

SQL KONFERENZ 2026

SQL
KONFERENZ
2026



Accelerate SQL Server Migration with Azure Arc and Copilot to Next-Gen Azure SQL Managed Instance

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Microsoft

Dani is a Senior Product Manager at Microsoft working on building Azure SQL platform features.

Experience: SQL Server, Azure SQL, Azure Arc, hybrid environments, data mobility, high availability, backup and restore, monitoring, intelligent performance and data mobility.

Involved with building Azure SQL Managed Instance since the service launch in 2018.

@danimir

aka.ms/sqlmi-videos

https://www.linkedin.com/in/danimir

Cloud migration continues to be top of mind, but...

82% of breaches involve human error[4]

! Manage cyber risk and compliance

45% IT spend will be in cloud by 2026[1]

★ Fully-managed services

90% New apps will embed AI by 2025[2]

★ Artificial Intelligence

#1 organizational initiative[5]

! Offset costs, prepare for recessions



100+ vendors and tools for an organization[6]

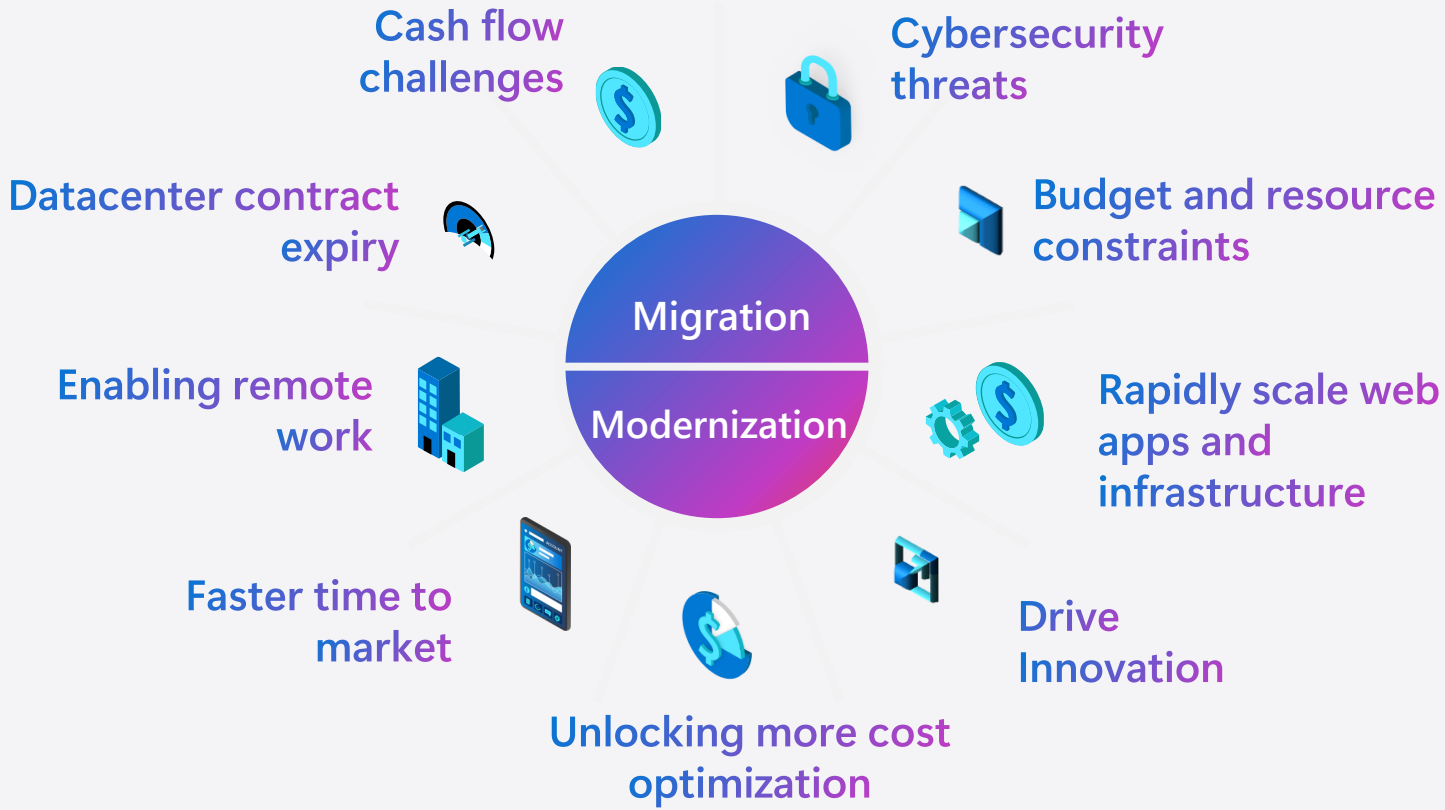
! Manage resource and tool sprawl

95% New initiatives will be cloud-native by 2025[3]

★ Cloud-native

1. Gartner Says Four Trends Are Shaping the Future of Public Cloud – Gartner, August 2021
2. IDC FutureScape Outlines the Impact "Digital Supremacy" Will Have on Enterprise Transformation and the IT Industry | Business Wire – IDC, October 2019
3. Gartner Identifies the Top Strategic Technology Trends for 2022 – Gartner, October 2021
4. 2023 Data Breach Investigations Report (DBIR) – Verizon, 2023
5. Flexera 2023 State of the Cloud Report
6. Going lean: How vendor consolidation creates big gains, MIT Technology Review, June 2020

Migration and modernization triggers



Why Migrate to Azure

Azure delivers desired outcomes



Maximize ROI

76%

savings over AWS[1]



Unmatched performance and resilience

5x

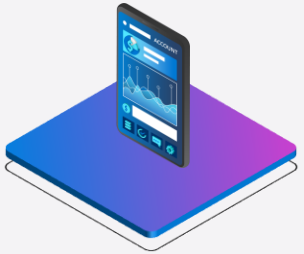
faster than AWS[2]



Comprehensive code to cloud security

219%

ROI on security[3]



AI ready

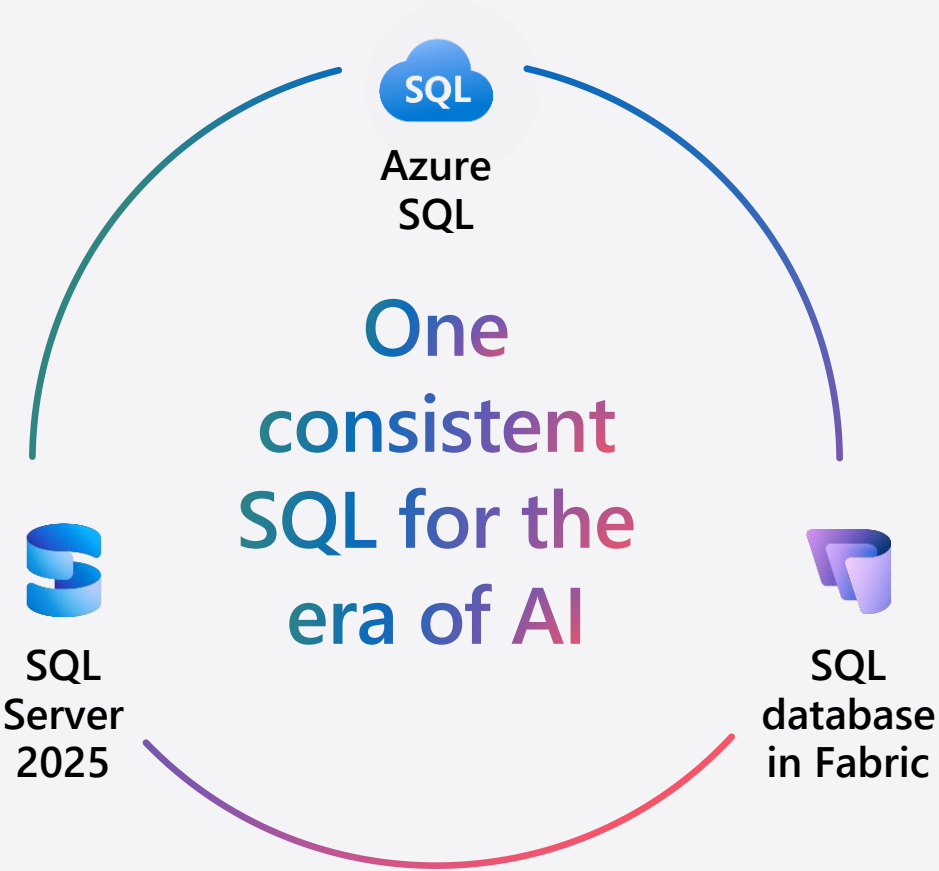
284%

ROI with Azure AI[4]

Unified operations and management across hybrid and multicloud

Secure, develop, and operate infrastructure, applications, and Azure services anywhere

1. These savings are based on comparisons with AWS equivalent VM types and prices plans, when applying Windows Server and SQL Server licenses with Azure Hybrid Benefit and free Extended Security Updates. They are calculated using sample VMs such as StandardB2ms, StandardD2sv3, and StandardD4s_v3 across various regions, including US West (Oregon), Frankfurt, and Paris. The savings are based on on-demand pricing and include License and Software Assurance, and Extended Security Update costs. Actual savings may vary depending on the region, instance size, compute family, and customer agreement. Prices are as of September 2024 and are subject to change.
2. Microsoft Azure SQL Managed Instance benchmark vs. AWS RDS for SQL Server using Azure Hybrid Benefit pricing, May 2022. Comparison also shows that SQL runs *up to* 5x faster.
3. The Total Economic Impact™ Of Microsoft Defender for Cloud" August 2024, commissioned by Microsoft. Organizations experience 219% ROI over three years.
4. Forrester Total Economic Impact™ of Microsoft Azure AI, April 2023


SQL
Azure SQL
One consistent SQL for the era of AI
SQL Server 2025
SQL database in Fabric

Azure is the cloud that knows SQL best

The family of SQL cloud databases



SQL Server on Azure Virtual Machines



Azure SQL Managed Instance



Azure SQL Database

Migration

Innovation

Best for: *Migrating ("lift and shift") 3rd party apps* to customer-managed Azure virtual machines.

Best for: *Migrating custom apps at-scale* to a Microsoft-managed, SQL Server-compatible instance.

