KoçSistem
DISCOVER THE FUTURE

Microsoft Azure

Azure Database Service
by KoçSistem

Azure SQL Database is a smart, scalable relational cloud database service that offers up to 212% investment advantage as well as the widest range of SQL Server infrastructure compatibility.

Advantages

- **Smooth database migration at advantageous cost without code changes**
- **Built-in machine learning for maximum performance and safety**
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Database Types Supported by KoçSistem

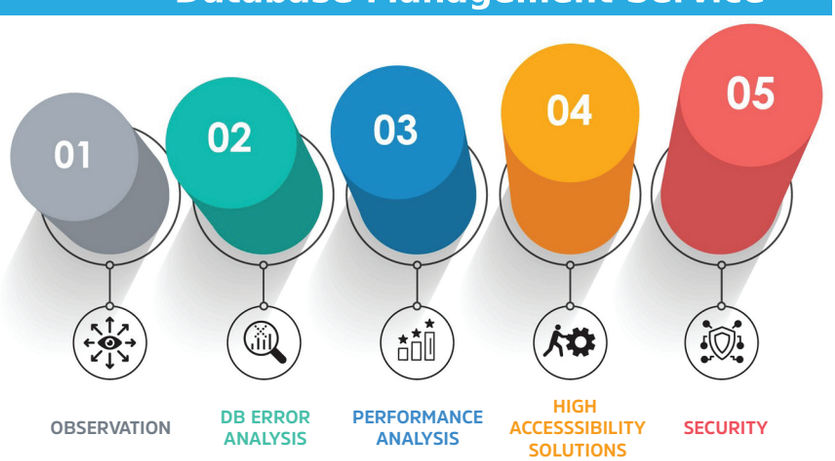
The database types that KoçSistem provides transportation consultancy services and provides end-to-end management services are as follows;

- Azure SQL (PaaS)
- Azure SQL Managed Instance
- Azure Cache for Redis
- Azure Cosmos DB
- Azure SQL Database for MySQL
- Azure SQL Database Postgre SQL

Database Migration Service

- DEFINITION
- ASSESSMENT
- DESIGN
- TRANSITION & VERIFICATION & TEST
- TRANSFER

Database Management Service



Why KoçSistem?

- *Expert technical and migration team*
- *Vast experience in complex Data Center Migration Projects*
- *End-to-end service provider*
- *18 years of managed services experience*
- *250 + Managed Service Customer*

Database Migration

Definition

- *Issues to be defined for project requirements;*
- *Defining the scope of the project*
- *Systems downtime*
- *Determining the transition type*
- *Will consolidation take place at the same time?*
- *Identifying stakeholders*
- *Identification of critical success and acceptance factors*

Assessment

- ***Current Situation Evaluation***
  - *With Microsoft Assessment and Planning Toolkit, current inventory is evaluated with all hardware and Database detail information*
  - *An application and data flow topology (map) containing all integration points are prepared*
  - *All ports connected to the database are evaluated (Applications, Excel links, Reports, ETLs etc.)*
- *Establishing the basics of performance*
- *Identify compatibility issues and inform all stakeholders with Azure Data Migration Service (Azure DMS) and / or Data Migration Assistant (DMA)*
- *Data and schema analysis with SSMA*
- *Azure Data Migration Service (Azure DMS)*
- *Critical grading according to the operation of databases*

Design

- ***Logical preparation of the migration process***
  - *Each hardware finding (phenomenon) is matched with the new environment*
- *Database security approach of the new environment is determined*
- *Functional and performance tests are done*
- *Verification process is designed*
- *Maintenance, high availability and / or disaster recovery structure are determined*
- ***For the transition steps;***
  - *Environment to be transitioned is created*
  - *Transition automation queries are prepared*
  - *Interruption plan is created*
  - *The recovery scenario is determined*

Transition & Verification & Test

- *It is a repetitive process until accuracy and trust are achieved.*
- *The purpose of this stage is to make the necessary improvements by performing the tests before the transition.*

Transfer

- *Preparation of all teams with the necessary information about the work and processes*
- *System shutdown*
- *Implementation of the prepared transition scenario*
- *According to the plan, SSMA and / or Azure DMS can be used in all steps.*

Database Management Service

OBSERVATION

- 24/7 monitoring of the system in line with metrics

DB ERROR ANALYSIS

- Analysis and solution of database errors
- Detailed customer information about the problem

PERFORMANCE ANALYSIS

- Locking detection and sharing of damage queries to the DB with the customer
- Periodic Missing and inefficient indexes report
- Determining the queries causing resource consumption on the server and sharing with the customer

HIGH ACCESSIBILITY SOLUTIONS

- Creating disaster recovery plans
- Criticality level and high availability solution configuration
- Failover tests

SECURITY

- User based authorization
- Monitoring user transactions with Auditing
- Implementation of TLS and TDE encryptions

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