# Oracle DB to Azure

Customer Account Logo

Presented by:
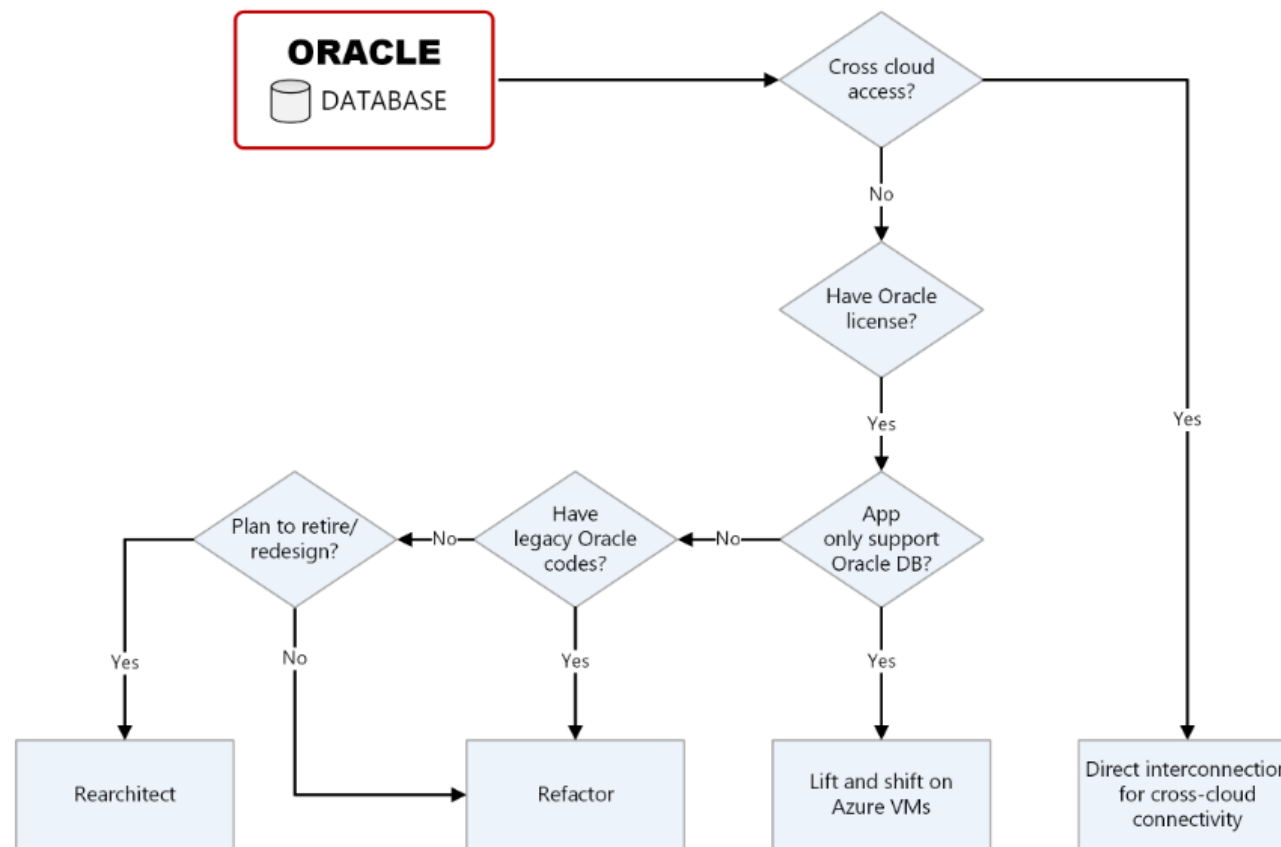
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# Why move off an Oracle database?

- **Cost**: In addition to Oracle license costs, using Oracle databases incurs additional costs for features like partitioning and high availability, and expenses can add up quickly. Open-source Postgres is free to install and use.

- **Flexibility**: For instance Postgres has open-source licensing and is easily available from public cloud providers, including Azure or AWS. With Postgres, you're not at risk of vendor lock-in.

- **Customizability**: Because Postgres is open-source, there are countless extensions and add-ons that can improve database performance markedly, and many of them are free to use. With Oracle, similar features quickly add up in cost.