Best for: *Developing highly-scalable, AI-ready applications* with SQL's reliability and security at commercial open-source database costs.



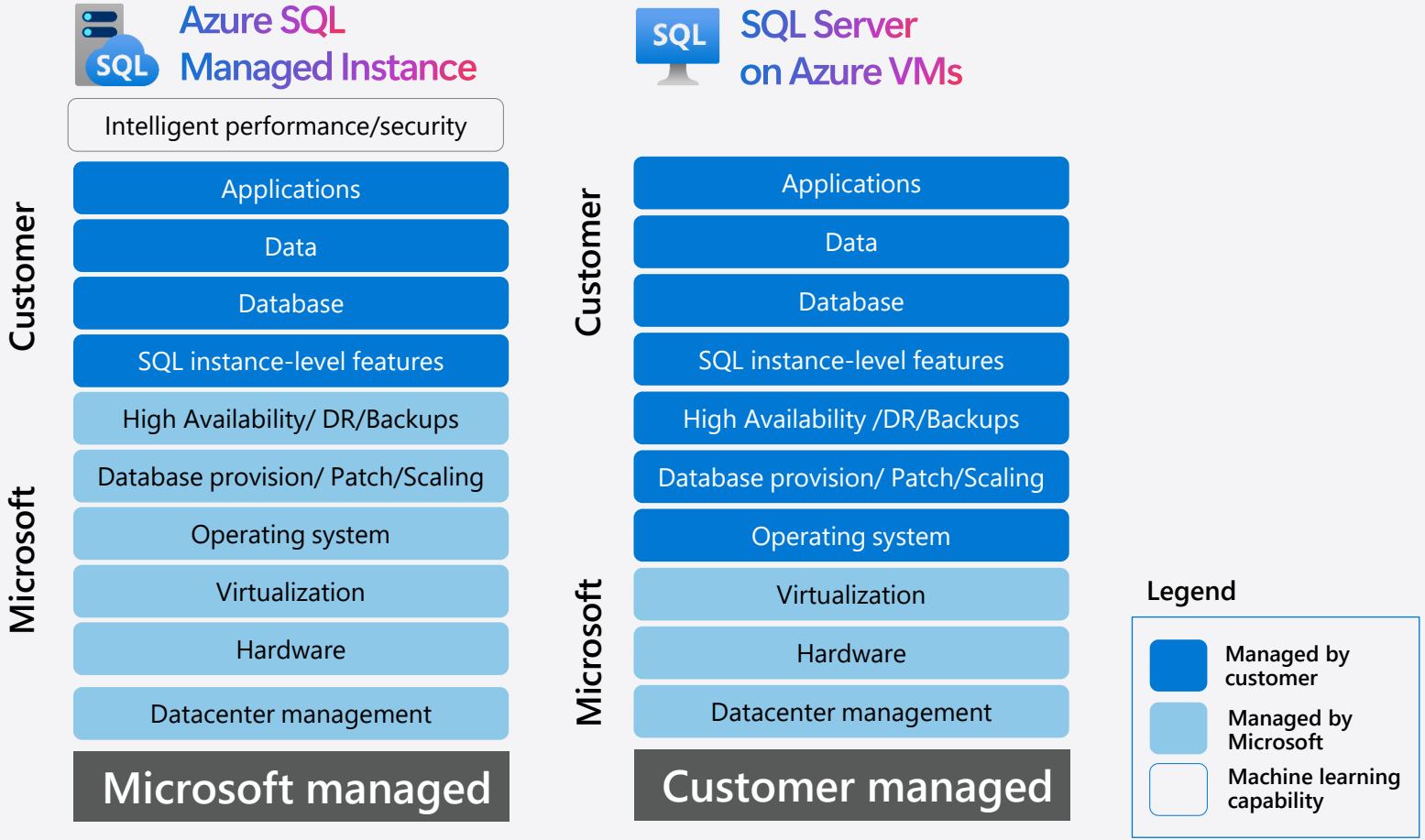
Azure SQL enabled by Azure Arc

Run Azure SQL on premises and in multi-cloud environments

Your first step on the journey to Azure.

Azure is the cloud that knows SQL Server best

Shared Responsibilities Between Microsoft & Customers





Azure SQL Managed Instance

Modernize SQL Server data at scale to a fully managed database as a service

Optimize performance for mission critical workloads

Evergreen compute and storage technologies

Optimized automatically through ML-based tuning

Up to **93% lower cost** compared to the competition

Increase DBA productivity

Fully managed and **always up to date** service

Performs time-consuming tasks on your behalf

Accelerates deployment and **scaling**

Keep your data secure and available

Industry-leading, multi-layered protection

Built-in **high availability** and **SLA up to 99.995%**

Built-in controls and **leading compliance**

Enable hybrid flexibility for SQL data stored anywhere

Cloud connectivity and Azure innovation **extended to on-premises**

Migration options on your terms

Unified management across environments

Modernize with AI

Support for **native vector data type** and **functions**

Fast, **accurate vector indexing** and search with DiskANN

Real time analytics with zero ETL using Fabric mirroring



Generally Available

Azure SQL Managed Instance Next-gen General Purpose

Generally Available

Azure SQL Managed Instance Next-gen General Purpose

Modernize your SQL workloads with better performance, scale and improved TCO



Enjoy better performance and scale

5x performance, 2x storage, and 5x more databases



Configure for peak efficiency

Maximize efficiency to match unique workload demands



Flexible compute, storage and memory options

Enhance ROI with configurable IOPS and memory slider

What's included



Scale up to **128 vCores**
Up to 870 GB of memory

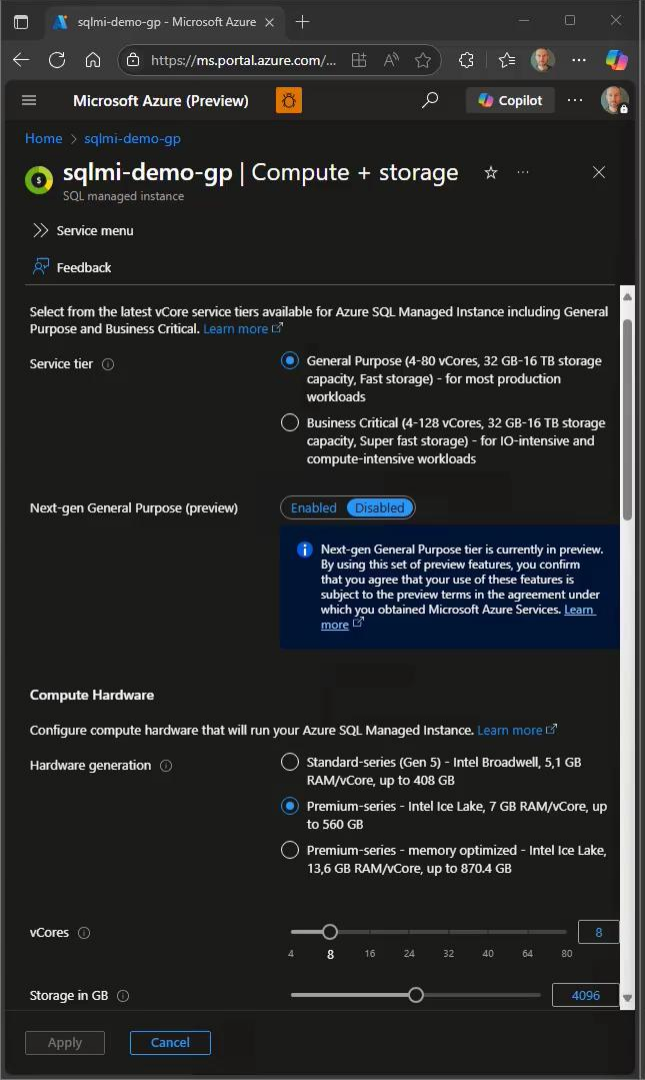


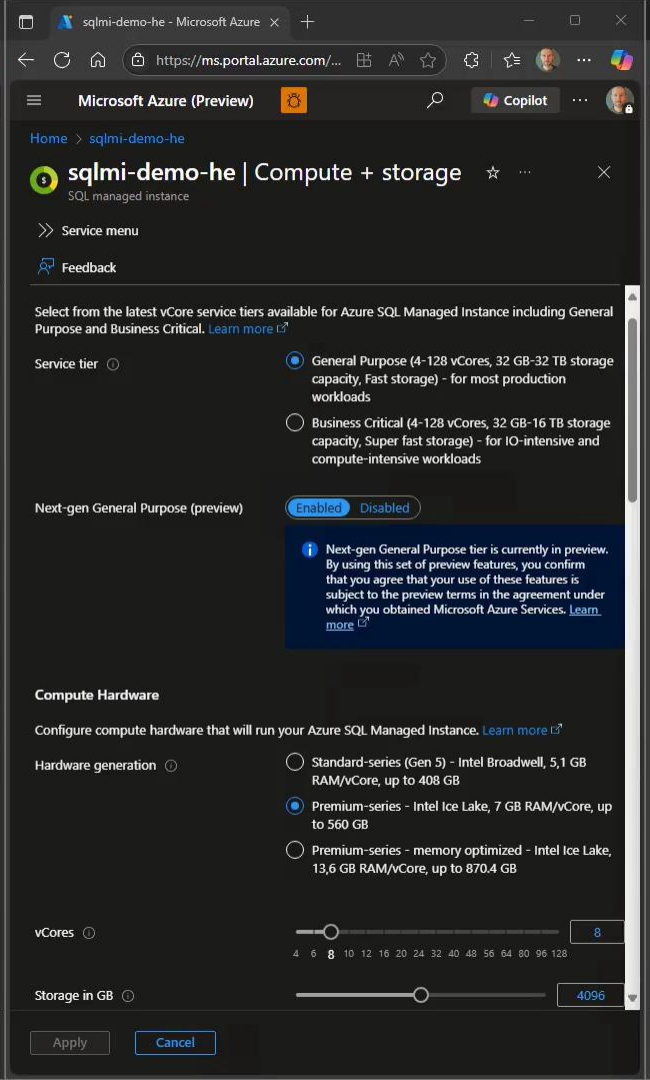
Up to **32 TB of storage**
Up to 500 DBs per instance

