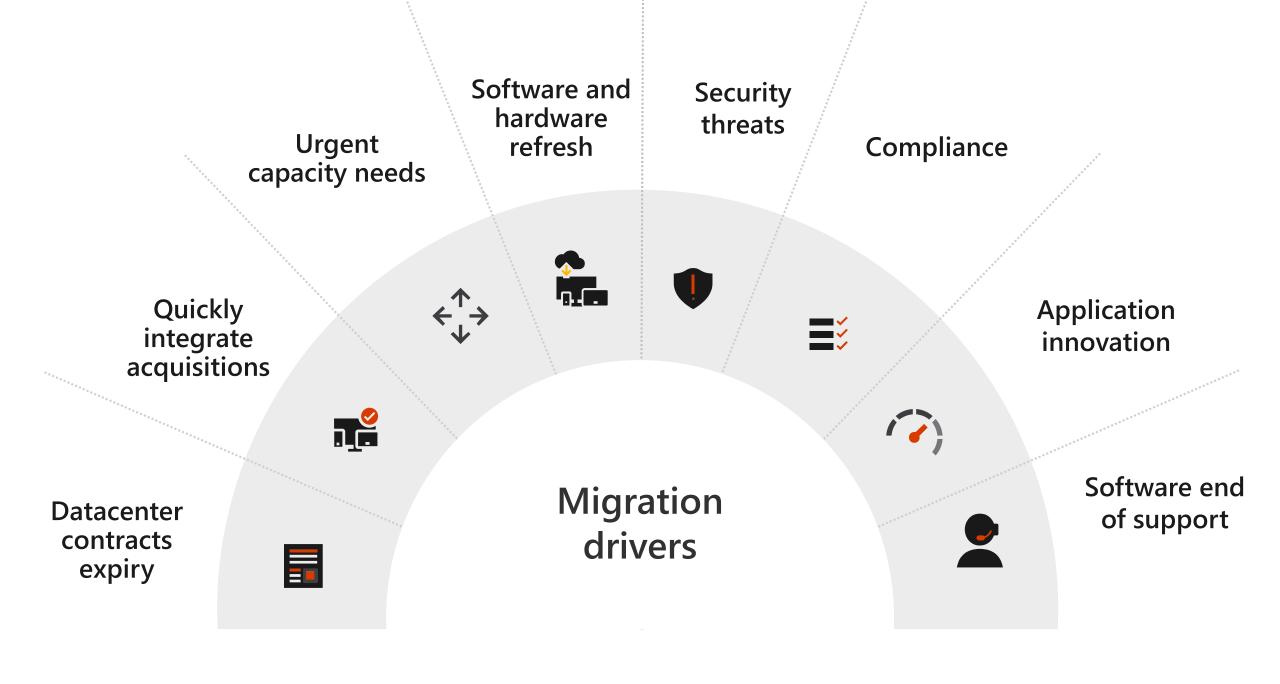


Moving your Database to Azure

Thomas Skytte
Cloud Solution Architect
Data & Al
thomas.skytte@microsoft.com





Azure capabilities across apps, data, and infrastructure



Azure Migrate



Azure App Services



Azure Database for PostgreSQL, MySQL



Azure Site Recovery



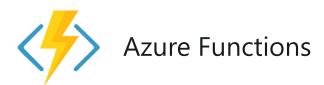
Linux Support



Azure SQL database managed instance



Azure Database Migration Service





Azure Database Migration Service

	SQL	SOL			My	
	Azure SQL DB	Azure SQL DB MI	Azure SQL VM	Azure Cosmos DB	Azure DB for MySQL	Azure DB for PostgreSQL
SQL Server	~	/	\			
AWS SQL	/	/				
Oracle	/	/	\			~
MongoDB				/		
MySQL					/	
AWS MySQL					/	
VS PostgreSQL						/
PostgreSQL						/

Stand: 08/27/2019

Azure Data Box

General Availability



Data Box Disk (40 TB)



Data Box (100 TB)



Data Box Heavy (1 PB)



Data Box Edge



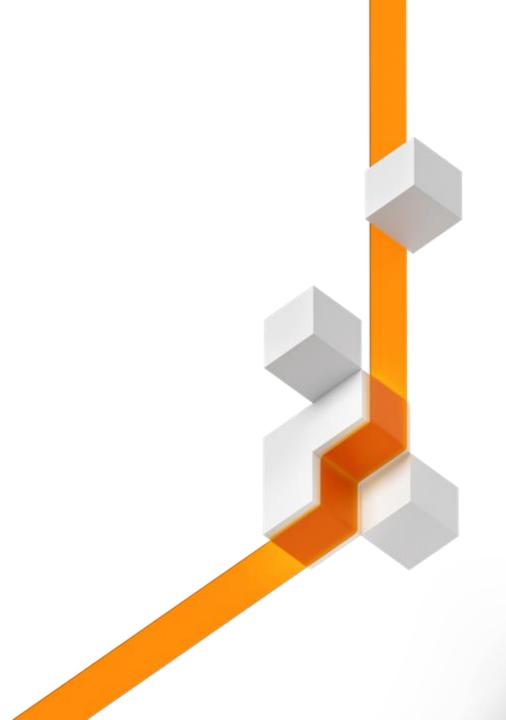
Data Box Gateway

Provides additional data migration options

Migrate large amounts of data quickly and securely Create a link between your premises and Azure storage

