

## Migrate NoSQL workloads to Azure Cosmos DB

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

### Détails

- **Code** : Azure-NSQL
- **Durée** : 1 jour ( 7 heures )

#### Public

- Administrateurs
- Administrateurs de bases de données
- Administrateurs de Cloud
- Administrateurs de data warehouse
- Administrateurs Linux
- Administrateurs systèmes
- Administrateurs systèmes et réseaux
- Administrators

#### Pré-requis

- NoSQL knowledges

### Objectifs

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

### Programme

#### Module 1: Building Globally Distributed Applications with Cosmos DB

- Description
  - 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

- Description
  - 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

- Description
  - 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

## Modalités

- **Type d'action** :Acquisition des connaissances
- **Moyens de la formation** :Formation présentielle – 1 poste par stagiaire – 1 vidéo projecteur – Support de cours fourni à chaque stagiaire
- **Modalités pédagogiques** :Exposés – Cas pratiques – Synthèse
- **Validation** :Exercices de validation – Attestation de stages