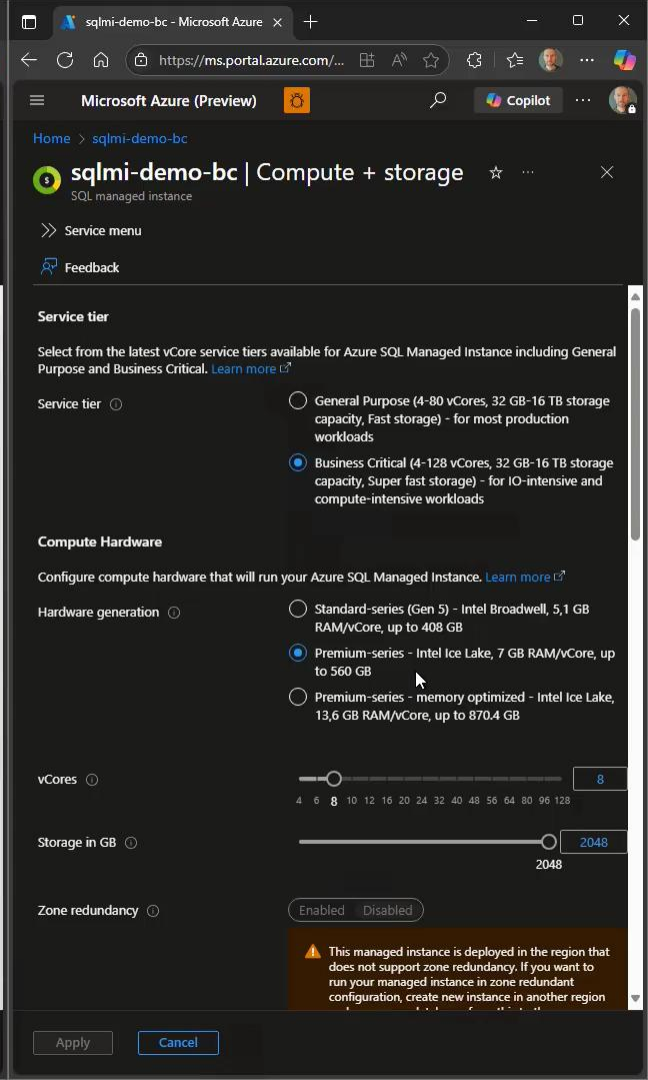


Maximize efficiency with configurable **Input/Output Operations per second(IOPS)** and **memory/vCore ratio**

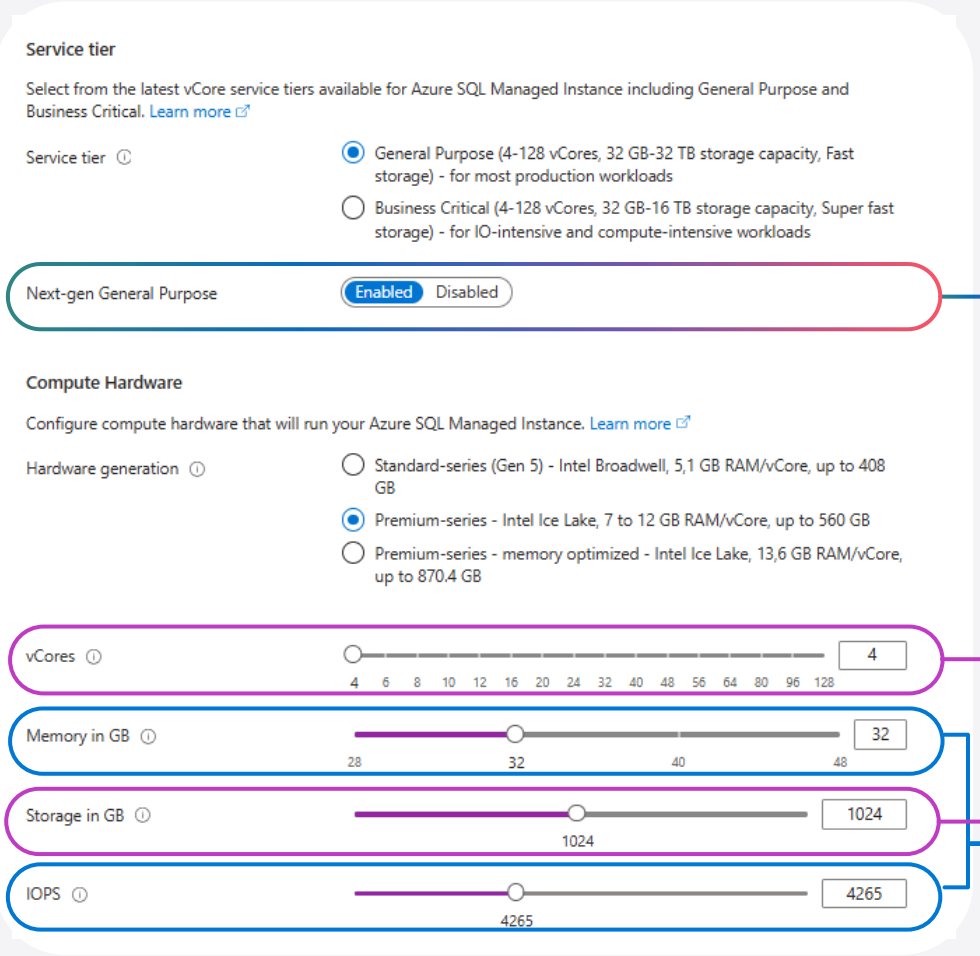
aka.ms/mi-next-gen-gp-blog


sqlmi-demo-gp - Microsoft Azure
https://ms.portal.azure.com/...
Microsoft Azure (Preview)
Copilot
Home > sqlmi-demo-gp
sqlmi-demo-gp | Compute + storage
SQL managed instance
Service menu
Feedback
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 (4-128 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 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
Standard-series (Gen 5) - Intel Broadwell, 5,1 GB RAM/vCore, up to 408 GB
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
8
4 8 16 24 32 40 64 80
Storage in GB
4096
Apply
Cancel


sqlmi-demo-he - Microsoft Azure
https://ms.portal.azure.com/...
Microsoft Azure (Preview)
Copilot
Home > sqlmi-demo-he
sqlmi-demo-he | Compute + storage
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vCores
8
4 6 8 10 12 16 20 24 32 40 48 56 64 80 96 128
Storage in GB
4096
Apply
Cancel


sqlmi-demo-bc - Microsoft Azure
https://ms.portal.azure.com/...
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vCores
8
4 6 8 10 12 16 20 24 32 40 48 56 64 80 96 128
Storage in GB
2048
2048
Zone redundancy
Enabled Disabled
This managed instance is deployed in the region that does not support zone redundancy. If you want to run your managed instance in zone redundant configuration, create new instance in another region
Apply
Cancel

Portal User Experience



When the user selects “Enabled” for Next-gen GP, the UX is **updated to reflect the new limits and new capabilities** enabled by the Next-gen tech.

Existing sliders are **updated with new limits**:

- vCore slider can go from **4** to **128**
- vCore slider has more **interim** values
- Storage slider can go all the way to **32 TB**

New sliders are added for additional **IOPS** and **memory**:

- **Baseline** values for **IOPS** and **memory** are **free** of charge
- Customers **can go beyond the default** (extra charge)

SQL MI Next-gen GP capabilities vs. classic GP and BC

Category	Item	Classic GP	Next-gen GP	BC
Storage model	Performance limits	Per-file	Per-instance	Per-instance
Storage performance	Average I/O latency	5-10 ms	**3-4 ms**	**1 ms**
	Max data IOPS	<50k IOPS (*)	**80k IOPS (*)**	**320k IOPS**
	Max data throughput	~500 MB/s (*)	**1200 MB/s (*)**	**Unlimited**
	Max log rate	120 MB/s	**192 MB/s**	**192 MB/s**
Storage scalability	Max storage	16 TB	**32 TB**	16 TB
	Max DBs/instance	100 DBs	**500 DBs**	100 DBs
	Max files/instance	230 files	32k files	32k files
	IOPS slider	No	**Yes**	No
Compute scalability	Min vCores	4 vCores	4 vCores	4 vCores
	Max vCores	80 vCores	128 vCores	128 vCores
	Num. of vCore sizes	8 click stops	16 click stops	16 click stops
	Memory slider	No	**Yes**	No

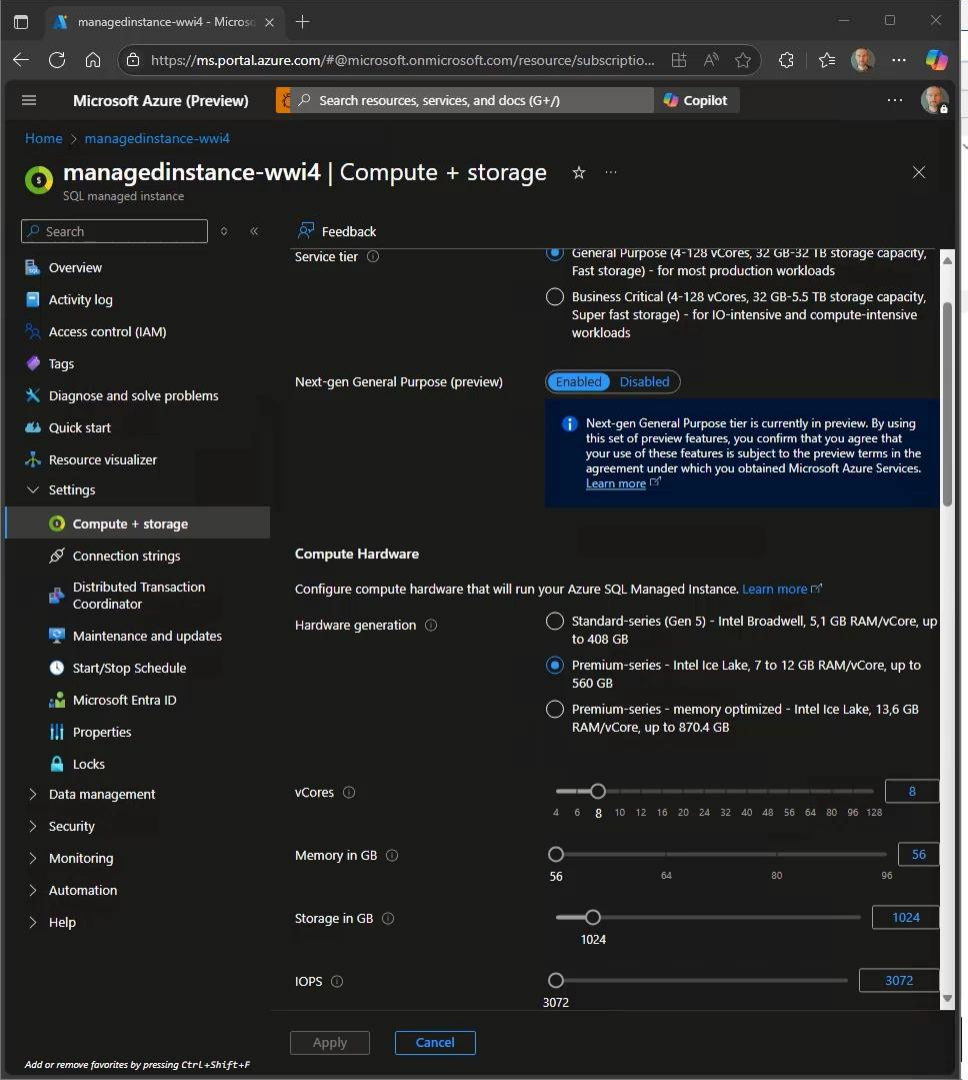
Next-gen GP and BC offer optimal customer experience

