KOENIG SOLUTIONS · COURSE OUTLINE

DP-060T00: Migrate NoSQL Workloads to Azure Cosmos DB

Learn to plan and execute migrations of MongoDB and Cassandra DB workloads to Azure Cosmos DB.

3	14	10
MODULES	TOPICS	HANDS-ON LABS

COURSE OVERVIEW

This course covers the benefits and architecture of Cosmos DB, including its APIs, throughput provisioning, and partitioning and sharding best practices. It then addresses migrating MongoDB workloads to Cosmos DB, covering migration benefits, planning, data migration, application migration, and post-migration considerations. It concludes with the equivalent process for migrating Cassandra DB workloads to Cosmos DB, following the same planning, data migration, application migration, and post-migration stages.

WHO THIS COURSE IS FOR

- **Database Administrators**
- **Database Developers**
- **Data Migration Engineers**
- **Cloud Architects**
- **Solutions Architects**

LEARNING OBJECTIVES

- Describe the benefits and architecture of Cosmos DB
- Explain Cosmos DB APIs and provisioning throughput
- Apply partitioning and sharding best practices in Cosmos DB
- Plan a migration of MongoDB workloads to Cosmos DB
- Implement data and application migration from MongoDB to Cosmos DB
- Plan a migration of Cassandra DB workloads to Cosmos DB
- Implement data and application migration from Cassandra DB to Cosmos DB
- Assess post-migration considerations for both migration types

COURSE SYLLABUS

3 Modules, 14 Topics

01

2 Labs

Building Globally Distributed Applications with Cosmos DB

This module describes the benefits and architecture of Cosmos DB.

TOPICS

Cosmos DB overview · Cosmos DB APIs · Provisioning Throughput · Partitioning/Sharding Best Practices

02

4 Labs

Migrate MongoDB Workloads to Cosmos DB

Migrate MongoDB Workloads to Cosmos DB

TOPICS

Understand Migration Benefits · Migration Planning · Data Migration · Application Migration · Post-migration considerations

03

4 Labs

Migrate Cassandra DB Workloads to Cosmos DB

This module describes the benefits and process of migrating Cassandra DB workloads to Cosmos DB.

TOPICS

Understand Migration Benefits · Migration Planning · Data Migration · Application Migration · Post-migration considerations

NOTES

- There is no additional reading required to take this course.

HANDS-ON LABS

Practise What You Learn

#	MODULE	ACTIVITY
01	**Building Globally Distributed Applications with Cosmos DB**	■ **Creating a Cosmos DB Database:** Create Cosmos DB Account ■ **Creating a Cosmos DB Database:** Configure RUs
02	**Migrate MongoDB Workloads to Cosmos DB**	■ **Migrating MongoDB Workloads to Cosmos DB:** Create a Migration Project ■ **Migrating MongoDB Workloads to Cosmos DB:** Define Source and Target ■ **Migrating MongoDB Workloads to Cosmos DB:** Perform Migration ■ **Migrating MongoDB Workloads to Cosmos DB:** Verify Migration
03	**Migrate Cassandra DB Workloads to Cosmos DB**	■ **Migrating Cassandra DB Workloads to Cosmos DB:** Export the Schema ■ **Migrating Cassandra DB Workloads to Cosmos DB:** Move Data Using CQLSH COPY ■ **Migrating Cassandra DB Workloads to Cosmos DB:** Move Data Using Spark ■ **Migrating Cassandra DB Workloads to Cosmos DB:** Verify Migration

WHAT IS INCLUDED

Everything You Need to Succeed

- Koenig course material for every module
- Delivery by certified instructors and subject matter experts
- Hands-on exercises throughout the course
- Course completion certificate from Koenig

ABOUT KOENIG

Who We Are

Established in 1993, Koenig Solutions is a globally recognised training provider with 35+ technology partnerships, 5,000+ training programmes and a network of certified instructors and subject matter experts, supporting individuals and enterprise teams worldwide.

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