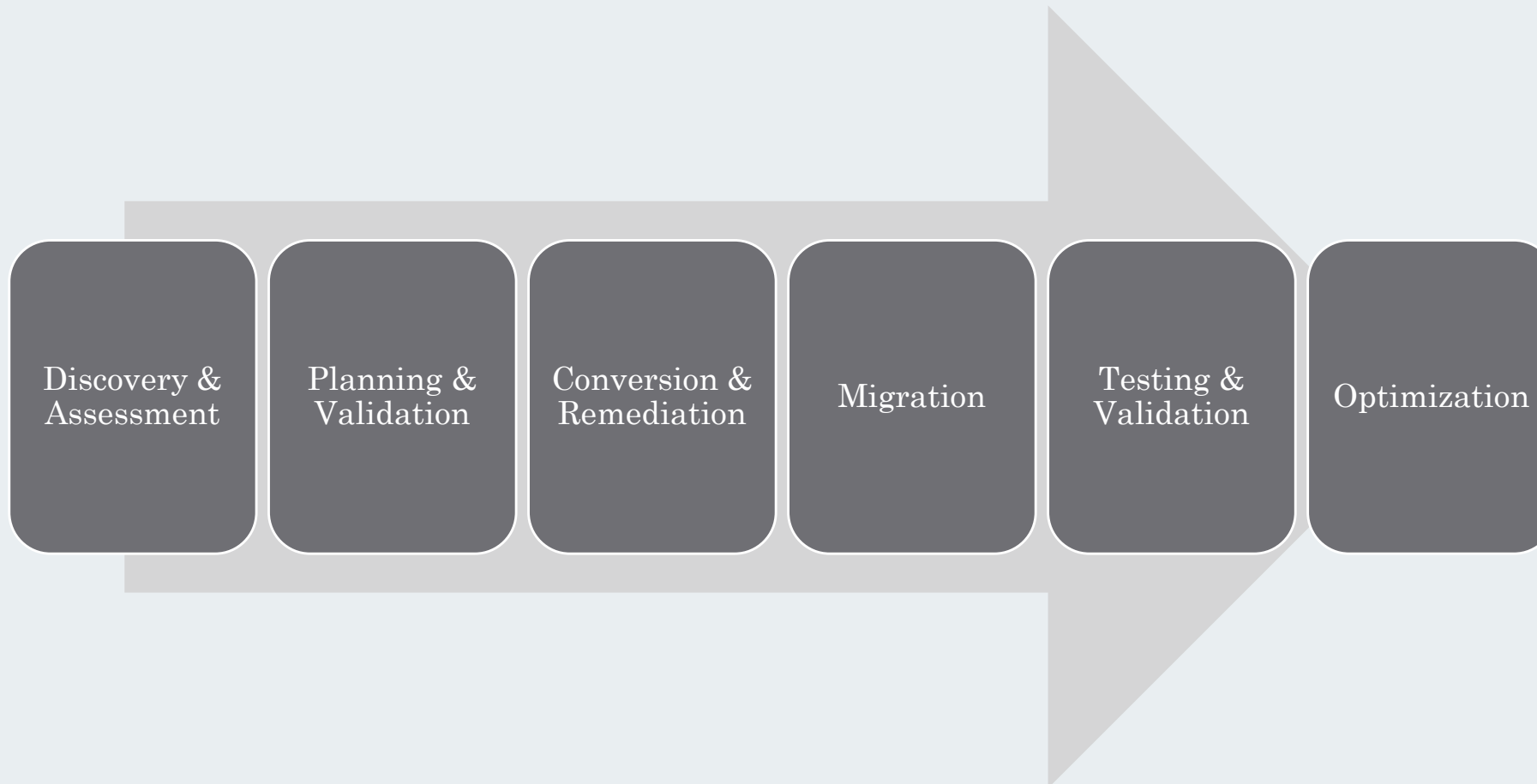# What is the best way to bring you Oracle Database to Azure?

# Whatever your Decision Mazzy Technologies has you covered!

What you do next depends on where you wind up on the decision tree:

- **Cross-cloud connectivity:** If you already use Oracle Cloud Infrastructure (OCI), the easy migration path for you is direct interconnection between Azure and OCI.

- **Lift and shift on Azure VMs:** You can deploy your Oracle databases in Azure based on a "bring your own license" model.

