

Migrating to Azure SQL: A Practical Guide for Cloud Migration Success



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Director & Global SQL
Server Practice Leader
@ Datavail



- ✓ Azure Expertise & Cloud Migration
- ✓ 10+ years of Azure expertise. Helping 100+ customers with their cloud migrations to Azure SQL.
- ✓ JP is the author of “Migrating to Azure SQL: A Practical Hands-on Guide for Cloud Migration Success,” along with many white papers and blogs on Datavail.com

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Put the SQL Pieces Together

Fill out your session evaluation
form for a chance to win a
LEGO set.



Datavail at a Glance

Delivering a superior approach to leveraging data through application of a tech-enabled global delivery model & deep specialization in databases, data management, and application services.



18⁺
Years

building and operating
mission critical data
and application systems



\$25^M
Invested

in IP that improves the
service experience and
drives efficiency



Global Team

1,300 Employees

staffed 24x7, resolving over
2,000,000 incidents per year



Why Datavail & Microsoft Azure?

Solutions Partner

- ✓ Data & AI
- ✓ Digital & App Innovation
- ✓ Infrastructure

Microsoft Preferred Partner

- ✓ Microsoft Fabric Featured Partner
- ✓ Oracle to Azure Migration & Modernization
- ✓ PostgreSQL Azure Migrations, Apps, & AI

Microsoft Specializations

- ✓ Migrate Enterprise Apps to Microsoft Azure
- ✓ Analytics on Azure
- ✓ Infra and Database Migration to Azure (2025)
- ✓ Data Warehouse Migration (2025)
- ✓ Kubernetes on Azure (Future)
- ✓ DevOps with GitHub on Azure (Future)

Azure Marketplace Offerings

- ✓ [Oracle on Azure Assessment](#)
- ✓ [Azure Data Lake Roadmap & Implementation](#)
- ✓ [Azure Synapse Implementation](#)
- ✓ [SQL Server Migrations to Azure](#)
- ✓ [Cassandra to Cosmos DB Assessment](#)
- ✓ [Oracle to Azure Migration](#)
- ✓ [MongoDB to Azure Cosmos DB Migration](#)
- ✓ MySQL [Assessment](#) & [Implementation](#)
- ✓ [Guidewire CDA Connector for Azure](#)

Managed Partner (Growth)

- ✓ Funding Programs - ECIF and AMM & Azure Innovate Eligible
- ✓ ISD (MCS) Approved Sub-Contractor – Commercial & Federal
- ✓ Co-sell Ready Program

We've Done this Before...

1000+

Consultants focused on Cloud deployments and managed services

18+

Years of Data Platform & AppDev Experience

10+

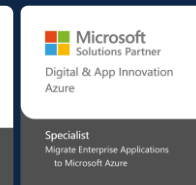
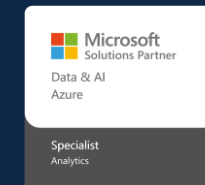
Years Cloud Experience

500+

Customers with average lifespan of 7+ years

550+

Microsoft consultant certifications



Agenda

- ✓ Introduction to Cloud Computing and Azure SQL
- ✓ Microsoft Azure's Global Infrastructure
- ✓ Purchasing Models in Azure SQL
- ✓ Service Tiers in Azure SQL
- ✓ Azure SQL Deployment Options
- ✓ Migration Journey to Azure SQL
- ✓ Azure Storage for SQL Data Pros
- ✓ Azure Database Migration Service (DMS)
- ✓ Azure SQL Migration Extension for Azure Data Studio

Target Audience, Prerequisites, and Q&A

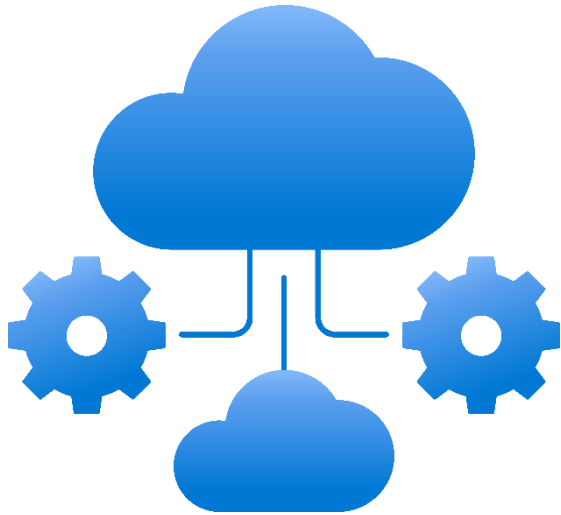


Level: 100 to 200



Prerequisites: Cloud experience is helpful but not required.

