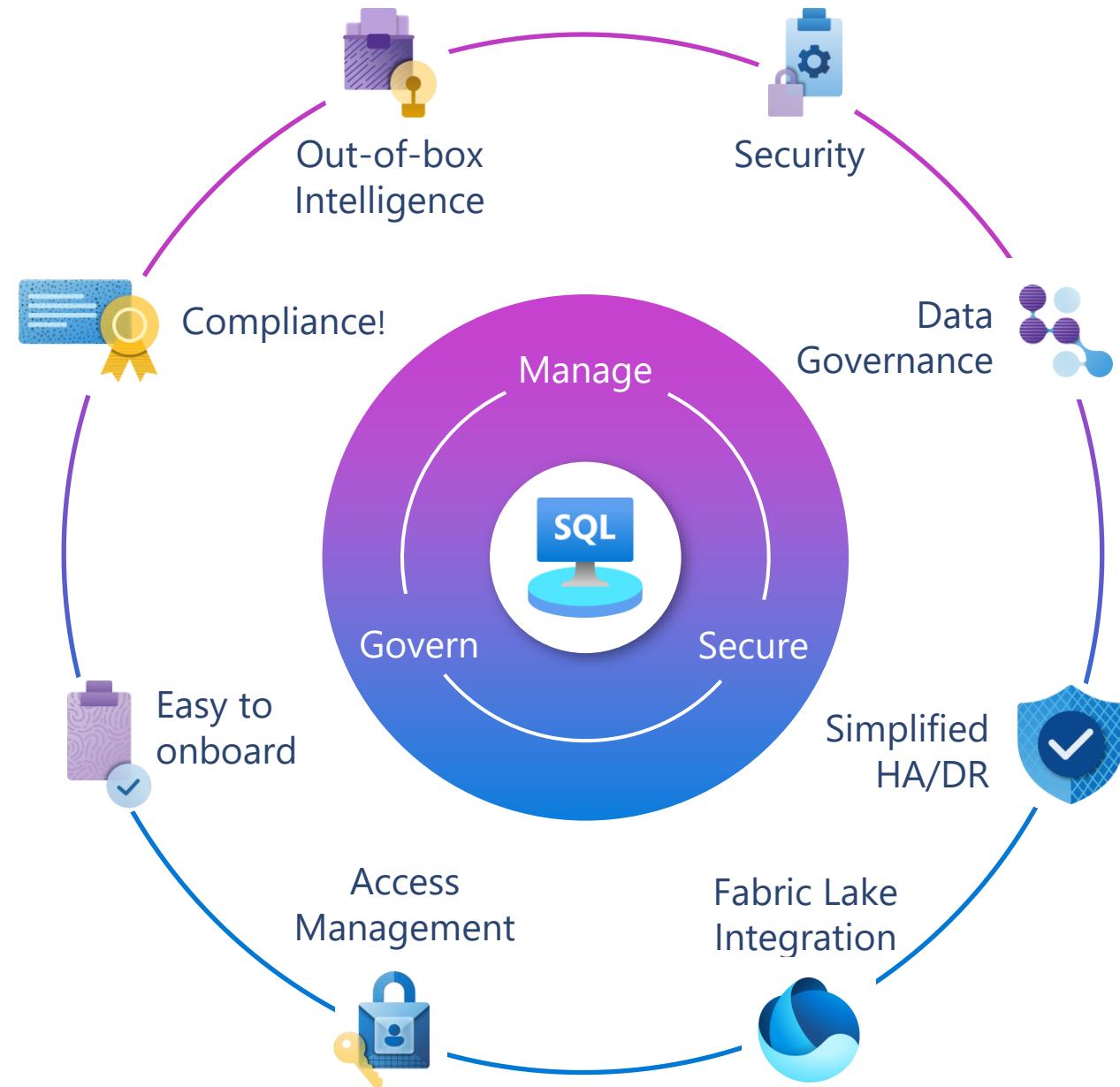
[aka.ms/sql-ces-signup](http://aka.ms/sql-ces-signup)



## Azure Arc extends Azure services to SQL Server anywhere

Streamline migration journey to Azure, effectively manage SQL estate at scale and strengthen security and governance posture

Cloud innovation. Anywhere.