- **Refactor:** You have legacy Oracle code and you prefer using an Azure Managed Service.

- **Rearchitect:** If you're planning to retire your old code and redesign your architecture, Azure SQL Database Managed Instance is a good option.
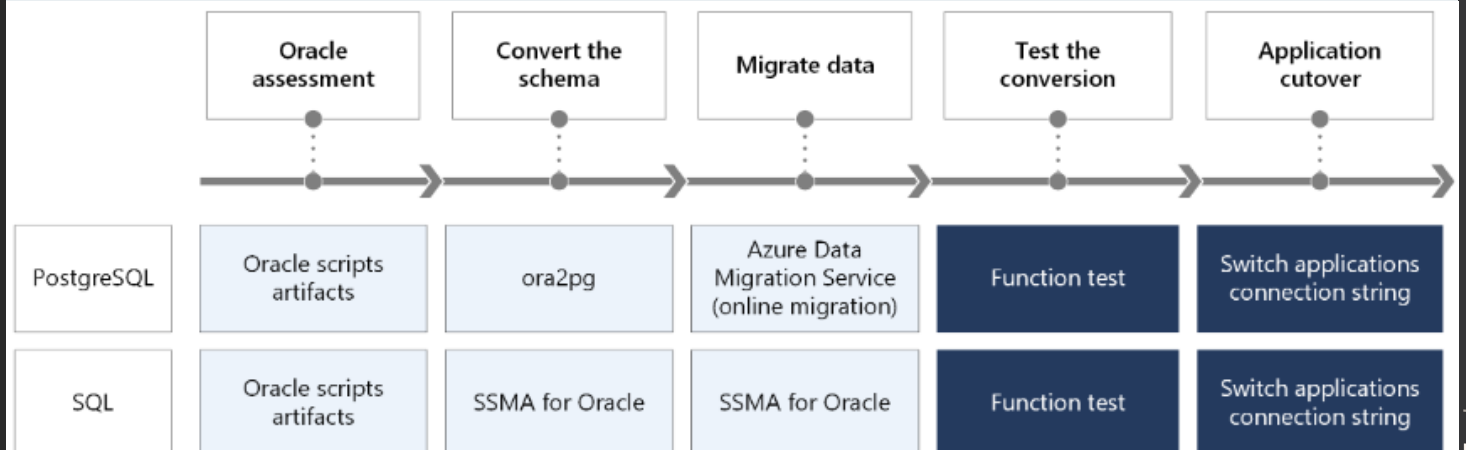
# Oracle DB Migration Process to Azure



Discovery & Assessment | Planning & Validation | Conversion & Remediation | Migration | Testing & Validation | Optimization