Tailwind Traders





Tailwind Traders acquires Northwind





REDMOND, WA Tailwind Traders, Inc announced that it has agreed to acquire Northwind Traders, the venerable "old guard" international foods company, in an effort to bolster its virtual hardware offerings with some international culinary flare.

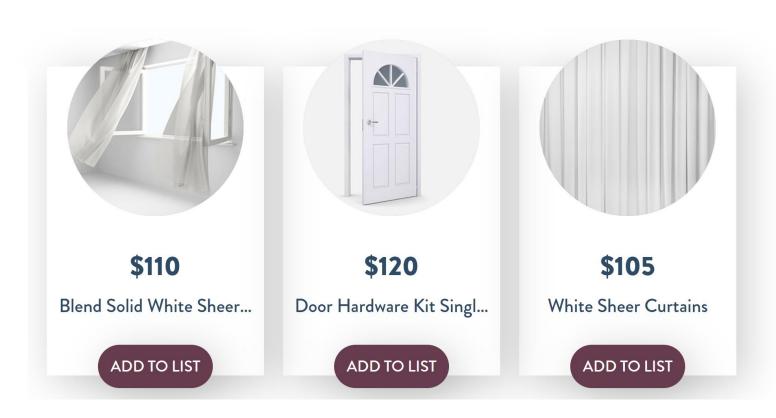
A rich catalog...



