

## DP-060T00 A: Migrate NoSQL workloads to Azure Cosmos DB

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### Course Summary

#### Description

This course will teach the students what is Cosmos DB and how you can migrate MongoDB and Cassandra workloads to Cosmos DB.

#### Objectives

At the completion of this course, Students will:

- Building Globally Distributed Applications with Cosmos DB
- Migrate MongoDB Workloads to Cosmos DB
- Migrate Cassandra DB Workloads to Cosmos DB

#### Audience

The primary audience for this course is database developers who plan to migrate their MongoDB or Cassandra DB workloads to Azure using Cosmos DB.

#### Topics

- Building Globally Distributed Applications with Cosmos DB
- Migrate MongoDB Workloads to Cosmos DB
- Migrate Cassandra DB Workloads to Cosmos DB

#### Prerequisites

In addition to their professional experience, students who attend this training should already have the following technical knowledge:

- The fundamental concepts of partitioning, replication, and resource governance for building and configuring scalable NoSQL applications that are agnostic of a Cosmos DB API.

#### Duration

One Day

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### Course Outline

#### I. *Building Globally Distributed Applications with Cosmos DB*

This module describes the benefits and architecture of Cosmos DB

- A. Cosmos DB overview
- B. Cosmos DB APIs
- C. Provisioning Throughput
- D. Partitioning/Sharding Best Practices

Lab : Creating a Cosmos DB Database

- Create Cosmos DB Account
- Configure RUs

#### II. *Migrate MongoDB Workloads to Cosmos DB*

Migrate MongoDB Workloads to Cosmos DB

- A. Understand Migration Benefits
- B. Migration Planning
- C. Data Migration
- D. Application Migration
- E. Post-migration considerations

Lab : Migrating MongoDB Workloads to Cosmos DB

- Create a Migration Project
- Define Source and Target
- Perform Migration
- Verify Migration

#### III. *Migrate Cassandra DB Workloads to Cosmos DB*

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

- A. Understand Migration Benefits
- B. Migration Planning
- C. Data Migration
- D. Application Migration
- E. Post-migration considerations

Lab : Migrating Cassandra DB Workloads to Cosmos DB

- Export the Schema
- Move Data Using CQLSH COPY
- Move Data Using Spark
- Verify Migration