

# KDSSG

# Azure for SQL Server DBA's

# COURSE CURRICULUM

for Seasoned & Experienced SQL Server DBA's

Azure PaaS (SQL DB, Managed Instance, Migrations) +  
Azure IaaS (VMs, Storage, Networking, AlwaysOn AG)

**KDSSG, Center for Excellence**

Phone: 9916799796

Email: [info@kdssg.com](mailto:info@kdssg.com)

16 Years of Commitment

**KDSSG**



## Details:

Thank you for showing interest in KDSSG Center for Excellence for your Azure training requirements. This workshop has been designed for experienced seasoned SQL Server DBAs to cover deep dive learning on Azure Administration and Azure Cloud databases skills from basics to advanced level.

**Course Fee is Rs 28000/-**

Interested attendees can listen to 1-Week of demo classes and to continue will have to enroll for the course. The course duration is for 3 months. Training days will be Weekdays Mon-Fri timings 07:00AM to 08:00AM IST.

## Terms of Service:

- After 1 Week of demo, course fee has to be paid immediately and **ONLY** after which classes will be allowed and respective training material will be provided.
- KDSSG always holds the ownership of its technical content (soft copy).
- Once payment is received there will be **NO** refund / transfer done whatsoever.

## Training Prospect Plan:

- KDSSG Center for Excellence will deliver **Online Training ONLY**.
- Initial counselling discussion is compulsory between attendee and KDSSG Admin Team (or) the trainer.
- Questions asked during session are given highest priority and will be addressed during the session (or) after the session depending on the intensity of the question and the time it takes to answer it.
- At the end of training plan, participants will have obtained a strong understanding of Azure skills needed for experienced SQL Server DBAs.
- KDSSG team will guide and assist with resume preparation (as required).
- All the required softwares (mostly freeware/developer editions) would be given to trainees during the sessions after enrolling for the course.
- Lab assistance is always free, however Rs 500 per month Lab Fee is applicable for Personalized Follow-Ups and special guidance (if opted).

## **Azure Cloud**

### **Module 1: Azure Cloud Fundamentals**

Cloud Fundamentals

Terminologies of Cloud Computing

Economy of Cloud Computing and different Cloud Service Models

Scope of Azure Services and their Categories

### **Module 2: Azure SQL Database (PaaS)**

Introduction to Azure SQL Database and Deployments Tiers

Azure Pricing Models (DTU and Core Based)

Working with Azure SQL Databases

Azure SQL Database Security Tips and Tricks (includes TDE & Auditing)

Azure SQL Database Backups and Recovery (PITR, LTR)

Azure SQL Database HADR options (Geo Replication, Failover Groups)

Azure SQL Database and Service Fabric Correlation

Elastic Jobs (alternatively using Automation Accounts and Logic Apps)

Elastic Queries

Elasticity and Elastic Pools (eDTUs)

Configuring Alerts and Notifications

Integrating Azure Active Directory (AAD) to Azure SQL Databases

**Real Time Demos Included**

### **Module 3: Azure Virtual Machines - Storage-Networking (IaaS)**

Virtual Machines

Azure Global Infrastructure (Geographies, Regions, Availability Zones/Sets)

SQL Server on Windows Virtual Machines & Linux Virtual Machines

Configuring SQL Server Clustering with Shared Disks.

Storage (Blobs-Containers, Queues, File Shares, Table, Disks)

Taking SQL Server Backups (using Azure Blob Storage)

Networking (VNETs, Subnets), Azure Connectivity (Peering)

Configuring Multi-Subnet Always-On AG with Load Balancers in Azure VMs

Configuring DAG with Load Balancers in Azure VMs

**Real Time Demos Included**

## **Module 4: Azure Managed Instance (PaaS)**

Understanding Azure Managed Instance

Managed Instance Architecture Introduction

Configuring Managed Instance and its advantages

Difference between SQL Database and Managed Instance

Scaling of Managed Instances

Configuring Linked Servers to another Mi (also On-Prem)

Configuring Backups (PITR, LTR, Lift & Shift)

Deep dive discussion on Managed Instance Architecture

**Real Time Demos Included**

## **Module 5: Azure Migrations (On-Prem to Azure Cloud)**

On-Prem to Cloud Migrations (Offline and Online Methods)

Migration using DMA & Azure Data Studio

Lift and Shift Migrations

Azure Migration Services

**Real Time Demos Included**

## **Module 7: Azure PaaS (Additional Topics)**

MySQL/MariaDB/PostgreSQL (Introduction)

Deploying Azure PaaS databases for MySQL, MariaDB, PostgreSQL

Working demos with tools for Azure Scoped DBs (MySQL/MariaDB/PostgreSQL)

Azure NoSQL Databases (Azure Cosmos DB - Introduction)

Relational Vs NoSQL Databases

Azure Synapse Analytics (Introduction)

Data Warehousing versus OLTP

Deploying Azure Synapse and working with Synapse

**Demos Included**