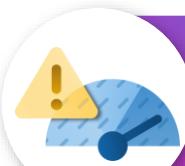
# Bring cloud manageability to SQL Server anywhere

9<sup>3</sup> ပဲ ထွေ! ဖူဇုန်! ပြော! ပျော်မျှ။ ယုဟန 7! အောင် ခြော်များများ !" အောင်



## Manage SQL estate with better observability

- ነሽናይኝ ቤት ስለምንም የሚከተሉትን ደንብ በመሆኑ የሚያስፈልግ ይችላል
  - + የኩረት የሚያስፈልግ የሚከተሉትን ደንብ በመሆኑ የሚያስፈልግ ይችላል
  - ፩ የኩረት የሚያስፈልግ የሚከተሉትን ደንብ በመሆኑ የሚያስፈልግ ይችላል
  - ፪ የኩረት የሚያስፈልግ የሚከተሉትን ደንብ በመሆኑ የሚያስፈልግ ይችላል
  - ዘመን የሚያስፈልግ የሚከተሉትን ደንብ በመሆኑ የሚያስፈልግ ይችላል



## Enhance business continuity



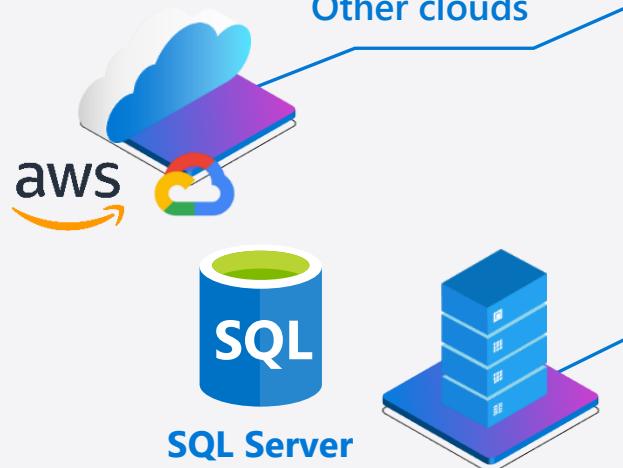
# Govern and protect SQL estate using Azure



, Č! " ČAGÚ d'ČE! ū Č kŷ ÜD

**New migration path in addition to the existing Data Migration Service (DMS) for SQL Servers using Arc. Seamless unified experience.**

"!Ę́ń ńęćk ę́ńdż ę́ńę́! ę́ń! ę́ńę́! n̄' ő̄ k̄ȳń!  
ę́ń ńęćk ę́ńdż! ę́ńdż ę́ńdż! ę́ńdż ę́ńdż! ę́ńdż ę́ńdż!  
ę́ńdż ę́ńdż! ę́ńdż ę́ńdż! ę́ńdż ę́ńdż! ę́ńdż ę́ńdż!