HOME APPLIANCES SINK HOME GARDENING DECOR KITCHEN ACCESSORIES DIY TOOLS

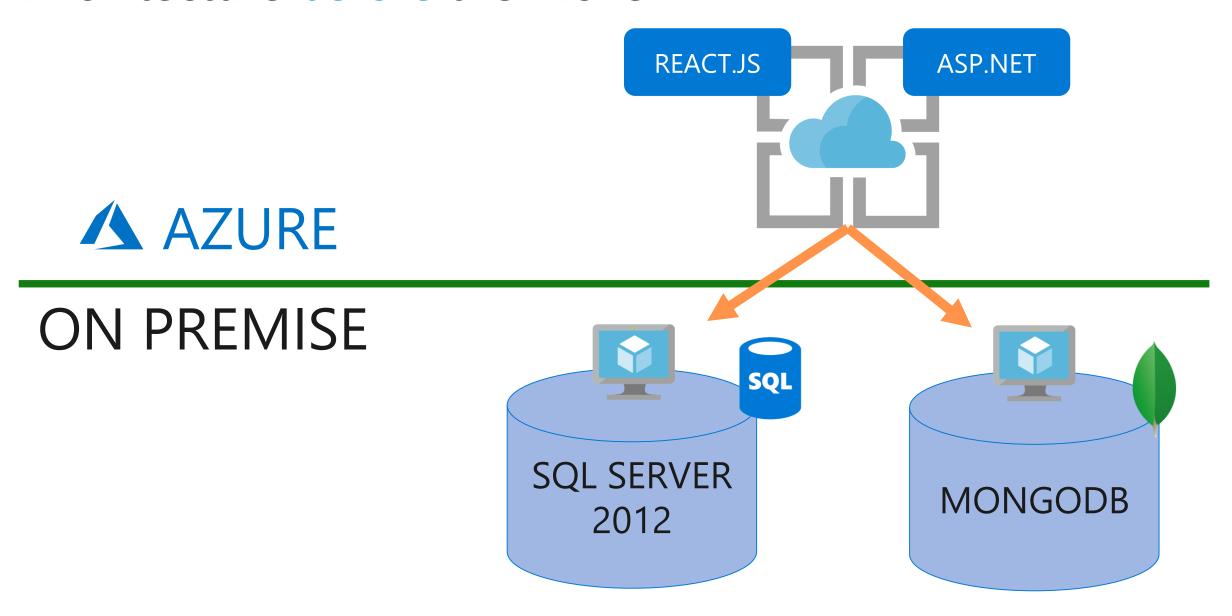
upload new photo



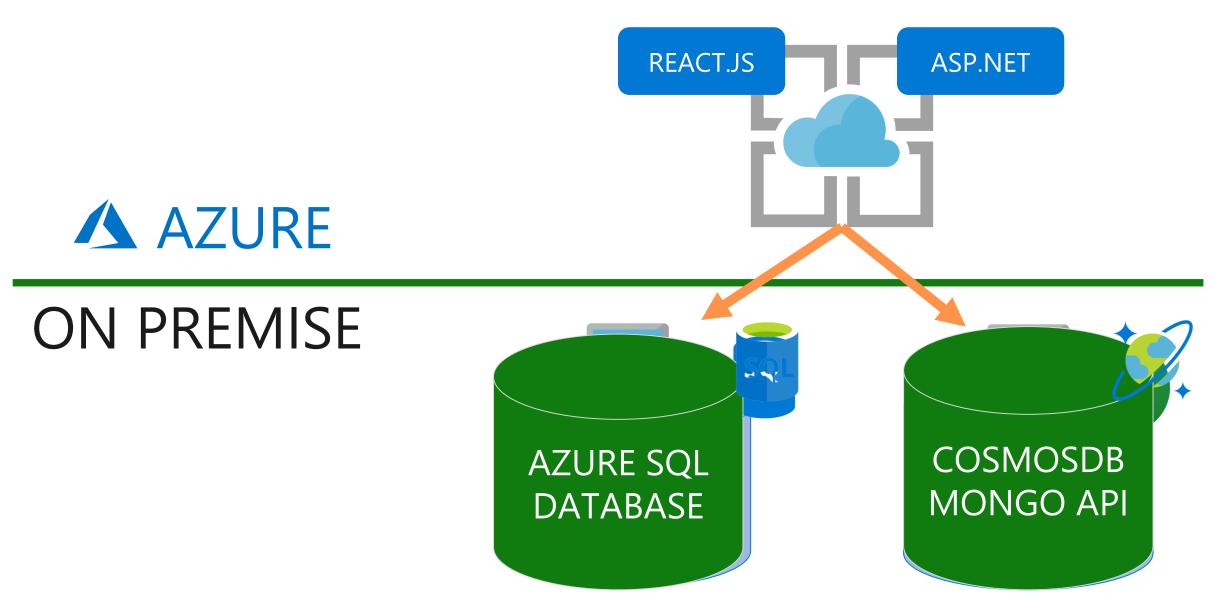


Login

Architecture before the move



Architecture after the move



NoSQL with CosmosDB



Azure Cosmos DB

Globally distributed database service







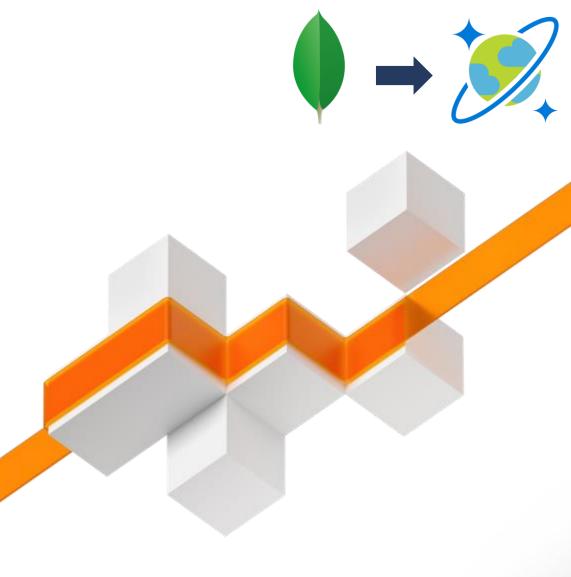
Azure Cosmos DB