Introduction to Cloud Computing and Azure SQL



Cloud Computing



Microsoft Azure

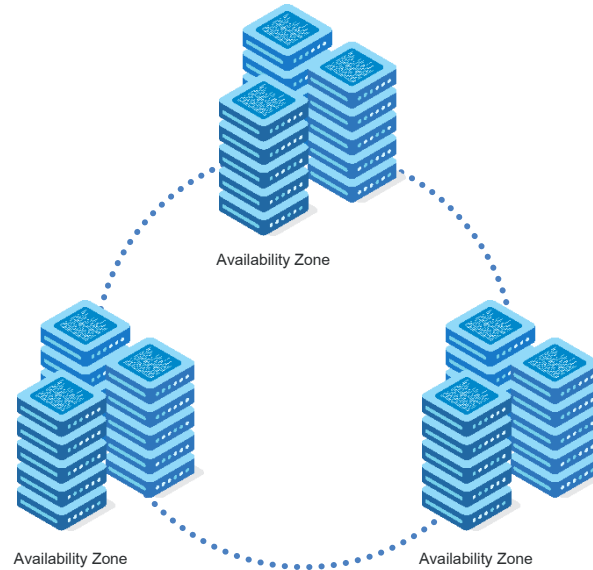


Azure SQL

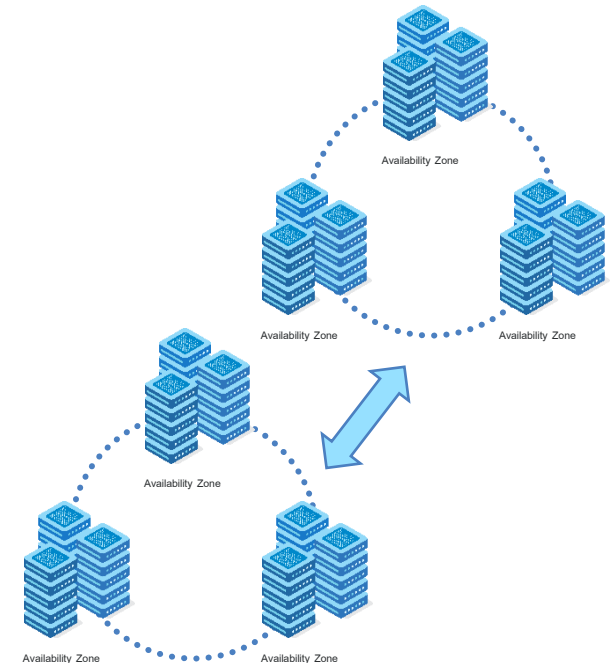
Microsoft Azure's Global Infrastructure



Azure Data Center



Azure Region



Azure Region Pair

Purchasing Models in Azure SQL

DTU



vCore

Service Tiers in Azure SQL - vCore

General Purpose

(Balanced Cost/
Performance)

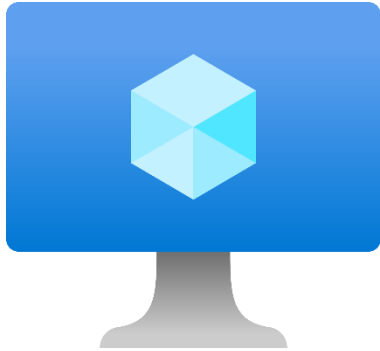
Business Critical

(High Performance,
HA)

Hyperscale

(Scales Storage and
Compute
Independently)

