

Module Completion & Exam Hints

Databases in Microsoft Azure

- ❑ Azure Databases briefly covered in this Module:
 - ❑ Azure Cosmos Database
 - ❑ Azure SQL Database
 - ❑ Azure Database for MySQL
 - ❑ Azure Database for PostgreSQL
 - ❑ Azure Database Migration Service



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Azure Cosmos Database

Azure Cosmos Database Introduction

- ❑ Azure Cosmos DB is Microsoft's proprietary globally-distributed, multi-model database service "for managing data at planet-scale" (May 2017)
- ❑ It is schema-agnostic, horizontally scalable and generally classified as a NoSQL database
- ❑ It's just a document DB
 - ❑ Document format JSON (JavaScript Object Notation)



Azure Cosmos DB

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Azure SQL Database

Azure SQL Database Overview

- ❑ Azure SQL DB is a general-purpose relational database-as-a-service (DBaaS) based on the latest stable version of Microsoft SQL Server Database engine
- ❑ Provided as a managed service, you can create a highly available and high-performance data storage layer for the applications and solutions in Azure



Azure SQL DB

Azure SQL Database Deployment Models

- ❑ Azure SQL DB provides three deployment models:

- ❑ Single

- ❑ Fully managed, isolated database

- ❑ Elastic Pool

- ❑ Collection of single databases with a shared set of resources

- ❑ Managed instance

- ❑ Fully managed instance of SQL Server

- ❑ Full SQL server capabilities (vs. Single)



Azure SQL DB

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Azure Database for MySQL Basics 101

Azure Database for MySQL Overview

- ❑ Azure Database for MySQL is a relational database service based on the MySQL Community Edition database engine (v5.6, v5.7 and v8.0)
- ❑ What are the key benefits ?
 - ❑ Built-in high availability
 - ❑ Pay-as-you-go pricing
 - ❑ Scaling in just seconds
 - ❑ Built-in security for data at-rest and in-transit
 - ❑ Automatic bkp and point-in-time-restore up to 35 days
 - ❑ Enterprise-grade security and compliance



Azure MySQL DB

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Azure Database for PostgreSQL Basics 101

Azure Database for PostgreSQL Overview

- ❑ Azure Database for PostgreSQL is a relational database service based on the community version of open-source PostgreSQL database engine
- ❑ Currently two deployment options are available:
 - ❑ Single Server
 - ❑ Vertical scaling
 - ❑ Hyperscale
 - ❑ Horizontal scaling



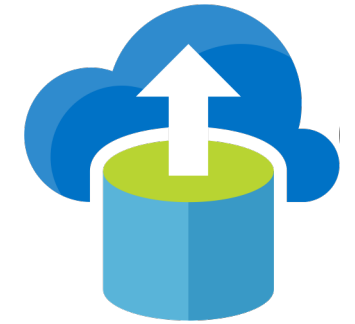
Azure PostgreSQL

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Azure Database Migration Service

Azure DMS Overview

- ❑ Azure Database Migration Service is a fully managed service designed to enable seamless migrations from multiple database sources to Azure Cloud
- ❑ Azure Database Migration Service is designed to support different migration scenarios for both offline (one-time) and online (continuous sync) migrations



Azure DMS

Azure Databases - Quiz



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Thank you