## On-premises workloads

# SQL Server



# Arc enabled migrations



# Azure SQL Managed Instance



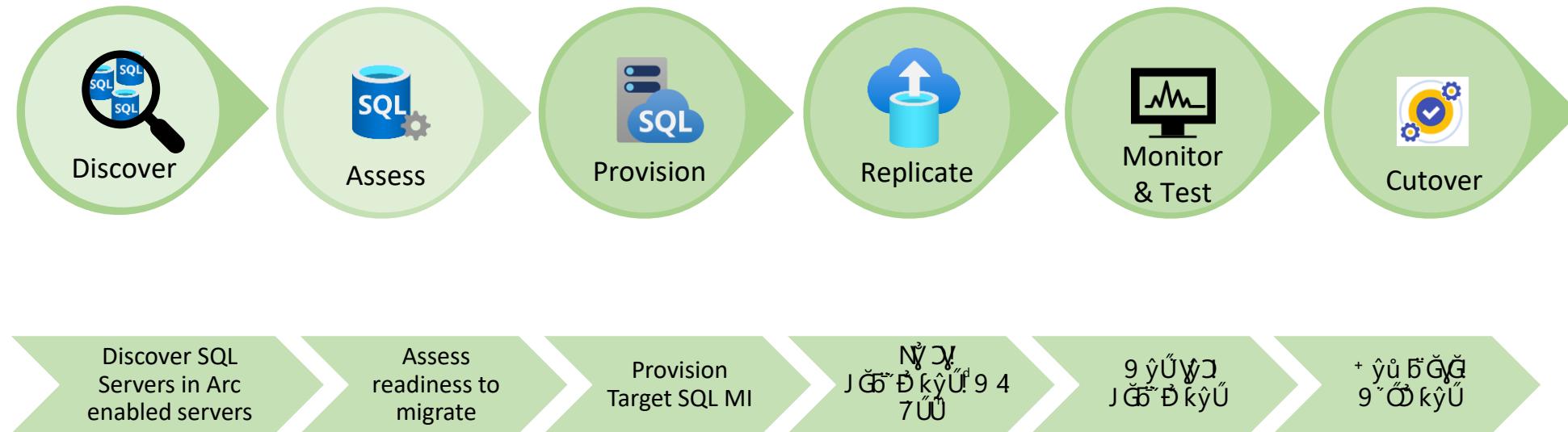
# SQL Server on Azure Virtual Machines



# Azure SQL Database

+ յն ԵՇՎՇ! ? Մյն ՞ ՎՃԱՐԵ Վ Ճ ՇԵՆ Ո ԿՅՒ  
ԵՎՇՎ ՍԵ! ԵՆ Վ ՎՃՎՇՎ Ո ԿՅՒ ԵՎՇՎ ԵՎ Վ  
ՃՎՇՎ ՎՃՎՇՎ

# Нүүцэлдэх SQL Server Migrator



# XÚJ ČE!" ČU" Ž kýÚDĚČU ÿ

The screenshot shows the Azure portal interface for managing a SQL Server instance named **MDCSSQL-EVGUTK1**, which is connected via Azure Arc. The left sidebar contains navigation links for Home, Overview, Activity log, Access control (IAM), Diagnose and solve problems, Resource visualizer, Settings, Security, Data management, Monitoring, Migration (with sub-options for Migration Journey (preview) and Automation), Help, and Tags.

The main content area displays the **Overview** page. At the top, there is a message: "Check to see if your SQL Server instance is ready to migrate to Azure SQL in the [migration assessment](#)". Below this, the **Essentials** section provides key details about the instance:

Setting	Value
Resource group	<a href="#">ivankostic-rg</a>
SQL Server instance type	Stand-alone instance
Mode	Connected
Service Type	SQL Server Database Engine
Location	<a href="#">centraluseuap</a>
Version	SQL Server 2022
Subscription	<a href="#">ADS TINA Engineering</a>
Edition	Developer
Computer name	<a href="#">MDCSSQL-EVGUTK1</a>
Operating system	Windows
Migration Journey upload	11/4/2024, 13:57:09 UTC
Usage upload	N/A

At the bottom of the essentials section, there are links for [View Cost](#) and [JSON View](#). The bottom right corner of the page has a small cursor icon pointing towards the page edge.

+ ŷb”ŷv!G bšGšEGšÚxú! Gš!" žu”škýÚDšGš ý

The screenshot shows the Microsoft Azure portal's Overview page for a SQL Server instance named **MDCSSQL-EVGUTK1**. The instance is connected to the Azure Arc service.

**Essentials:**

- Resource group: [ivankostic-rg](#)
- Mode: Connected
- Location: [eastus2euap](#)
- Subscription: [ADS TINA Engineering](#)
- Subscription ID: a5082b19-8a6e-4bc5-8ffd-8ef39dfbc39

**SQL Server instance type:** Stand-alone instance

**Properties:**

- Service Type: SQL Server Database Engine
- Version: SQL Server 2022
- Edition: Developer
- Computer name: [MDCSSQL-EVGUTK1](#)
- Operating system: Windows
- Inventory upload: 06/03/2025, 14:31:44 UTC
- Usage upload: N/A

**SQL Server configuration:**

License type	Configuration needed
ESU subscription	N/A
Automated updates	Disabled

**Azure extension for SQL Server:**

Version	1.1.2914.231
Provisioning state	Succeeded
Enable automatic upgrade	false
DPS upload status	OK
DPS upload status message	N/A
Metrics upload status	OK
Metrics upload status message	Upload succeeded.
Status last updated	03/03/2025, 13:20:18 UTC