..... more coming soon



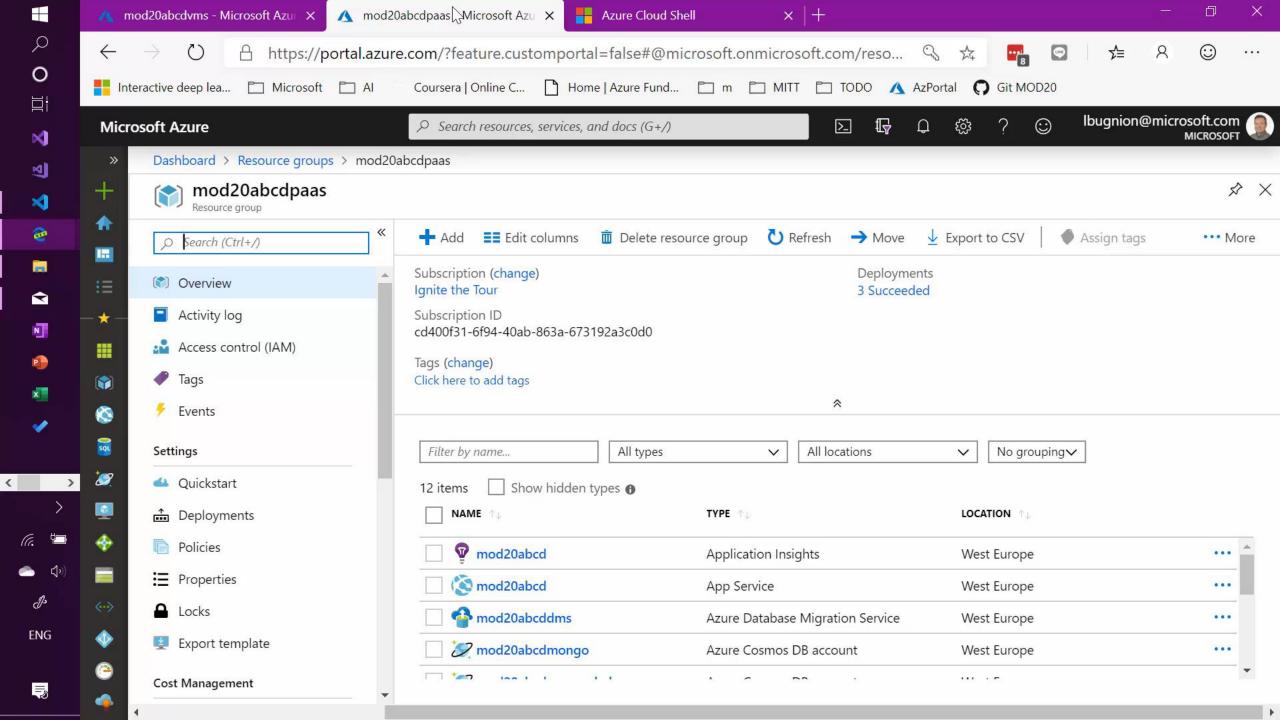
Global distribution Elastic scale out Guaranteed low latency

Five consistency models Comprehensive SLAs



Demo

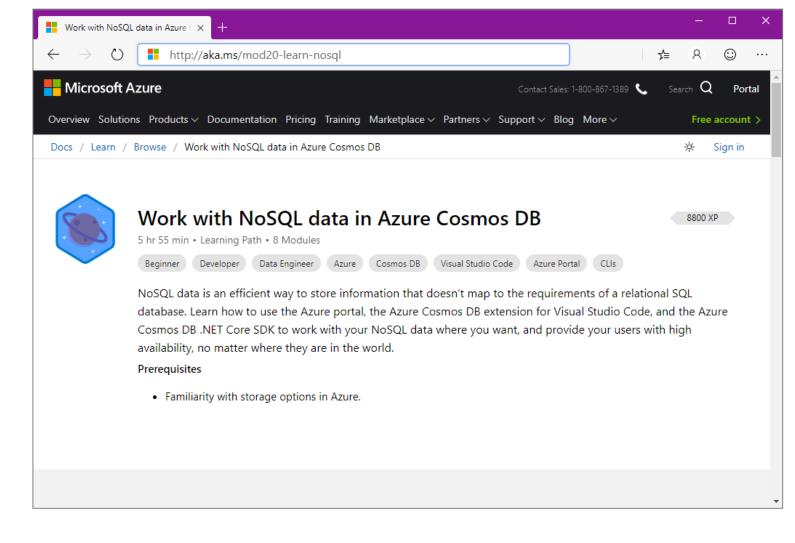
Migrating from MongoDB to CosmosDB



/MS Learn alert

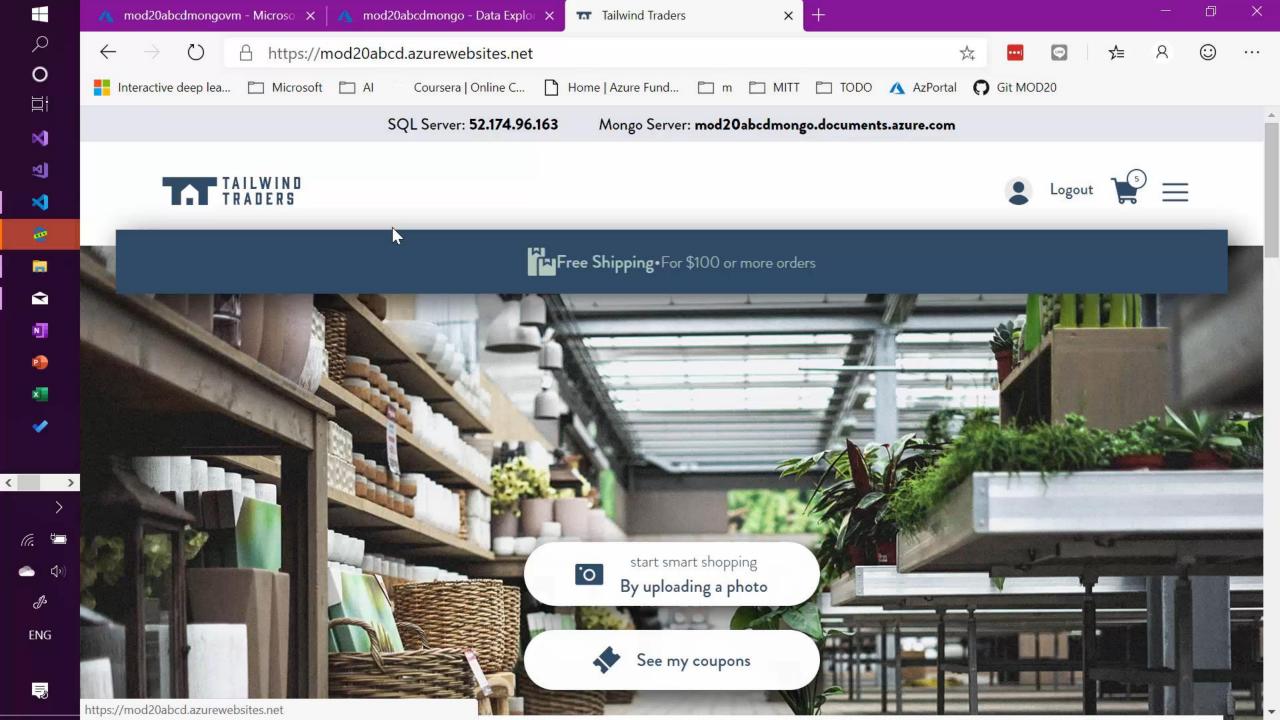
Complete interactive learning exercises, watch videos, and practice and apply your new skills.