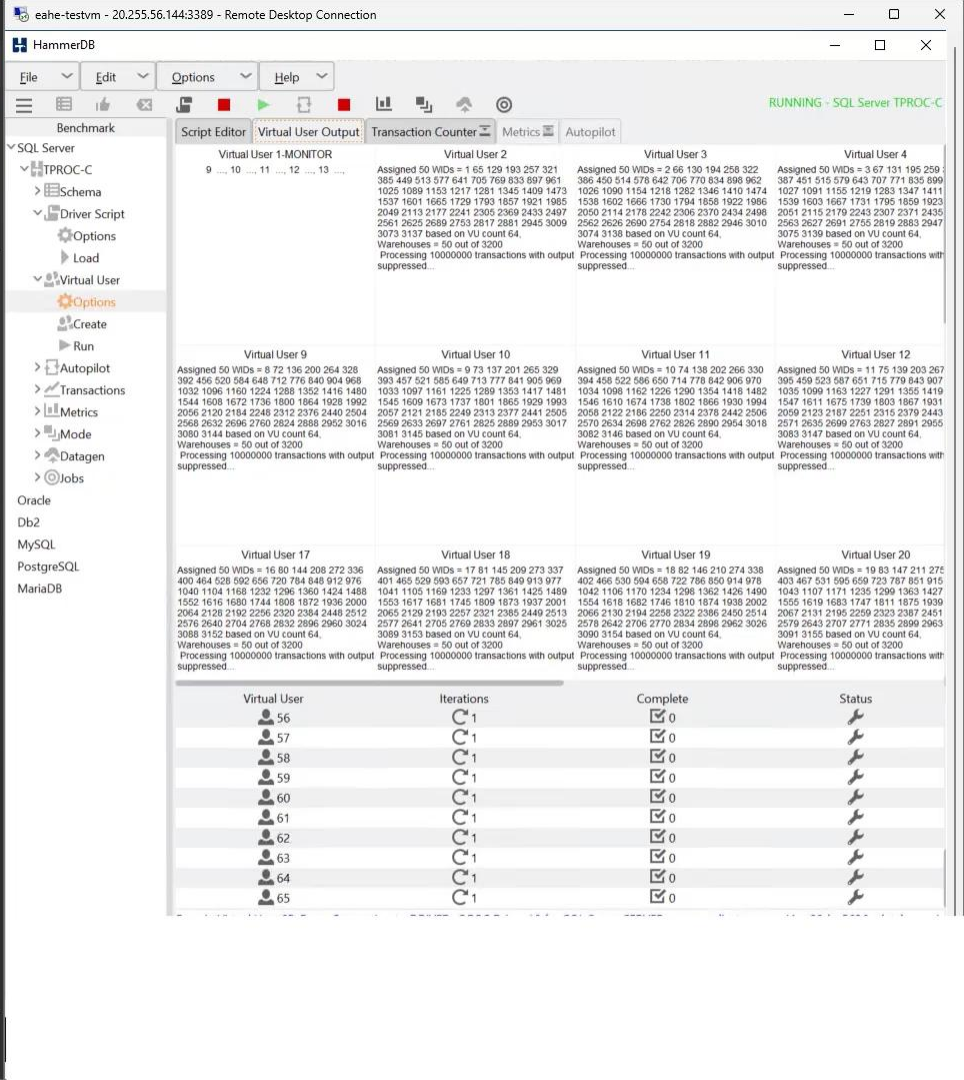
BC provides the best storage performance

Next-gen GP provides the best storage scalability

Next-gen GP and BC offer resource flexibility

(*) subject to VM-level network limits – more pronounced for smaller instances


managedinstance-wwi4 - Microsc
https://ms.portal.azure.com/#@microsoft.onmicrosoft.com/resource/subscriptio...
Microsoft Azure (Preview)
Search resources, services, and docs (G+/)
Copilot
Home > managedinstance-wwi4
managedinstance-wwi4 | Compute + storage
SQL managed instance
Search
Feedback
Overview
Activity log
Access control (IAM)
Tags
Diagnose and solve problems
Quick start
Resource visualizer
Settings
Compute + storage
Connection strings
Distributed Transaction Coordinator
Maintenance and updates
Start/Stop Schedule
Microsoft Entra ID
Properties
Locks
Data management
Security
Monitoring
Automation
Help
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vCores
4 6 8 10 12 16 20 24 32 40 48 56 64 80 96 128
8
Memory in GB
56 64 80 96
56
Storage in GB
1024
1024
IOPS
3072
3072
Apply
Cancel
Add or remove favorites by pressing Ctrl+Shift+F


eahe-testvm - 20.255.56.144:3389 - Remote Desktop Connection
HammerDB
File
Edit
Options
Help
RUNNING - SQL Server TPROC-C
Benchmark
SQL Server
TPROC-C
Schema
Driver Script
Options
Load
Virtual User
Options
Create
Run
Autopilot
Transactions
Metrics
Mode
Datagen
Jobs
Oracle
Db2
MySQL
PostgreSQL
MariaDB
Script Editor
Virtual User Output
Transaction Counter
Metrics
Autopilot
Virtual User 1-MONITOR
Virtual User 2
Virtual User 3
Virtual User 4
Virtual User 9
Virtual User 10
Virtual User 11
Virtual User 12
Virtual User 17
Virtual User 18
Virtual User 19
Virtual User 20
Virtual User
Iterations
Complete
Status
56
57
58
59
60
61
62
63
64
65

Optimize your Azure SQL Costs

Lower the total cost of ownership for your organization



Azure Hybrid Benefit

Maximize existing investments in on-premises licenses with discounted rates of **up to 55%**.



Reserved Capacity

Prepare resources in advance and save **up to 33%**. Combine with Azure Hybrid Benefit for savings **up to 80%**.



Dev/Test Pricing

Save **up to 55%** versus list prices, eligible with active EA dev/test, PayG dev/test and Visual Studio subscriptions.



License-Free Standby Replica and Hybrid Failover Rights

Save on licensing costs for a **secondary deployment** for passive DR (disaster recovery)

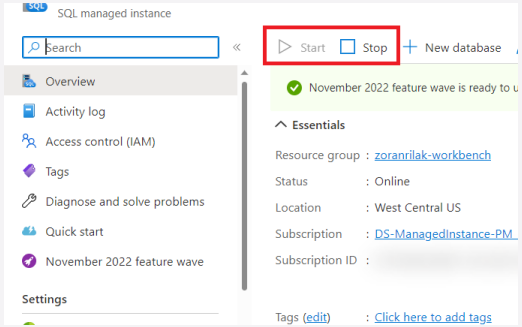
Use Azure Pricing Calculator

https://azure.microsoft.com/pricing/calculator

Start/Stop for SQL MI General Purpose

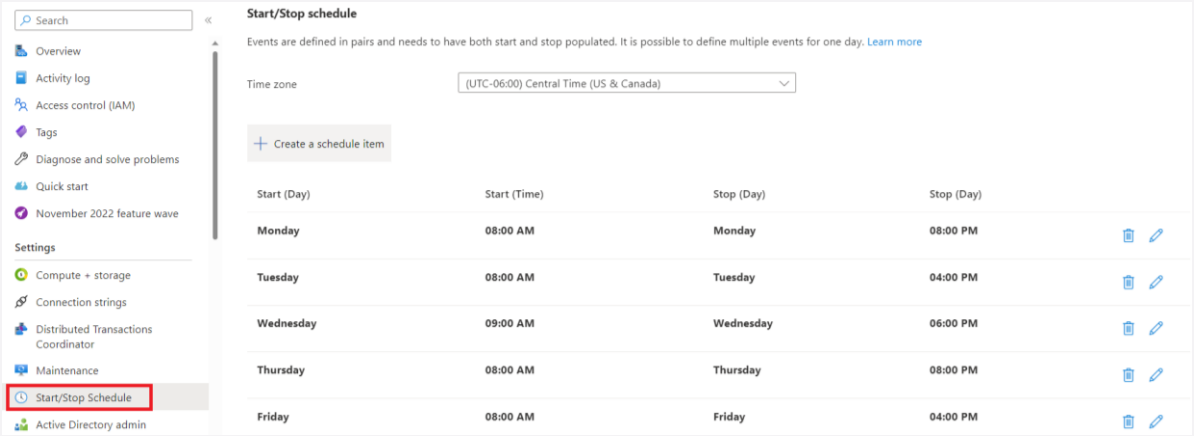
- Significant cost savings
- Pay only for the vCore hours that you use
- Compute and license are not charged
- Compatible with Reserved Instance pricing

Manual Start/Stop



Scheduled Start/Stop

- Times are when the command is triggered
- Duration
  - Stop: ~ 5 min.
  - Start: ~ 20 min.