**Azure Connected Machine agent:**

Agent status	Connected
--------------	-----------

**Automatic backups configuration:**

Status	Disabled
--------	----------

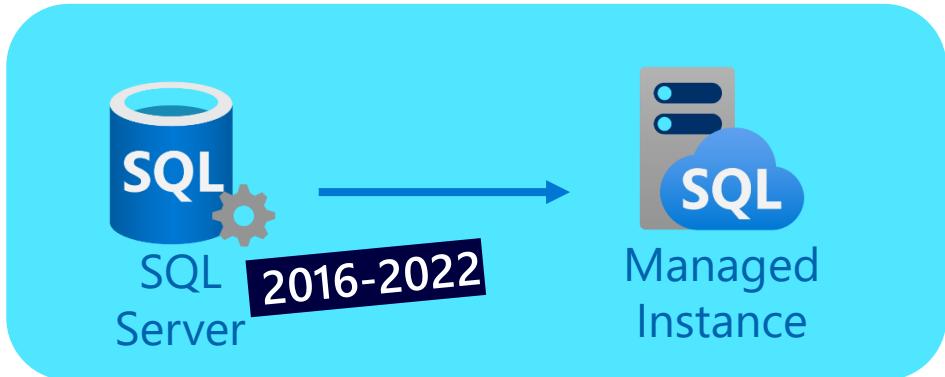
**Recommendation Survey:**

How likely are you to recommend SQL Server enabled by Azure Arc to a friend or a colleague?

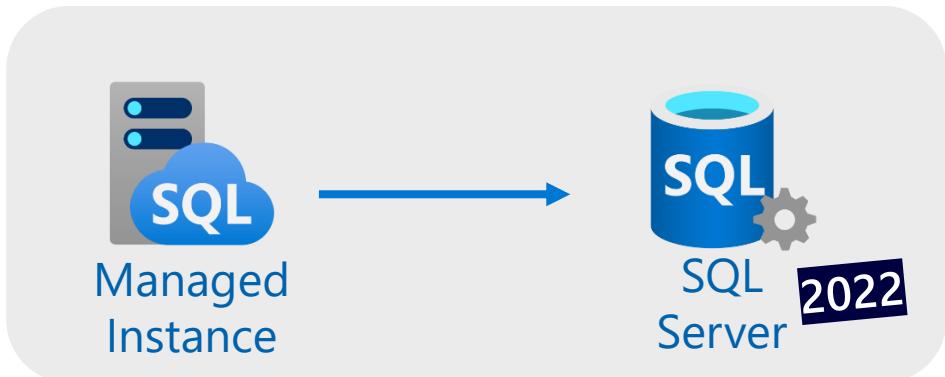
0 1 2 3 4 5 6 7 8 9 10

Very unlikely      Very likely

# 9 4. ŪŪĪG YUDČ! E B d' kGD' ŪĒ! DUBBÝXĚ! DGÚ ČýD



- Database mobility to Azure
  - R/O replica in Azure
  - Read scale-out in Azure
  - Migration to Azure