aka.ms/mod20-learn-nosql

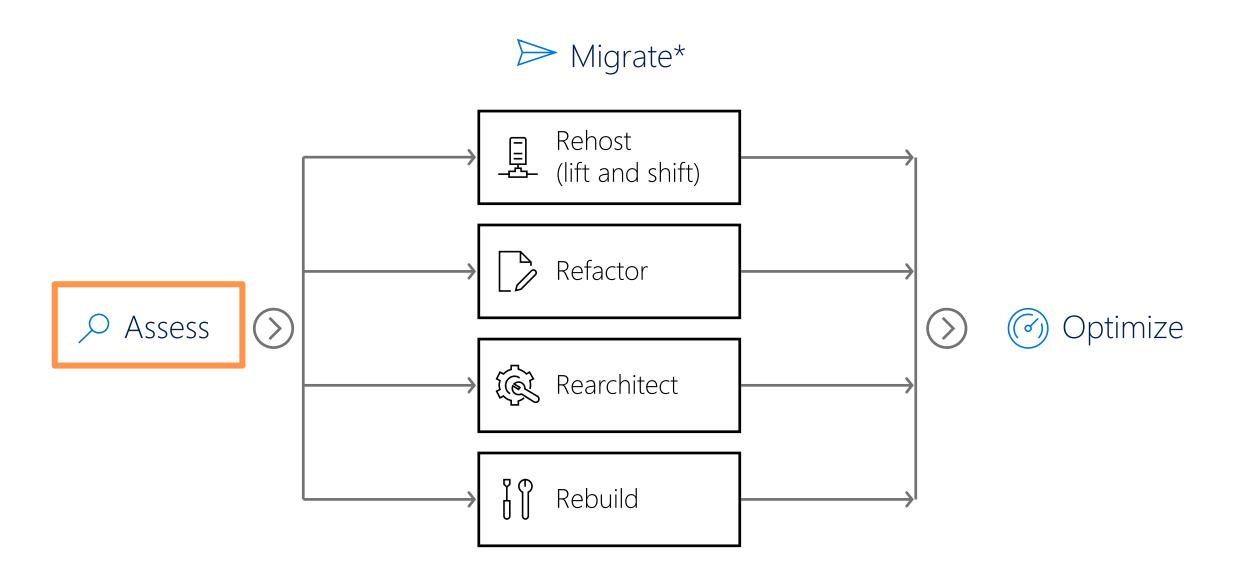




Relational data with Azure SQL



How to easily migrate and get benefits of cloud?







Demo

Migrating SQL Server to Azure SQL Database (Part 1)

