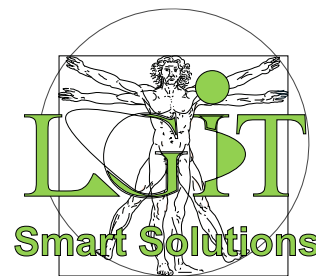


Migrate NoSQL workloads to Azure Cosmos DB: DP-060T00



Course Overview

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

Audience Profile

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

Prerequisites

Successful students start this role with a fundamental knowledge of cloud computing concepts and professional experience in configuring NoSQL applications.

Specifically:

- The fundamental concepts of partitioning, replication, and resource governance for building and configuring scalable NoSQL applications that are agnostic of Cosmos DB API.
- Experience with Azure, such as deploying and managing resources

Skills Gained

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

Duration: 6 Hours (2 x 3hrs)

Course Outline

Module 1: Building Globally Distributed Applications with Cosmos DB

This module describes the benefits and architecture of Cosmos DB.

Lessons

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

At the end of this module, the students will be able to describe:

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

Module 2: Migrate MongoDB Workloads to Cosmos DB

Migrate MongoDB Workloads to Cosmos DB

Lessons

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

Lab: Migrating MongoDB Workloads to Cosmos DB

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

At the end of this module, the students will be able to:

- Understand Migration Benefits
- Perform Migration Planning
- Perform Data Migration
- Perform Application Migration
- Undertake Post-migration considerations

Module 3: Migrate Cassandra DB Workloads to Cosmos DB

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

Lessons

- Understand Migration Benefits
- Migration Planning
- Data Migration
- Application Migration
- 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

At the end of this module, the students will be able to:

- Understand Migration Benefits
- Perform Migration Planning
- Perform Data Migration
- Perform Application Migration
- Undertake Post-migration considerations