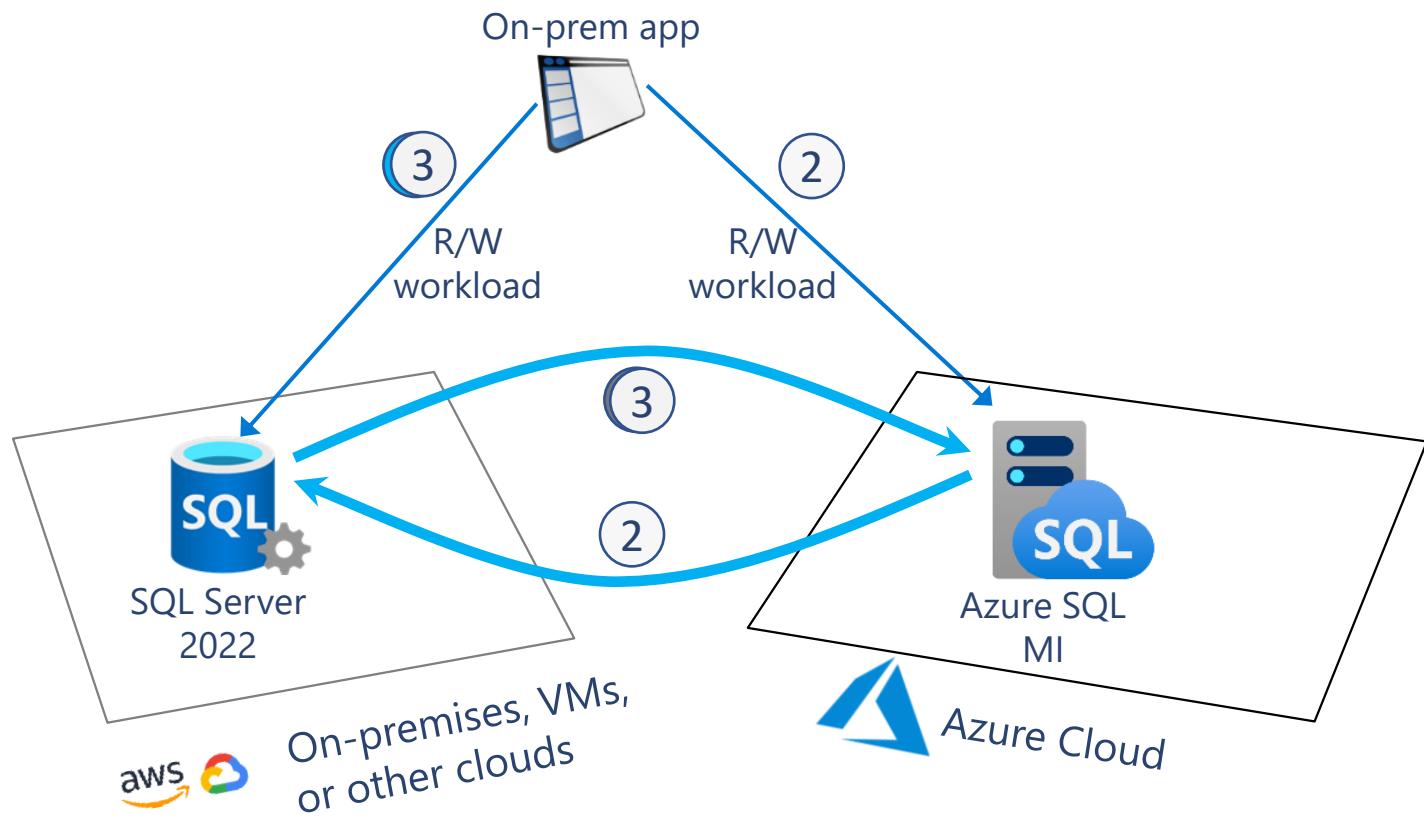


- Off-cloud database mobility
  - Reverse migration
  - Regulatory drills
- MI database copy to SQL Server



- Disaster Recovery (including DR drill)

# 0³ Ž!9 ŷd̄'v!UDÚÁ" džDGN 7!9³ Ú ŒGE!4JDY ŚEG



- ① Configure a link to replicate SQL Server DB to Azure.
- ② Failover to Azure. Local link roles are reversed.
- ③ Fallback to SQL Server. The original link roles are restored.

o Čížky

Create Server database replica in Azure

SQLQuery1.sql - wwi-2022-sql.master (wwi-2022-sql\cloudsa (96)) - Microsoft SQL Server Management Studio (Administrator)

File Edit View Query Project Tools Window Help

Quick Launch (Ctrl+Q)

Object Explorer

Connect master New Query

SQLQuery1.sql - wwi-2022-sql\cloudsa (96)\*

--execute on SQL Server

```
--create test DB
use master
create database MILinkTestDb
go

--create test table
use MILinkTestDb
create table MessageTbl
(
    id int identity not null,
    message varchar(max) not null,
    timestamp datetime not null
)
go

--update table content
use MILinkTestDb
declare @sql_message varchar(max);
set @sql_message = 'Written on SQL Server instance ' + @@servername;
insert into MessageTbl values (@sql_message, getutcdate())
go

--show table content
use MILinkTestDb
select * from MessageTbl
go

--enable connections on the secondary replica
use master
alter availability group [AG_MILinkTestDb]
    modify replica on 'wwi-2022-sql' with (secondary_role ( allow_connections ))
go
```

150%

Query executed successfully.

wwi-2022-sql (16.0 RTM) - wwi-2022-sql\cloudsa (96) - master 00:00:00 0 rows

SQLQuery2.sql - ch...tDb (cloudsa (113))\*

--execute on SQL MI

```
--create test DB
use master
create database MILinkTestDb
go

--create test table
use MILinkTestDb
create table MessageTbl
(
    id int identity not null,
    message varchar(max) not null,
    timestamp datetime not null
)
go

--update table content
use MILinkTestDb
declare @sql_message varchar(max);
set @sql_message = 'Written on SQL MI ' + substring(@@servername, 1, charindex('-', @@servername));
insert into MessageTbl values (@sql_message, getutcdate())
go

--show table content
use MILinkTestDb
select * from MessageTbl
go

--initiate planned failover to SQL Server
use master
alter availability group [DAG_MILinkTestDb] failover
go

--initiate forced failover to SQL MI
use master
```

