

Class 50 Azure SQL Database Migration

IAAS(Infrastructure as a service)

PAAS(Platform as a service)

SAAS(Software as a service)

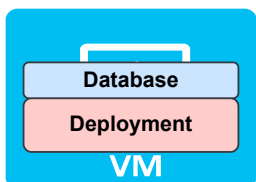
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SERVER

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Office 365



DMA TOOL



Paas (Database)

🚀 Step-by-Step: Migrate SQL Server to Azure SQL Database

1. Pre-Migration Assessment

Before initiating the migration, it's crucial to assess your existing SQL Server environment to identify any potential issues.

* **Install Data Migration Assistant (DMA):**

* Download and install the [Data Migration Assistant](https://learn.microsoft.com/en-us/sql/dma/dma-overview).

* **Run Assessment:**

- * Launch DMA and create a new project.
 - * Select **Assessment** as the project type.
 - * Connect to your source SQL Server instance.
 - * Choose the databases you intend to migrate.
- * Start the assessment to identify compatibility issues and receive recommendations.([Medium][2], [Microsoft Learn][3])

2. Set Up Azure SQL Database

* **Create Azure SQL Database:**

- * Sign in to the [Azure Portal](https://portal.azure.com).
- * Navigate to **Create a resource** > **Databases** > **SQL Database**.
- * Fill in the necessary details like database name, server, and pricing tier.

3. Install Azure Data Studio and Migration Extension

* **Install Azure Data Studio:**

* Download and install [Azure Data Studio](https://learn.microsoft.com/en-us/sql/azure-data-studio/download-azure-data-studio).

* **Install Azure SQL Migration Extension:**

- * Open Azure Data Studio.
 - * Go to **Extensions** (Ctrl+Shift+X).
- * Search for **Azure SQL Migration** and install the extension.([Microsoft Learning][4])

4. Launch Migration Wizard

* **Connect to Source SQL Server:**

* In Azure Data Studio, connect to your on-premises SQL Server instance.([Microsoft Learn][3])

* **Start Migration Wizard:**

- * Right-click on the server name and select **Manage**.
 - * In the dashboard, click on **Azure SQL Migration**.
- * Launch the **Migrate to Azure SQL** wizard.([Microsoft Learning][4])

5. Configure Migration Settings

* **Select Databases:**

* Choose the databases you want to migrate.([Microsoft Learn][5])

* **Assessment and SKU Recommendations:**

* The wizard will assess the selected databases and provide SKU recommendations for Azure SQL Database.([Microsoft Learning][4])

* **Select Target Azure SQL Database:**

- * Sign in to your Azure account within the wizard.
- * Select the target Azure SQL Database instance.([Microsoft Learn][3])

* **Azure Database Migration Service (DMS):**

- * If you haven't already, create a new DMS instance.
- * Provide necessary details like service name, subscription, resource group, and location.

6. Perform Migration

* **Schema and Data Migration:**

- * Choose to migrate both schema and data.
 - * Select the tables you wish to migrate.
- * Run validation to ensure readiness.([Microsoft Learn][3], [Microsoft Learning][4])

* **Start Migration:**

- * Review the summary and start the migration process.
- * Monitor the migration progress within Azure Data Studio or the Azure Portal.([Microsoft Learning][4])

7. Post-Migration Steps

* **Validation:**

* Once migration is complete, validate the data and schema in the Azure SQL Database.([Microsoft Learn][6])

* **Update Connection Strings:**

* Update your applications to connect to the new Azure SQL Database.([SQL Shack][1])

* **Monitor Performance:**

* Use Azure's monitoring tools to keep an eye on performance and make necessary adjustments.