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

Course Outline

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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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

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