150%

Query executed successfully.

chimera-canary-gp-01.1ef22d91f8c.database.windows.net (SQL Server 12.0.2000.8) - master 00:00:00 1 rows

Ln 19 Col 1 Ch 1 IN5

o Čížků Žížákových

DR drill – Failover to Azure with failback

SQLQuery2.sql - chimera-canary-gp-01.1ef22dd91f8c.database.windows.net.MILinkTestDb (cloudsa (131)) - Microsoft SQL Server Management Studio (Administrator)

File Edit View Query Project Tools Window Help

Quick Launch (Ctrl+Q)

Object Explorer

Connect

SQLQuery1.sql - wwi-2022-sql\cloudsa (74)\*

SQLQuery2.sql - ch...tDb (cloudsa (131))\*

wwi-2022-sql (SQL Server 16.0.4105.2 - wwi-2022-sql\cloudsa)

- Databases
- System Databases
- Database Snapshots
- MILinkTestDb (Synchronized)

Security

Server Objects

Replication

Always On High Availability

- Availability Groups
  - AG\_MILinkTestDb (Primary)
  - DAG\_MILinkTestDb (Distributed)

Management

Integration Services Catalogs

- SQL Server Agent (Agent XPs disabled)

XEvent Profiler

chimera-canary-gp-01.1ef22dd91f8c.database.windows.net (SQL Server 12.0.2000.8)

- Databases
- System Databases
- Database Snapshots
- MILinkTestDb

Security

Server Objects

Replication

Always On High Availability

- Availability Groups
  - DAG\_MILinkTestDb (Distributed)

Management

Integration Services Catalogs

- SQL Server Agent

XEvent Profiler

--update table content

```
use MILinkTestDb
declare @sql_message varchar(max);
set @sql_message = 'Written on SQL Server instance ' + @@servername;
insert into MessageTbl values (@sql_message, getutcdate())
go
```

--show table content

```
use MILinkTestDb
select * from MessageTbl
go
```

--enable connections on the secondary replica

```
use master
alter availability group [AG_MILinkTestDb]
    modify replica on 'wwi-2022-sql' with (secondary_role ( allow_connections = 1))
go
```

--change the local link role to 'secondary'

```
use master
alter availability group [DAG_MILinkTestDb]
    set (role = secondary)
go
```

--initiate planned failover to MI

```
use master
alter availability group [DAG_MILinkTestDb] failover
go
```

--initiate forced failover to SQL Server

```
use master
alter availability group [DAG_MILinkTestDb] force_failover_allow_data_loss
go
```

--update table content

```
use MILinkTestDb
declare @sql_message varchar(max);
set @sql_message = 'Written on SQL MI ' + substring(@@servername, 1, charindex('.', @@servername) - 1) + ' - ' + @@servername;
insert into MessageTbl values (@sql_message, getutcdate())
go
```

--show table content

```
use MILinkTestDb
select * from MessageTbl
go
```

--initiate planned failover to SQL Server

```
use master
alter availability group [DAG_MILinkTestDb] failover
go
```

--initiate forced failover to SQL MI

```
use master
alter availability group [DAG_MILinkTestDb] force_failover_allow_data_loss
go
```

--table cleanup

```
use MILinkTestDb
truncate table MessageTbl
go
```

--database cleanup

```
use master
drop database MILinkTestDb
go
```

150%

Query executed successfully.

wwi-2022-sql (16.0 RTM) | wwi-2022-sql\cloudsa (74) | MILinkTestDb | 00:00:00 | 0 rows

150%

Query executed successfully.

chimera-canary-gp-01.1ef22dd91f8c.database.windows.net | cloudsa (131) | MILinkTestDb | 00:00:00 | 1 rows

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o Čížký

Reverse replication – SQL MI database replica on SQL Server  
2022 hosted anywhere

SQLQuery2.sql - chimera-canary-gp-01.1ef22dd91f8c.database.windows.net.master (cloudsa (137)) \* - Microsoft SQL Server Management Studio (Administrator)

File Edit View Query Project Tools Window Help

Quick Launch (Ctrl+Q)