Azure SQL Database momentum

5.8 million databases

70 PB total size

550k subscriptions

3 trillion batch requests per day 37_K

databases migrated via **Database Migration Service** 100 million

queries analyzed per hour





























SQL Managed Instance



Key takeaways

Generally Available

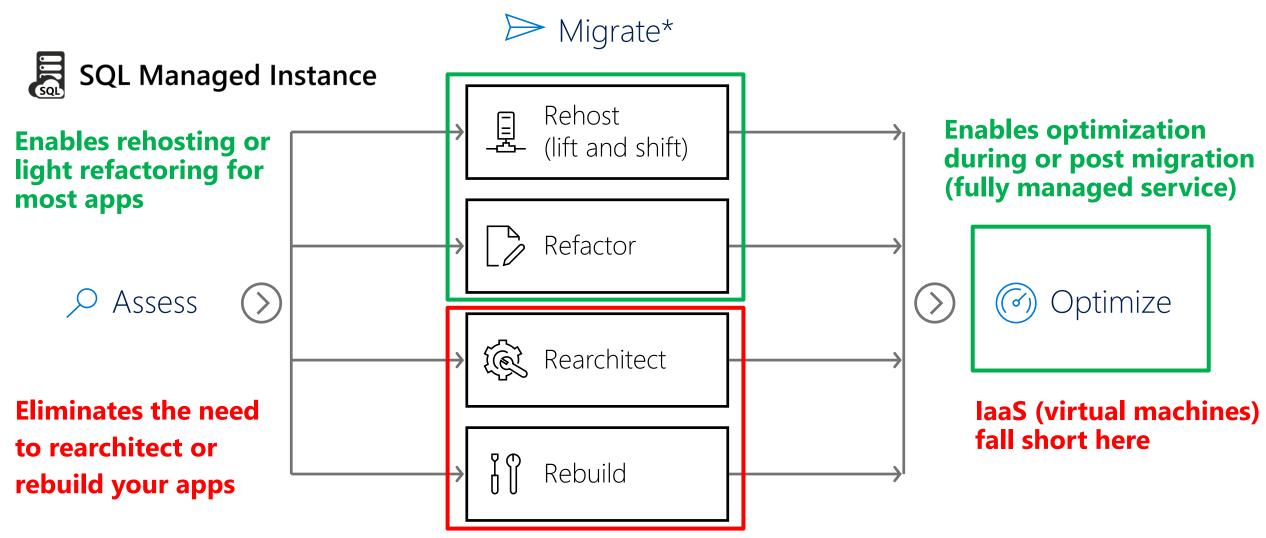
Enterprise-ready

Easily migrate SQL Server to cloud

All the benefits of a fully-managed service

How to easily migrate and get benefits of cloud?

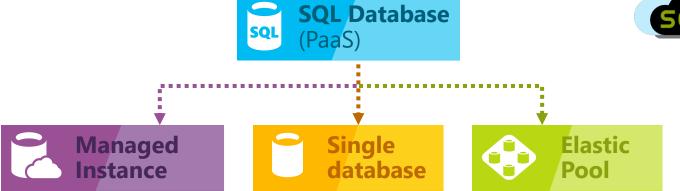




What is SQL Database Managed Instance?

SQL

New deployment option enabling <u>friction-free migration</u> of SQL Server workloads to a <u>fully-managed service</u>



Fully-managed service

- Built on the same infrastructure as
 SQL Database
- Provides the same benefits (PaaS)

SQL Server compatibility

 Fully-fledged SQL instance with nearly 100% compat with on-premise

Full isolation and security

- Contained within your VNet
- Private IP addresses
- Express Route / VPN connectivity

New purchasing options

- Transparent
- Frictionless
- Competitive



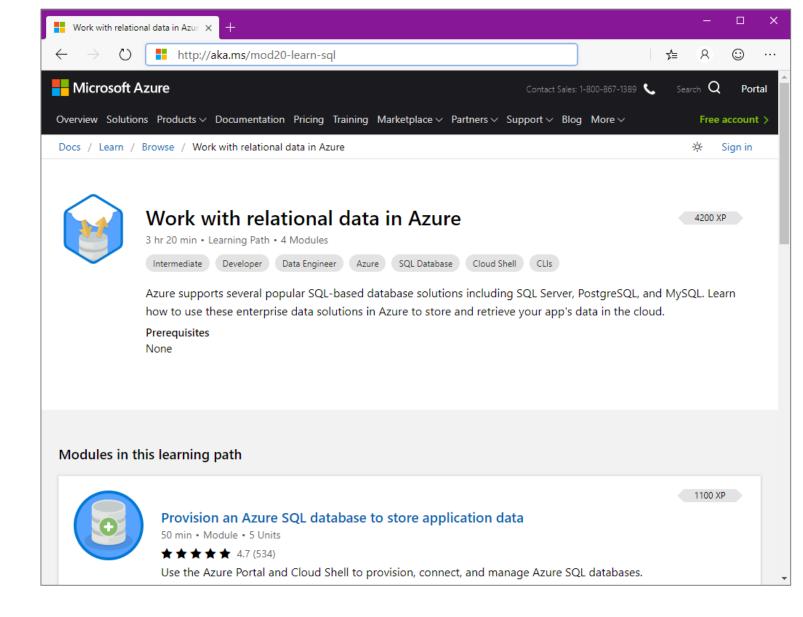
Demo

Migrating SQL Server to Azure SQL Database (Part 2)