Azure SQL Deployment Options



SQL Virtual Machines



Managed Instances



Databases

Demo – Deploying Azure SQL Database – Step by Step



1. Create an Azure SQL Database
2. Connect to the Azure SQL Database from on-prem.

Migration Journey to Azure SQL



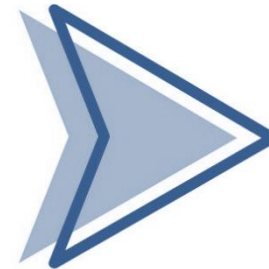
1. Discover



2. Assess



3. Migrate

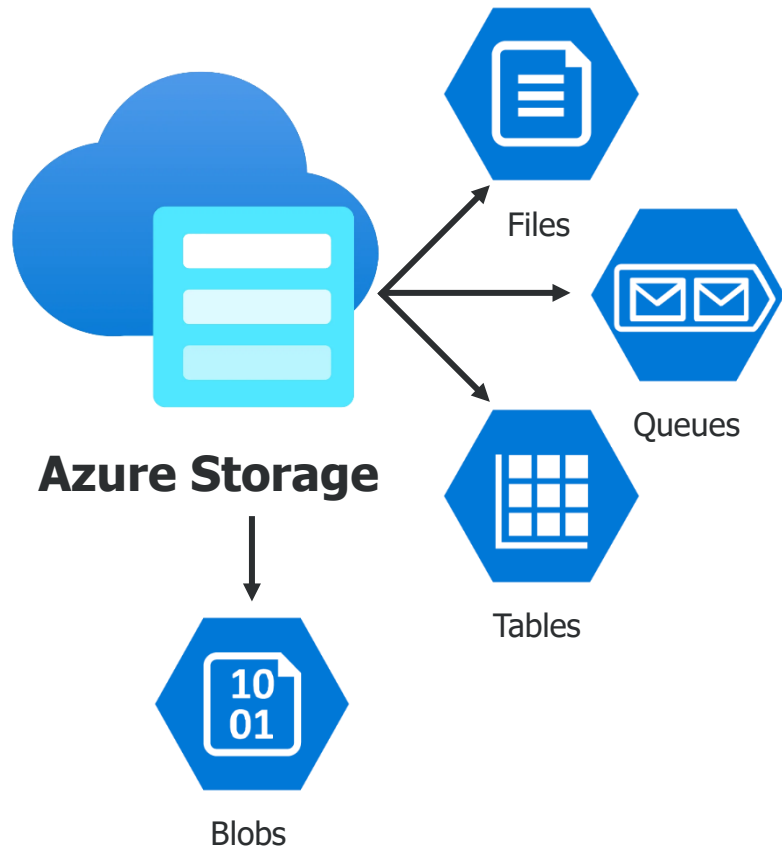


4. Cutover



5. Optimize

Azure Storage for SQL Data Pros



Blob Container



SAS

Securing Access

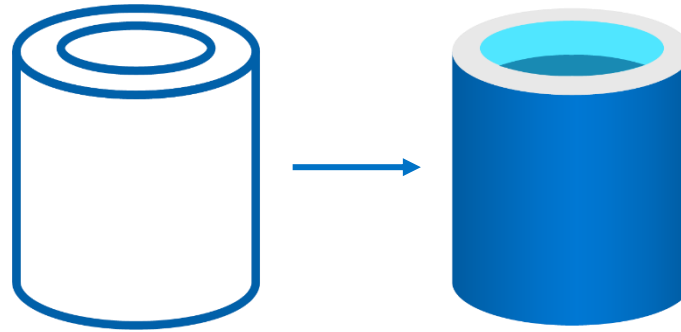
Azure Storage for SQL Data Pros - Demo



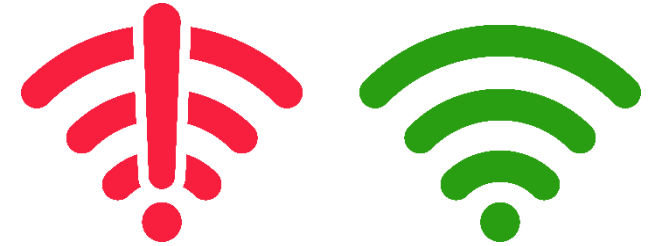
1. Create an Azure Storage Account
2. Create a Blob Container
3. Backup an on-premises database to the Azure Blob Container



**Azure Database
Migration Service
(DMS)**



**Homogeneous vs
Heterogeneous
Migrations**



**Online and Offline
Migrations**

Azure SQL Migration Extension for Azure Data Studio

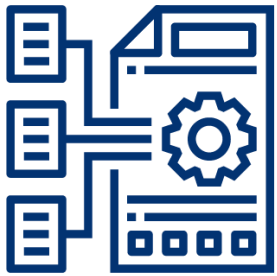


Azure Data Studio



**Azure SQL Migration
extension for Azure
Data Studio**

Azure SQL Migration Extension for Azure Data Studio – The Processes



**Collect
Performance**



Save Results



**Analyze and
Recommended
SKUs**



**Reviews
and Address
Findings**



**Execute and
Migration**

Azure SQL Migration Extension for Azure Data Studio - Demo



1. Collect Performance
2. Save Results
3. Analyze and Recommend the SKUs
4. Review and Address Findings
5. Execute the Migration



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Thank You



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