Object Explorer

master

Execute

SQLQuery1.sql - wwi-2022-sql (68)\*

```
--create test DB
use master
create database MILinkTestDb
go

--create test table
use MILinkTestDb
create table MessageTbl
(
    id int identity not null,
    message varchar(max) not null,
    timestamp datetime not null
)
go

--update table content
use MILinkTestDb
declare @sql_message varchar(max);
set @sql_message = 'Written on SQL Server instance ' + @@servername;
insert into MessageTbl values (@sql_message, getutcdate())
go

--show table content
use MILinkTestDb
select * from MessageTbl
go

--enable connections on the secondary replica
use master
alter availability group [AG_MILinkTestDb]
    modify replica on 'wwi-2022-sql' with (secondary_role ( allow_connections))
go

--change the local link role to 'secondary'
use master
alter availability group [DAG_MILinkTestDb]
```

150%

Query executed successfully.

wwi-2022-sql (16.0 RTM) | wwi-2022-sql\cloudsa (68) | MILinkTestDb | 00:00:00 | 3 rows

SQLQuery2.sql - chimera-canary-gp-01.1ef22dd91f8c.database.windows.net.master (cloudsa (137)) \*

```
--execute on SQL MI

--create test DB
use master
create database MILinkTestDb
go

--turn TDE off
use master
alter database MILinkTestDb set encryption off
go

--drop DEK
use MILinkTestDb
drop database encryption key
go

--create test table
use MILinkTestDb
create table MessageTbl
(
    id int identity not null,
    message varchar(max) not null,
    timestamp datetime not null
)
go

--update table content
use MILinkTestDb
declare @sql_message varchar(max);
set @sql_message = 'Written on SQL MI ' + substring(@@servername, 1, charindex('-', @@servername) - 1) + ' ' + convert(varchar(10), getdate(), 112)
insert into MessageTbl values (@sql_message, getutcdate())
go

--show table content
```

150%

Query executed successfully.

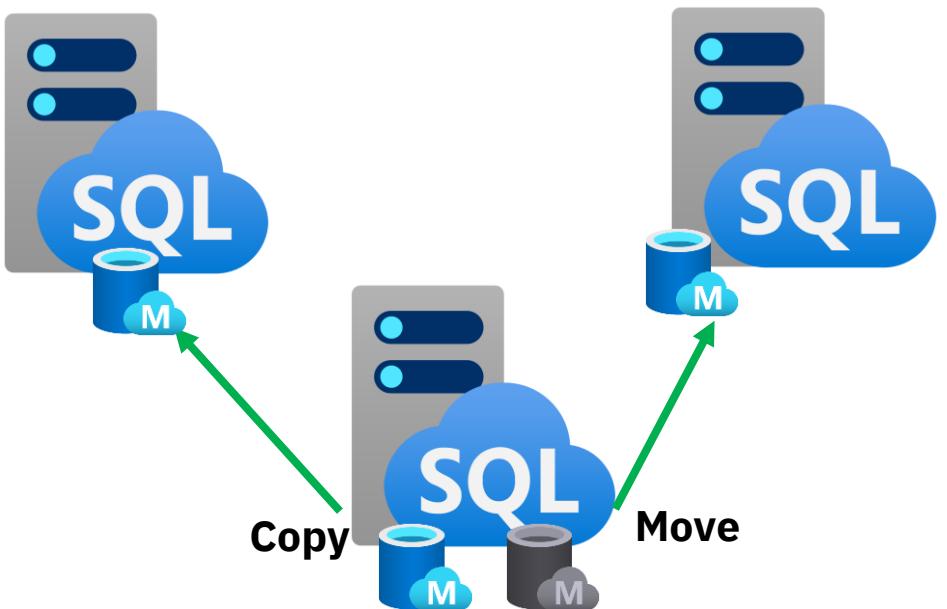
chimera-canary-gp-01.1ef22dd91f8c.database.windows.net | cloudsa (137) | master | 00:00:00 | 0 rows

Ready

Ln 17 Col 17 Ch 17 IN5

# Managed Database Copy and Move

- Perform online, cross-instance, database copy and database move.
- Fully controllable failover – point of the cutover
  - Cross-subscription copy or move of managed database



# SQL MI Database Copy Demo

The screenshot shows the Microsoft Azure portal interface for managing databases. The left sidebar navigation bar includes links for Home, ddhsqalmi1, Active Directory admin, Properties, Locks, Data management (with Databases selected), Backups, Failover groups, Security (with Networking, Microsoft Defender for Cloud, Transparent data encryption, Private endpoint connections (Preview), SQL trust groups, and Identity listed), and Identity.