SQL
KONFERENZ
2026



Step into migration

Steps to migration



Discover
Inventory of all SQL Servers and application servers



Plan
Secure, protect, and optimize via the client connections summary



Execute
Azure SQL readiness, Azure SQL tier and size



Optimize
Replicate databases, test, and complete migration

Understanding Migration and Modernization

Applications | Data | Infrastructure

Migration (IaaS - VMs)

Drivers: Timelines, threats & business model



Expiring contracts, security/resilience/scalability & CAPEX to OPEX

Move workloads "as-is"

Modernization (PaaS/SaaS)

Drivers: Productivity, cost optimization & business insights

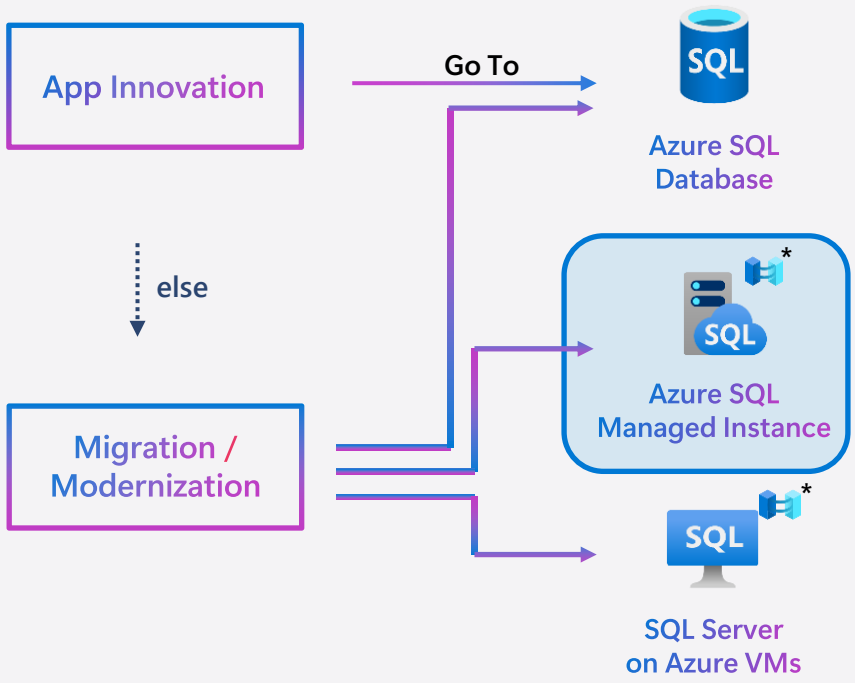


Application Innovations (TTM), reduced resources and lock-in, data analytics (AI)

Update the application stack

Azure on your terms

Choosing the right Azure SQL Target



- Rapid scalability
- Resource pooling for multi-tenant SaaS
- Serverless compute
- 100TB storage
- Auto-Pause to save costs
- Cost at par with open-source options

- Instance model
- Native vNet support
- Maximize License & SA investments
- On-Premises SQL Server compatibility
- Near real-time data replication from on-premises to the cloud?

- OS level access
- Capabilities at the VM level?
- SSRS/SSAS
- SQL Server versions 2012 - 2022?
- Maximize License & SA investments

Benefits of PaaS

- Lower administrative burden
- No End of Support hassles
- Fully managed and up to date
- Dynamic resource scaling
- Built-in high availability and automatic backups
- Multi-model capabilities
- **AI Ready**

Benefits of IaaS

- Maintain OS-level control
- Easy lift-and-shift eliminates app refactoring
- Faster path to the cloud
- **AI Ready.** SQL Server 2025

* Use Azure Arc to enable the same services in your datacenter or on the cloud of your choice, when a hybrid or multi-cloud approach is required

Microsoft-Recommended Guidance Framework

Could Adoption Framework for Azure

Learn more: https://aka.ms/azure-adoption-framework



SQL Server migration entry points

Where to get started for migrations to Azure

Azure Arc



Azure DMS Powered seamless migration experience to Azure

SSMS



Assess and migrate to Azure SQL VM. New Extension in SSMS 21

Azure DMS



Centralized migration experience in Azure Portal

Azure Migrate



Discover and Assess SQL workloads at scale efficiently

SSMA



Assess, convert and migrate heterogenous databases to Azure SQL

Azure Arc

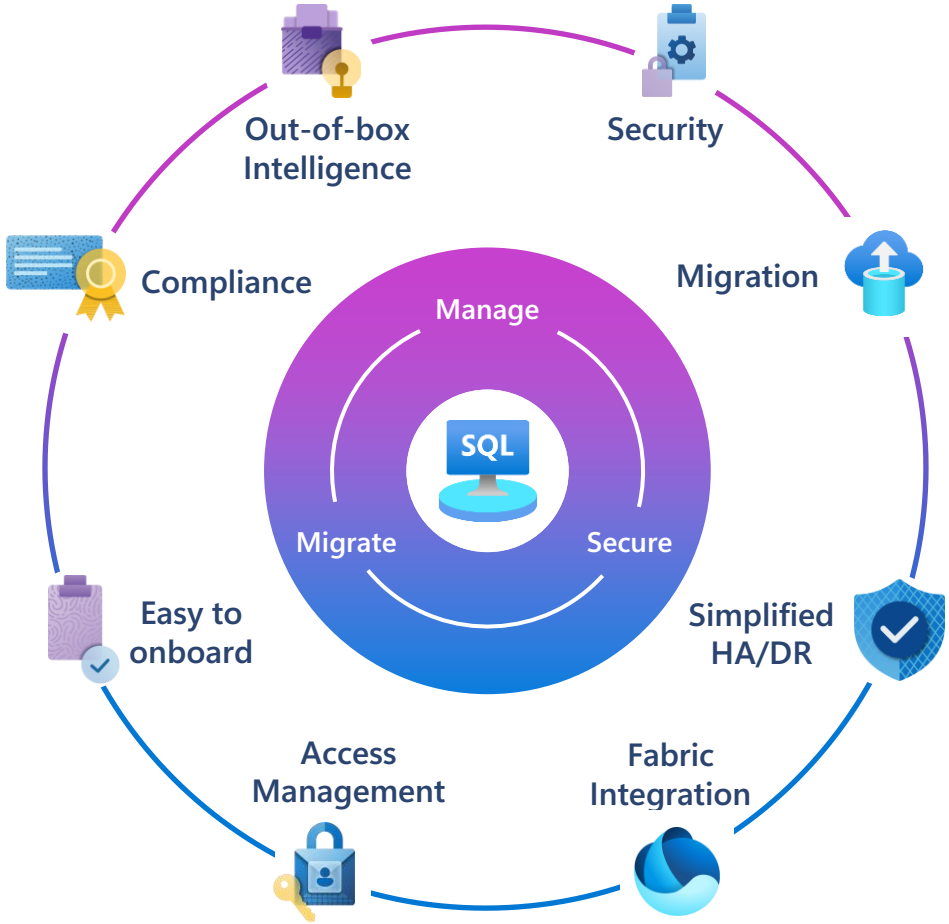
- Are you aware of what Arc enabled SQL Server is?
- Anyone using Arc enabled SQL Server?



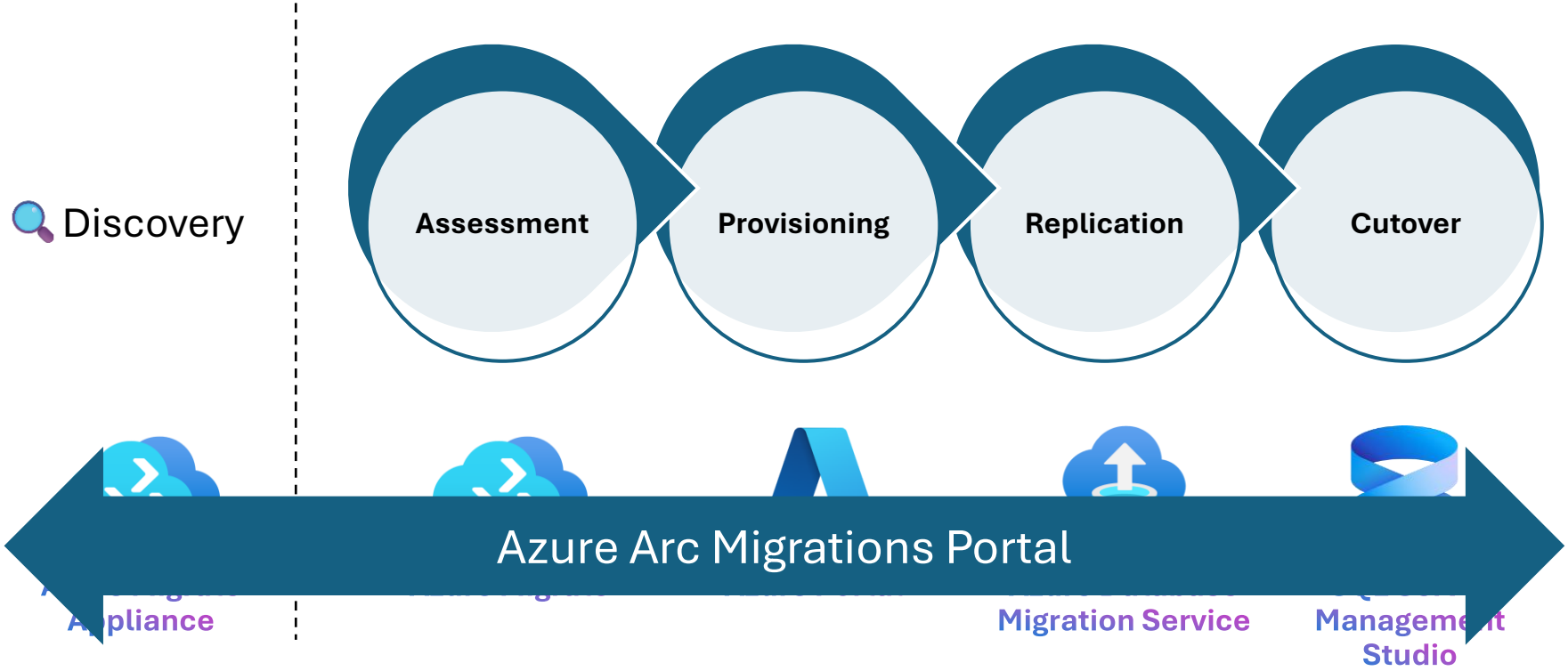
Azure Arc extends Azure services to SQL Server anywhere

Effectively manage SQL estate at scale and strengthen security and governance posture. Streamline migration journey to Azure.