/MS Learn alert

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

aka.ms/mod20-learn-sql



Azure Database for open source DBs engines







Fully managed services without changing your applications

Simple and flexible pricing, Language and frameworks of your choice

Automatic backups, patching, built-in monitoring, security

PostgreSQL



The world's most advanced open source relational database



Ranked 2017 and 2018

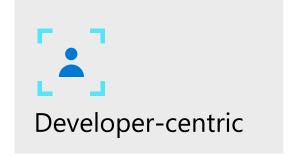
DBMS of the Year

by DB-Engines





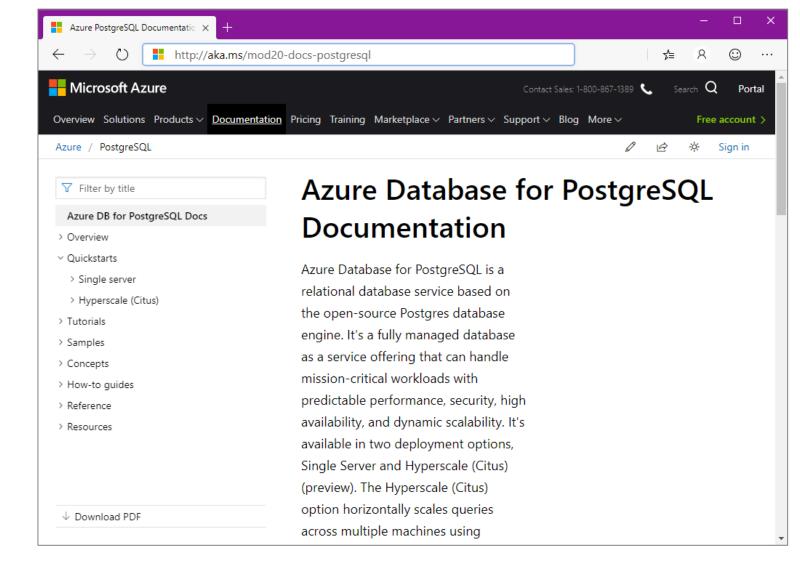




/Docs alert

Explore overviews, tutorials, samples, and more.