The main content area displays the "ddhsqalmi1 | Databases" blade. It features a toolbar with Refresh, New database, Move, Copy, Delete, and Feedback buttons. Below the toolbar is a search bar and a filter section with "Search for a database" and "Add filter". A descriptive text block states: "Manage database operations from this blade, create, delete and restore databases, perform cross-instance online database copy and move."

A table lists the databases:

<input type="checkbox"/>	Database	Status	Creation time (UTC)	Earliest restore time (UTC)
<input type="checkbox"/>	test_db_copy	Online	2022-10-28 10:27	2022-10-28 10:28
<input type="checkbox"/>	SqlMIDatabase	Online	2022-10-11 22:46	2022-10-21 15:27
<input type="checkbox"/>	WWIPurchaseOrdersSubscriberDb	Online	2022-10-10 14:48	2022-10-21 15:27
<input type="checkbox"/>	db1	Online	2022-10-06 18:15	2022-10-21 15:27
<input type="checkbox"/>	test_db_move	Online	2022-10-28 15:23	2022-10-28 15:24

# SQL MI Database Copy Demo

The screenshot shows the Microsoft Azure portal interface for managing databases. The left sidebar shows the navigation path: Home > ddhsqalmi2 > Databases. The main content area is titled "ddhsqalmi2 | Databases" and displays the "Data management" section. Under "Databases", a new database named "test\_db\_copy" is listed, showing it was created online at 2022-10-28 15:28. The portal header indicates two tabs are open: "ddhsqalmi1 - Microsoft Azure" and "ddhsqalmi2 - Microsoft Azure".

ddhsqalmi2 | Databases

SQL managed instance

Search

Refresh New database Move Copy Delete Feedback

Manage database operations from this blade, create, delete and restore databases, perform cross-instance online database copy and move.

Search for a database Add filter

Database	Status	Creation time (UTC)	Earliest restore time (UTC)
test_db_copy	Online	2022-10-28 15:28	2022-10-28 15:29

Active Directory admin Properties Locks

Data management

- Databases
- Backups
- Failover groups

Security

- Networking
- Microsoft Defender for Cloud
- Transparent data encryption
- Private endpoint connections (Preview)
- SQL trust groups
- Identity

# + ÝÜKÜÜGİB ÜZÜÜ



Continue the demo party on YouTube  
<https://aka.ms/sqlmi-youtube>

- How-to tutorials for SQL Managed Instance  
<https://aka.ms/sqlmi-howto>
- Azure free online courses  
<https://learn.microsoft.com/training>
- Azure SQL learning tools online  
<https://aka.ms/LearnAzureSQL>
- Azure SQL documentation  
<https://aka.ms/azuresqldocs>

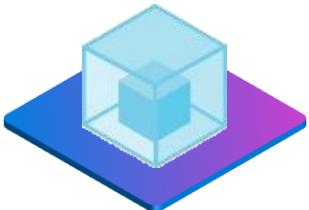
# 1 | 5GÖÖGÜEG" džGÖN 7!ÍŷCÍCÖG

## Azure SQL Managed Instance



[aka.ms/freesqlMI](http://aka.ms/freesqlMI)

### What's included



- **1 instance** per Azure subscription
- **4 or 8 vCores** of GP compute
- **750 vCore hours** per month
- **64 GB data** storage
- **64 GB backup** storage

### Use it for 12 months



- Use this free offer to support your migration proof of concepts for **12 months**.

### You're in control



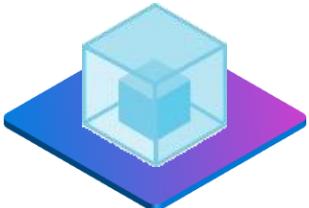
- Optimize your monthly available vCore hours by **stopping** and **starting** the instance when necessary.

## Azure SQL Database



[aka.ms/SQLfreeoffer](http://aka.ms/SQLfreeoffer)

### What's included



- **1 Azure SQL Database** per Azure subscription
- **100,000 vCore seconds** per month.
- **32 GB data** storage
- **32 GB backup** storage

### No time limits



- Apply this free offer for the **life** of your **subscription**.

### Need more? No problem.



- Stick with the default **auto-pause** option or continue usage for additional charges.

# Thank you!



Azure SQL Managed Instance  
Demo Party



Leave us feedback at -> *ulhoua*