Cloud innovation. Anywhere.



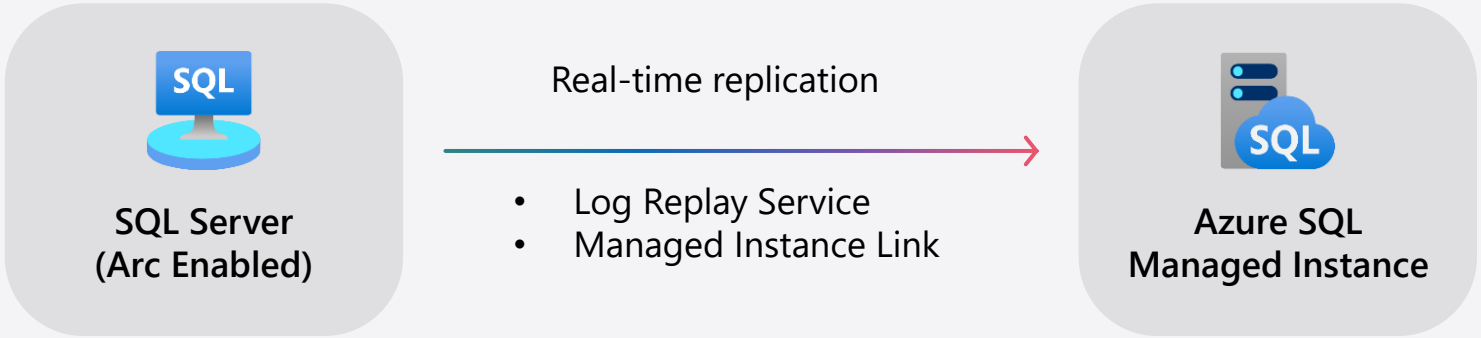
SQL Migration Journey



Generally Available

SQL Server migration experience in Azure Arc

Streamlined, Azure Copilot assisted **end-to-end** migration journey



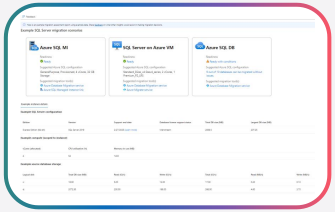
Migrate & modernize your data estate with no downtime

Generally Available

Azure Arc migration experience

Seamless, guided migration from start to finish in Azure Portal

Continuous Assessment

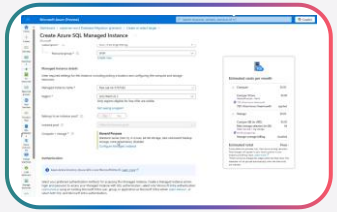


Built-in and Automatic

Readiness and progress dashboards

Get right-sized SKU recommendations

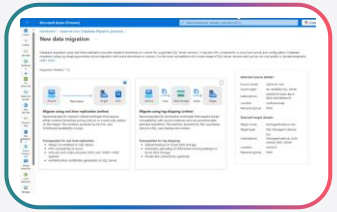
Simplified Provision



Provision recommended Managed Instance target inline

Built-in cost estimates

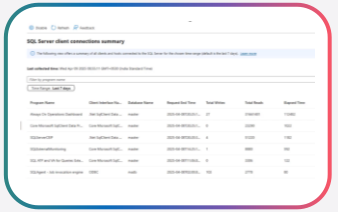
"No downtime" migrations



Real-time replication, powered by Managed Instance Link

Validate the target instance as a read-only replica

Confident Cutover



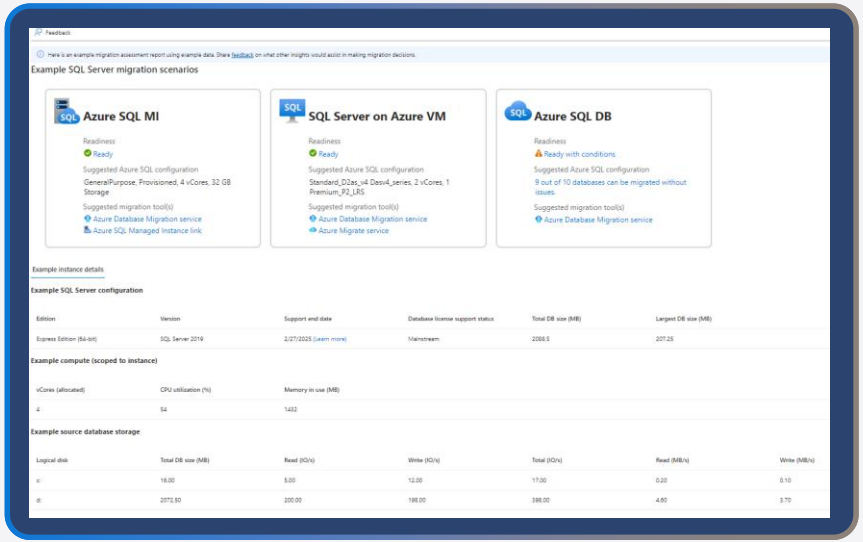
View and assess inbound client connections

Ensure all clients transition to the new target

Cutover with a simple click!

Generally Available

SQL migration assessment in Azure Arc



Free to all customers running SQL Server anywhere
Available for all SQL Server versions 2012 and later

Enabled by default

Assessment is baked in when customers enable SQL Server with Azure Arc

Actionable assessment view at scale

Evaluate and measure the readiness of SQL Servers for Azure SQL, identify migration risks with mitigation actions

Best-fit recommendations on SQL IaaS/PaaS

Optimize for performance and cost with guidance on service tier, sizing and migration tooling

Out of box and continuous reporting

Discovery of SQL Server and its readiness reports are instant, automatic and continuous, with zero additional setup time

Generally Available

At scale assessments

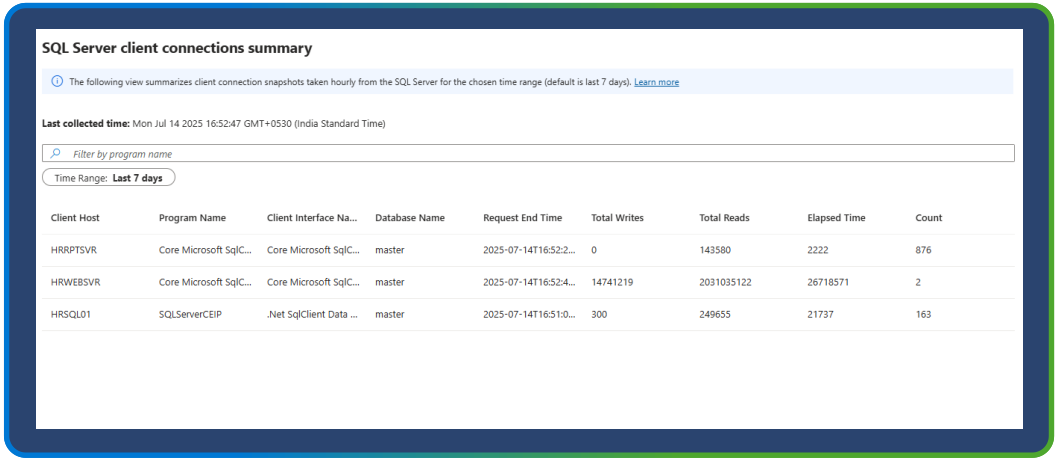


For all Arc enabled SQL Servers

Assesses database for migration

- View summary of migration assessment
- Access through Database Migration Service in Azure portal
- Automated refresh every 7 days, or on-demand

Identify clients for maintenance and migration



View summary of client connections right from the Azure portal

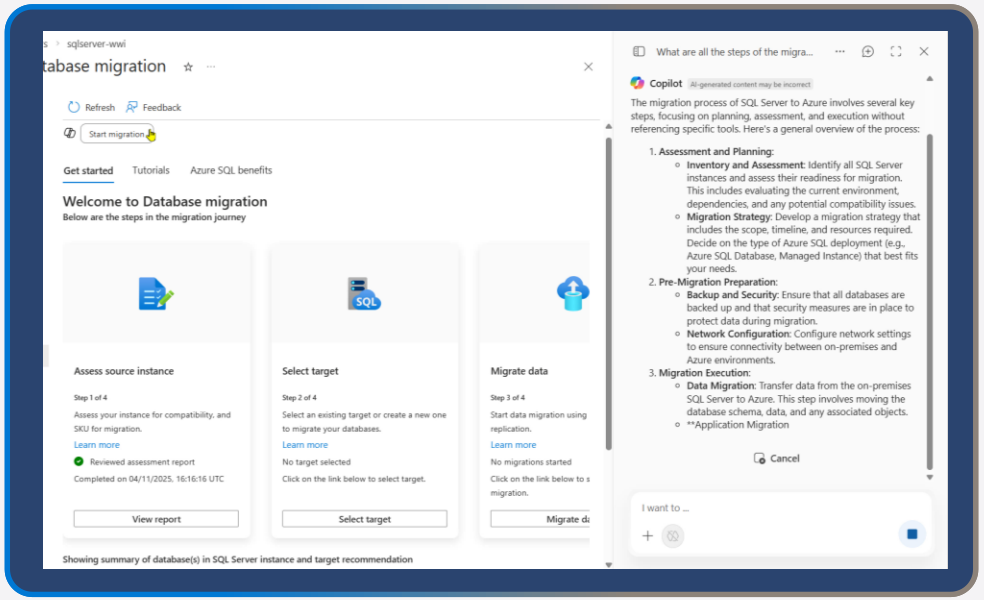
Identify important applications connecting to your SQL Server