aka.ms/mod20-docs-postgresql



There has never been a better time to migrate to Azure

More features than ever



Global, Reliable, Secure

Resources



Resources



Session Resources

aka.ms/MOD20



Session Code on GitHub

aka.ms/MOD20Repo



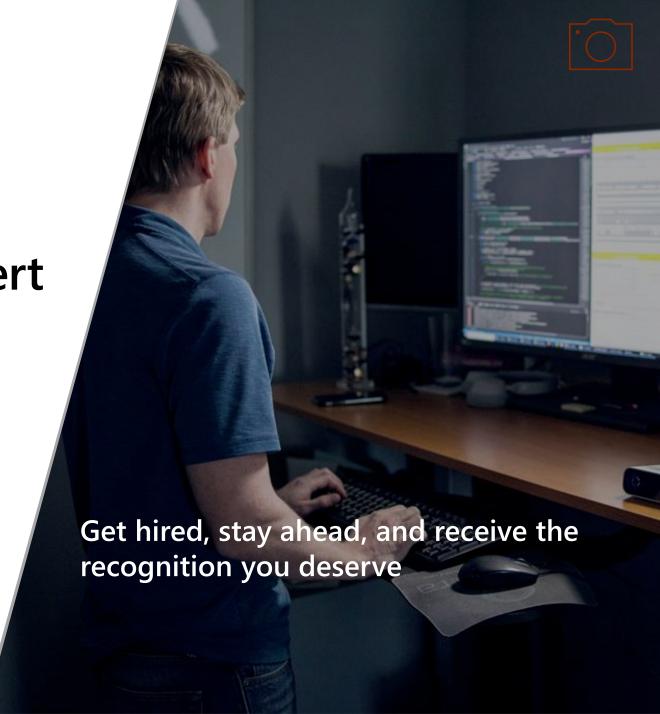
All Event Resources

aka.ms/mymsignitethetour

/Microsoft Certification alert

Microsoft Certified: Azure Data Engineer Associate

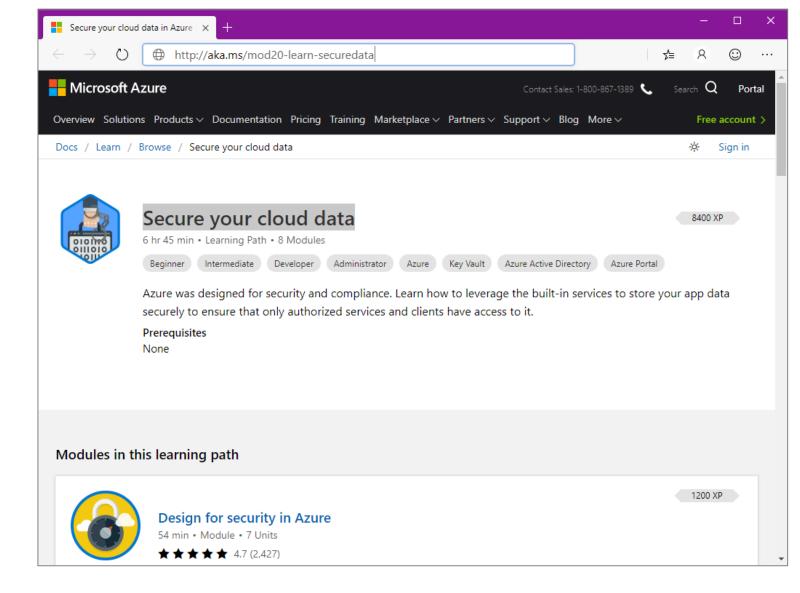
aka.ms/DataEngineerCert



/MS Learn alert

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

aka.ms/mod20-learn-securedata





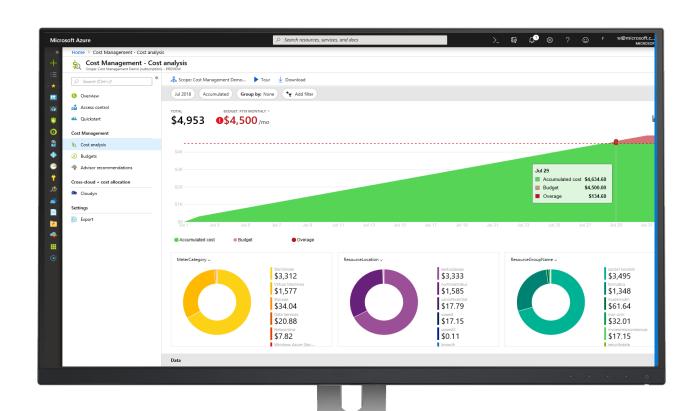
Azure Cost Management

- Unified experience to optimize cloud spends
- Built-in best practice recommendations (e.g., turn off idle VMs)

Use Azure Hybrid Benefit and Azure Reserved Instances during or after migration

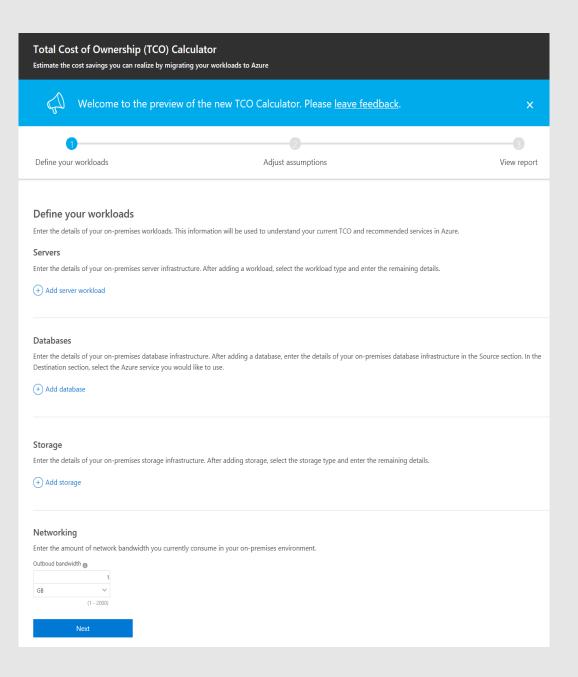
Modernize for longer term value





Build your case: Azure Total Cost of Ownership calculator

aka.ms/mod20-tco



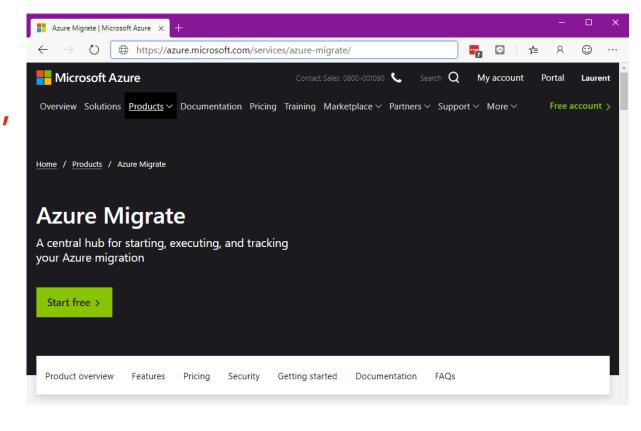
Azure Migrate

A central hub for starting, executing, and tracking your Azure migration

Guidance Migration journey and strategies

Tools Right tools for the job

Partners Migration experts



aka.ms/mod20-migrate







Session Resources

aka.ms/MOD20



Session Code on GitHub

aka.ms/MOD20Repo



All Event Resources

aka.ms/mymsignitethetour

Get Certified

Azure Data Engineer Associate: aka.ms/DataEngineerCert