This flow chart shows you the steps to move an Oracle database to either a PostgreSQL or a SQL database in Azure. The steps and the details are similar for both migration paths.
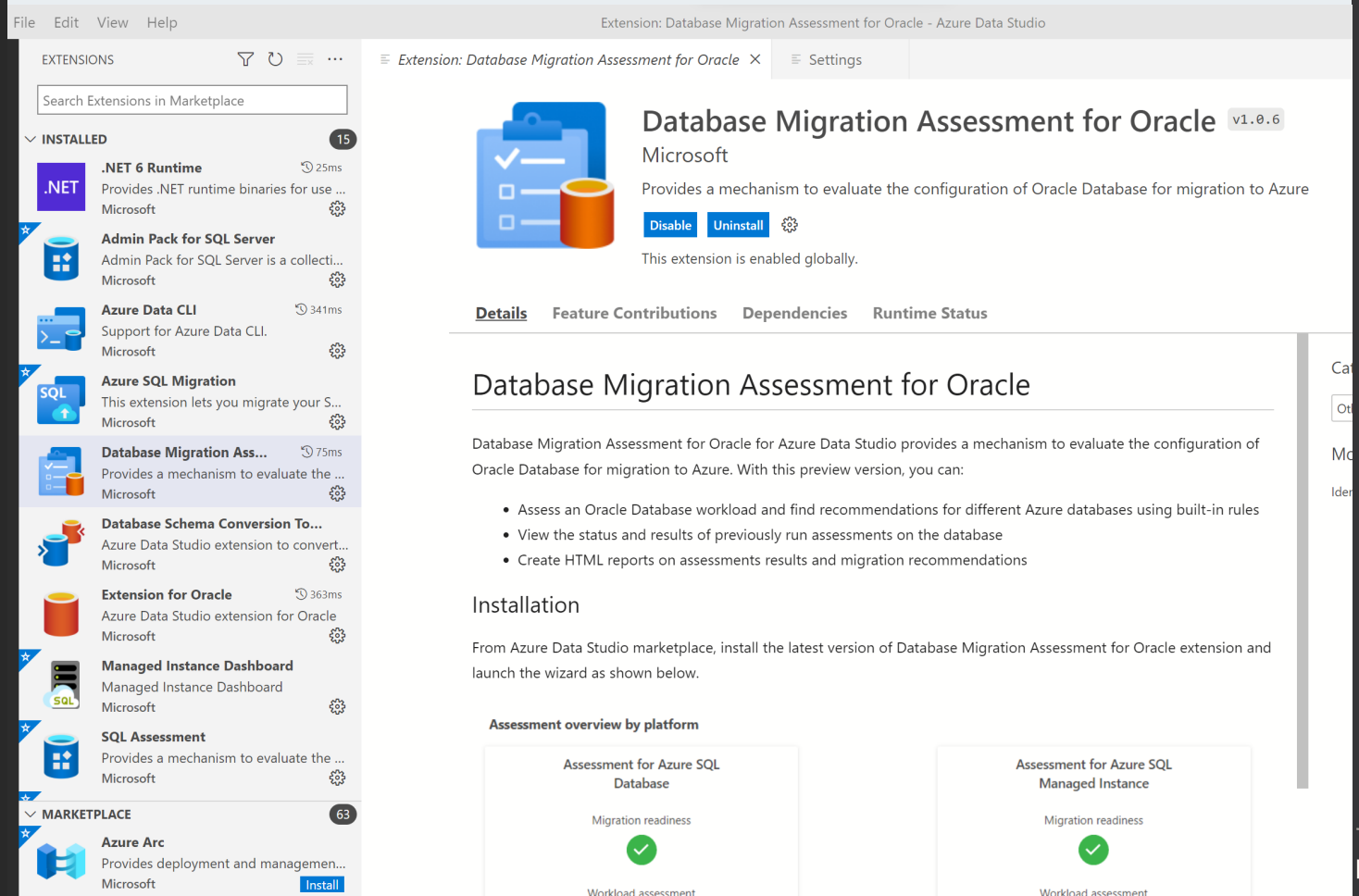
# Workflow

1. Use Oracle script artifacts to evaluate Oracle database.

2. Schema conversion is different for both database types:

   - PostgreSQL: Use ora2pg to convert your Oracle schema.

   - SQL: Use SQL Server Migration Assistant (SSMA) to convert your Oracle schema.

3. Data migration is different for both database types:

   - PostgreSQL: Use Azure Data Migration Service to migrate your Oracle data.

   - SQL: Use SSMA to migrate your Oracle data.

4. Test the conversion using functional tests.

5. Switch the application's connection strings to complete the application cutover.

| | Oracle assessment | Convert the schema | Migrate data | Test the conversion | Application cutover |
|---|---|---|---|---|---|
| PostgreSQL | Oracle scripts artifacts | ora2pg | Azure Data Migration Service (online migration) | Function test | Switch applications connection string |
| SQL | Oracle scripts artifacts | SSMA for Oracle | SSMA for Oracle | Function test | Switch applications connection string |

# Run free Assessment Tools based on Decision Tree

**Database Migration Assessment for Oracle extension in Azure Data Studio:** for Oracle to SQL pre-assessment and workload categorization. If you are in early phase of Oracle to SQL migration and would need to do a high level workload assessment , interested in sizing Azure SQL target for the Oracle workload or understand feature migration parity, try the new extension.

# Free Data Migration Tools

- Snapshot

- Ora2pg

- Others (Full convert, Ispirer)

- Snapshot - Parallel in chunks

- Schema Tables

- Ora2pg, ora_migrator

- EDB Migration Toolkit

- Large table in sets

- EDB dblink_ora module

- Oracle FDW(ora_fdw)

- Change Data Capture

- EDB Replication Server

- Other tools (Oracle GG, DBConvert