Communicate to application owners about the migration window

Verify that clients have reconnected to the new target

Generally Available

Copilot-assisted



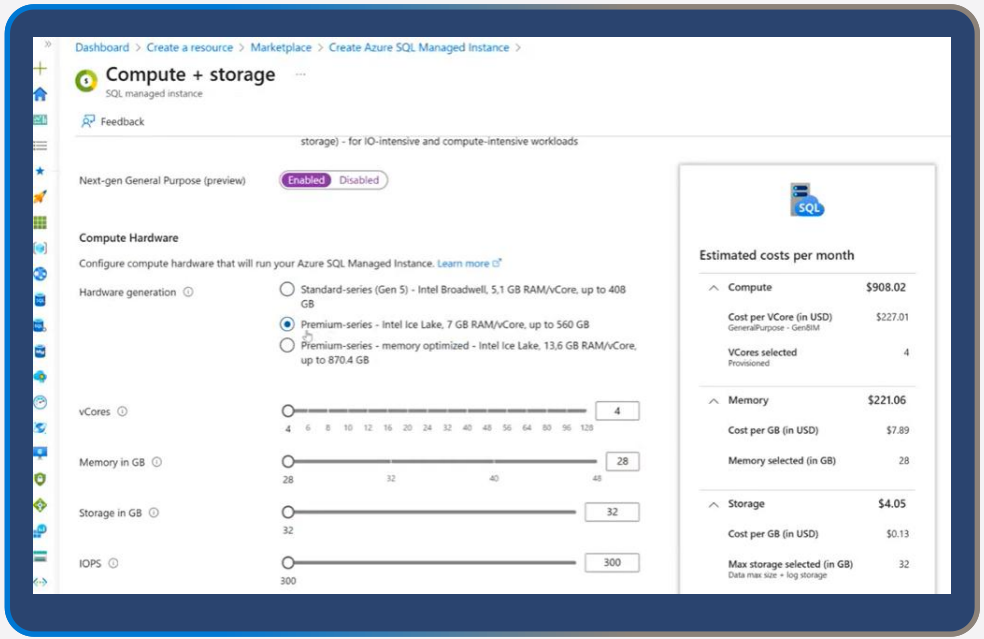
Integrates Microsoft Copilot

Assistance with

- Migration process
- Understanding assessments
- Deciding on the migration method
- Configuring networking
- Post-migration steps

Generally Available

Next-Gen SQL MI – new provisioning options



New provisioning options

1. Hardware

- Premium-series Intel Ice Lake, and memory optimized configuration

2. More granular vCore click-stops

- vCore steps are now more granular with more steps in between than before

3. Memory slider \ industry leading

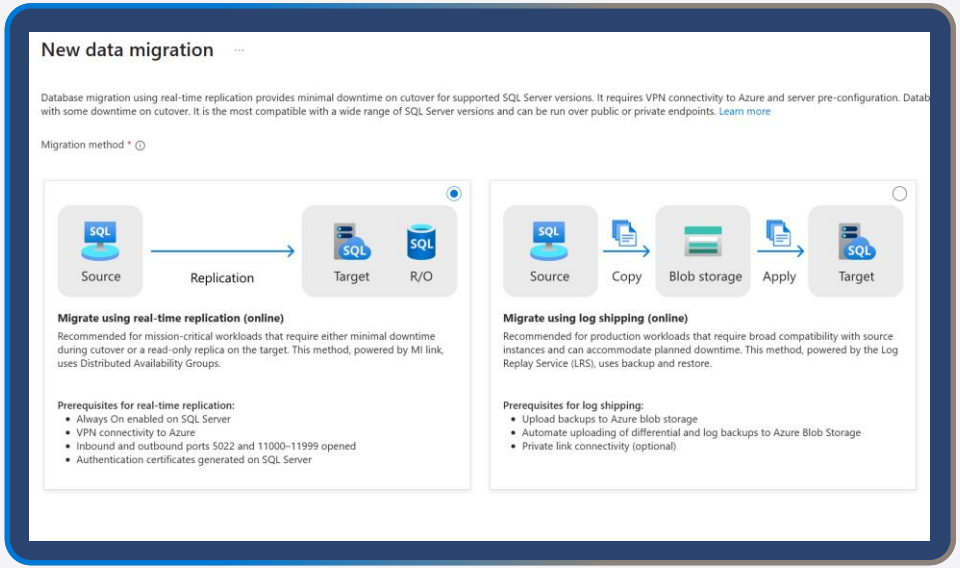
- Provision desired memory \ capacity changes per vCore selection

4. OPS slider

- Provision desired IOPS \ capacity changes per vCore selection

Generally Available

Migration methods



Integrates two migration methods:

1. Real-time replication - with MI link

- Minimal downtime for mission critical workloads
- R/O replica while migration is in progress
- Based on Always On
- Supported SQL Server 2016 and above

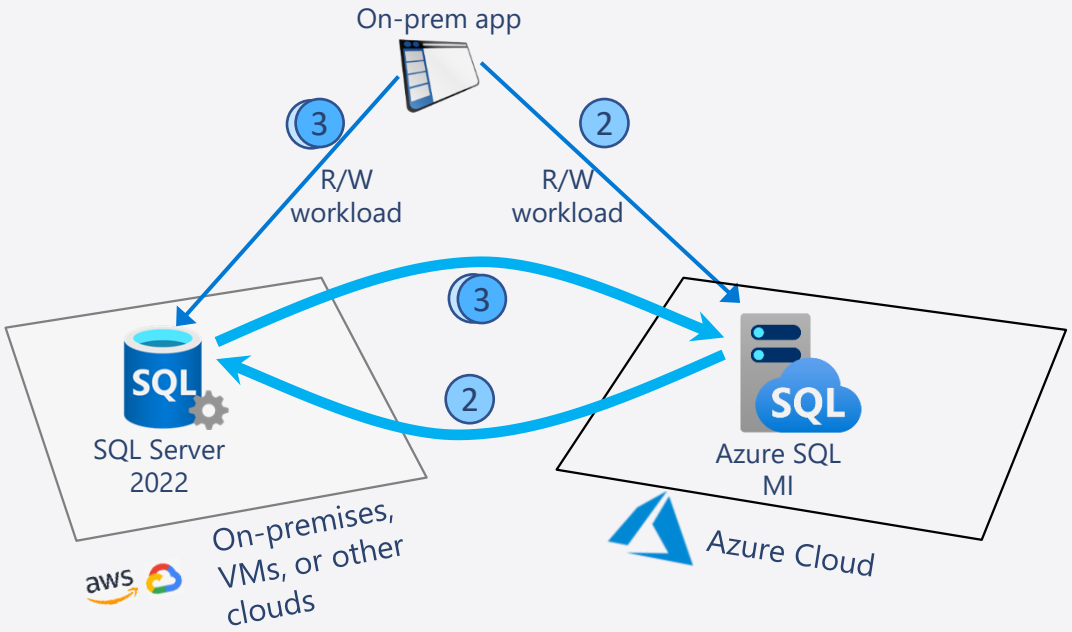
2. Log shipping - with LRS

- Broad compatibility with source instances that can accommodate planned downtime
- Based on Backup and Restore
- Supported SQL Server 2008 and above

Highlights

- Migration vehicles integrated into a single experience provide one-stop-shop addressing all types of customer needs, configurations and workloads
- Customer chooses option most suitable for their business needs and types workloads
- Migration methods can be mixed across same migration sources and destinations to suite the need
- For detailed comparison between the two migration vehicles, see Compare LRS with Managed Instance Link

Real time replication - Managed Instance link



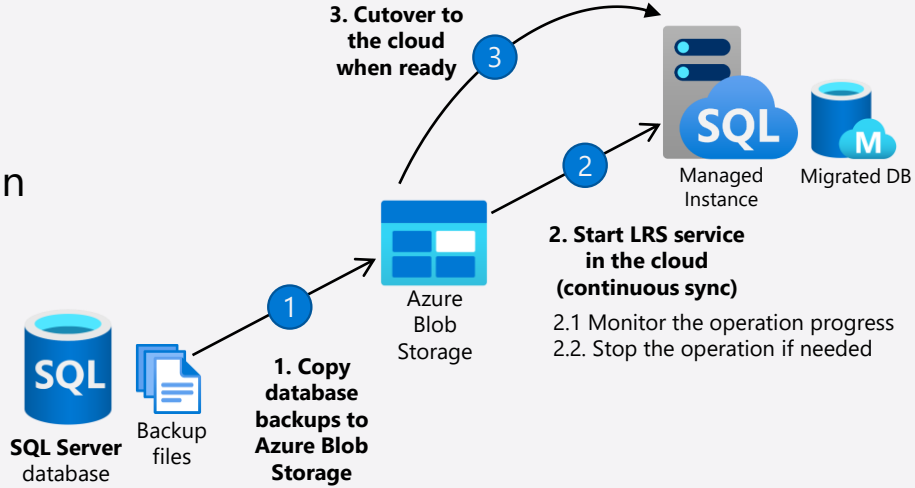
1. Configure a link to replicate SQL Server DB to Azure.
2. Failover to Azure. Local link roles are reversed.
3. Failback to SQL Server. The original link roles are restored.

- Near real-time online replication from SQL Server to Managed Instance
- Online failback to SQL Server 2022

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Azure

Log Shipping - Log Replay Service (SQL MI)

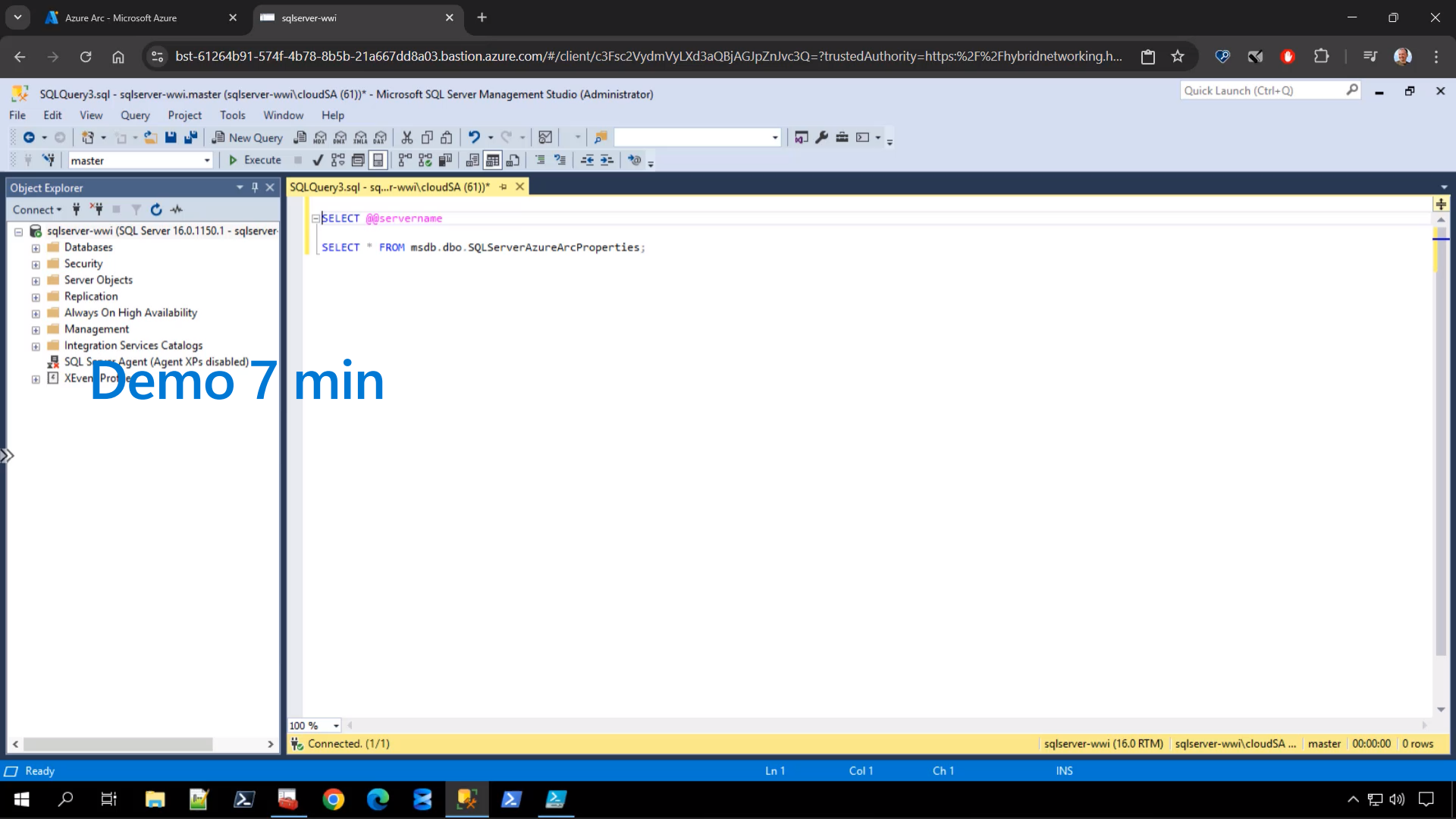
- Custom migrations to the cloud using LRS for SQL Server **2012-2025**
- Based on the **log shipping** technology
- Database scoped
- Cutover when ready
- Database is not accessible during migration



Steps:

1. Enable backup log shipping from SQL Server to Azure Blob Storage, schedule as Agent job
2. Start the Log Shipping Service (LRS) in the cloud
3. Cut-over manually, or automatically to SQL MI when ready

Microsoft Azure


Azure Arc - Microsoft Azure
sqlserver-wwi
bst-61264b91-574f-4b78-8b5b-21a667dd8a03.bastion.azure.com/#/client/c3Fsc2VydmVyLXd3aQBjAGJpZnJvc3Q=?trustedAuthority=https:%2F%2Fhybridnetworking.h...
SQLQuery3.sql - sqlserver-wwi.master (sqlserver-wwi\cloudSA (61))* - Microsoft SQL Server Management Studio (Administrator)
Quick Launch (Ctrl+Q)
File Edit View Query Project Tools Window Help
New Query
master
Execute
Object Explorer
Connect
sqlserver-wwi (SQL Server 16.0.1150.1 - sqlserver-
Databases
Security
Server Objects
Replication
Always On High Availability
Management
Integration Services Catalogs
SQL Server Agent (Agent XPs disabled)
XEvent Profiler
SQLQuery3.sql - sq...r-wwi\cloudSA (61))*
SELECT @@servername
SELECT * FROM msdb.dbo.SQLServerAzureArcProperties;
Demo 7 min
100 %
Connected. (1/1)
sqlserver-wwi (16.0 RTM)
sqlserver-wwi\cloudSA ...
master
00:00:00
0 rows
Ready
Ln 1
Col 1
Ch 1
INS

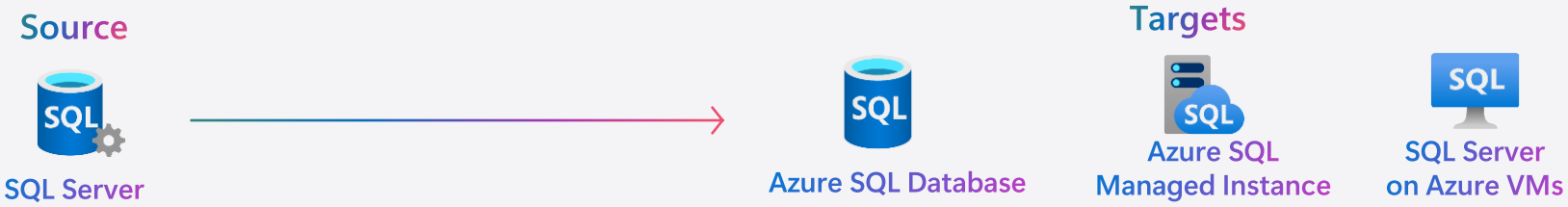
SQL
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2026



Alternative migration methods and failback

DIY for custom migration projects

Alternative migration methods



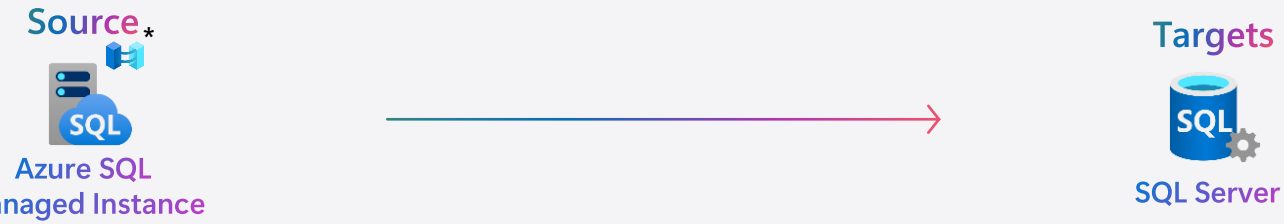
Category	Method	Azure SQL Database	Azure SQL MI	SQL Server in Azure VM
Backup & Restore	**Restore backups**	~ **Limited** with bacpac – 200 GB only Recommended Smart Bulk Copy 1TB +	✓ **Yes**	✓ **Yes**
	Log shipping	X **No**	✓ **Yes**, using LRS (Log Replay Service)	✓ **Yes**
Logical replication	**Transactional replication**	✓ **Yes** (subscriber only)	✓ **Yes** (subscriber and publisher)	✓ **Yes**
	ADF (Azure Data Factory – ETL service)	✓ **Yes**	✓ **Yes**	✓ **Yes**
Always On	**Availability Groups**	X **No**	X **No**	✓ **Yes**
	Distributed Availability Groups	X **No**	✓ **Yes**, using MI link feature	✓ **Yes**
Remote access	**Linked servers**	X **No** (only SQL Server can read from Azure SQL DB)	✓ **Yes** (MI can read from SQL Server)	✓ **Yes**

Failback strategies: Azure SQL VM -> SQL Server



Category	Method	Supported ?
Backup & Restore	• **Restore backups**	✓ **Yes**
	• **Log shipping**	✓ **Yes**
Logical replication	• **Transactional replication**	✓ **Yes**
	• **ADF (Azure Data Factory – ETL service)** • **SSIS, or Custom ETL** • **Generate Schema and data scripts in SSMS**	✓ **Yes**
Always On	• **Availability Groups**	✓ **Yes**
	• **Distributed Availability Groups**	✓ **Yes**
Remote access	• **Linked servers**	✓ **Yes**

Failback strategies: Managed Instance -> SQL Server



Category	Method	Supported ?
Backup & Restore	• **Restore backups**	✓ **Yes** (backup to URL, Backups are SQL Server 2022 compatible)
	• **Log shipping**	X **No** (no access to backup storage)
Logical replication	• **Transactional replication**	✓ **Yes** (MI can be publisher and subscriber)
	• **ADF (Azure Data Factory – ETL service)** • **SSIS, or Custom ETL** • **Generate Schema and data scripts in SSMS**	✓ **Yes**
Always On	• **Availability Groups**	X **No**
	• **Distributed Availability Groups**	✓ **Yes** (using MI link)
Remote access	• **Linked servers**	✓ **Yes**

Failback strategies: Azure SQL DB -> SQL Server



Category	Method	Supported ?
Backup & Restore	• **Restore backups**	~ **Limited** export to bacpac – Recommended Smart Bulk Copy
	• **Log shipping**	**X No** (no access to backup storage)
Logical replication	• **Transactional replication**	**X No** (subscriber only)
	• **ADF (Azure Data Factory – ETL service)** • **SSIS, or Custom ETL** • **Generate Schema and data scripts in SSMS**	✓ **Yes**
Always On	• **Availability Groups**	**X No**
	• **Distributed Availability Groups**	**X No**
Remote access	• **Linked servers**	✓ **Yes** (SQL Server can read from Azure SQL DB)

Learn more

Basics	Get started today with Azure SQL DB's free offer: aka.ms/SQLFreeOffer Azure SQL DB Essentials: aka.ms/AzureSQLDBEssentials
AI and Azure SQL DB	Intelligent applications with Azure SQL Database: https://aka.ms/sqlai and aka.ms/sqlaisamples Generative AI with Azure SQL hands-on lab: https://github.com/AzureSQLDB/GenAILab
Azure SQL DB Hyperscale	Copilot in SQL Server Management Studio: http://aka.ms/ssmscopilot Hyperscale overview: aka.ms/HS Hyperscale serverless: aka.ms/SQLDBserverless Hyperscale elastic pools: aka.ms/hyperscalepools
Azure SQL blogs and videos	aka.ms/AzureSQLBlog aka.ms/AzureSQLDevBlog aka.ms/AzureSQLyt

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Get 750 vCore hours of compute and 32 GB of storage every month!

https://aka.ms/freesqlMI



Try SQL Server migration in Azure Arc

https://aka.ms/arc-migrations-docs

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- Security, governance and responsible AI



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Thank you!

Session feedback code

