

MICROSOFT OFFICIAL CURRICULUM

Microsoft

DP-3015

Get started with Azure Cosmos DB NoSQL development

Official Microsoft Learn-aligned instructor-led program for Get started with Azure Cosmos DB NoSQL development.

Data

Intermediate

Azure

DURATION

1 day

LEVEL

Intermediate

FORMAT

Virtual, On-site, or Hybrid

CERTIFICATION

DP-3015

AUDIENCE PROFILE

Built for these roles

Software engineers tasked with authoring cloud-native solutions that leverage Azure Cosmos DB for NoSQL and its various SDKs. They are familiar with C# programming. They also have experience writing code that interacts with a SQL or NoSQL database platform.

OVERVIEW

Executive overview

This course teaches developers to utilize Azure Cosmos DB for NoSQL API and SDK. Students will learn query execution, resource configuration, SDK operations, and design strategies for non-relational data modeling and data partitioning.

PROGRAM OUTCOMES

Capabilities your teams will gain

- Strengthen capability in data scenarios
- Strengthen capability in azure scenarios
- Strengthen capability in role-based scenarios

ENTERPRISE CUSTOMIZATION

Enterprise customization

Tailor this program to your organization's priorities: Builds current Microsoft credential readiness for Get started with Azure Cosmos DB NoSQL development using the official Microsoft Learn outline.

Customization options

- Align labs to your production environment and platform priorities
- Add readiness reviews and instructor-led practice sessions
- Extend into project-specific architecture or delivery coaching

TALK TO US

OFFICE

CURRICULUM

Curriculum roadmap

1

MODULE 1

Get started with Azure Cosmos DB for NoSQL

Get started with Azure Cosmos DB for NoSQL

- Introduction to Azure Cosmos DB for NoSQL
- Try Azure Cosmos DB for NoSQL

2

MODULE 2

Plan and implement Azure Cosmos DB for NoSQL

Plan and implement Azure Cosmos DB for NoSQL

- Plan Resource Requirements
- Configure Azure Cosmos DB for NoSQL
- Move data into and out of Azure Cosmos DB for NoSQL

3

MODULE 3

Connect to Azure Cosmos DB for NoSQL with the SDK

Connect to Azure Cosmos DB for NoSQL with the SDK

- Use the Azure Cosmos DB for NoSQL SDK
- Configure the Azure Cosmos DB for NoSQL SDK

4

MODULE 4

Access and manage data with the Azure Cosmos DB for NoSQL SDKs

Access and manage data with the Azure Cosmos DB for NoSQL SDKs

- Implement Azure Cosmos DB for NoSQL point operations
- Perform cross-document transactional operations with the Azure Cosmos DB for NoSQL
- Process bulk data in Azure Cosmos DB for NoSQL

TALK TO US

-  info@vnodeites.com
-  +91 9779 91 4792
-  WhatsApp · +91 9779 91 4792
-  +91 9419 11 4792

OFFICE

DLF Cyber City, Gurugram
Haryana — India
Azure · AI · Data · Power Platform

5

MODULE 5

Execute queries and build a Generative AI application with Azure Cosmos DB

Execute queries and build a Generative AI application with Azure Cosmos DB

- Query the Azure Cosmos DB for NoSQL
- Author complex queries with the Azure Cosmos DB for NoSQL
- Build Generative AI applications with Azure Cosmos DB

6

MODULE 6

Define and implement an indexing strategy for Azure Cosmos DB for NoSQL

Define and implement an indexing strategy for Azure Cosmos DB for NoSQL

- Define indexes in Azure Cosmos DB for NoSQL
- Customize indexes in Azure Cosmos DB for NoSQL

7

MODULE 7

Integrate Azure Cosmos DB for NoSQL with Azure services

Integrate Azure Cosmos DB for NoSQL with Azure services

- Consume an Azure Cosmos DB for NoSQL change feed using the SDK
- Handle events with Azure Functions and Azure Cosmos DB for NoSQL change feed
- Search Azure Cosmos DB for NoSQL data with Azure Cognitive Search

8

MODULE 8

Implement a data modeling and partitioning strategy for Azure Cosmos DB for NoSQL

Implement a data modeling and partitioning strategy for Azure Cosmos DB for NoSQL

- Implement a non-relational data model
- Design a data partitioning strategy

9

MODULE 9

Design and implement a replication strategy for Azure Cosmos DB for NoSQL

Design and implement a replication strategy for Azure Cosmos DB for NoSQL

- Configure replication and manage failovers in Azure Cosmos DB
- Use consistency models in Azure Cosmos DB for NoSQL
- Configure multi-region write in Azure Cosmos DB for NoSQL

TALK TO US

-  info@vnodeites.com
-  +91 9779 91 4792
-  WhatsApp · +91 9779 91 4792
-  +91 9419 11 4792

OFFICE

DLF Cyber City, Gurugram
Haryana — India
Azure · AI · Data · Power Platform

10

MODULE 10

Optimize query and operation performance in Azure Cosmos DB for NoSQL

Optimize query and operation performance in Azure Cosmos DB for NoSQL

- Customize an indexing policy in Azure Cosmos DB for NoSQL
- Measure index performance in Azure Cosmos DB for NoSQL
- Implement integrated cache in Azure Cosmos DB for NoSQL

11

MODULE 11

Monitor and troubleshoot an Azure Cosmos DB for NoSQL solution

Monitor and troubleshoot an Azure Cosmos DB for NoSQL solution

- Measure performance in Azure Cosmos DB for NoSQL
- Monitor responses and events in Azure Cosmos DB for NoSQL
- Implement backup and restore for Azure Cosmos DB for NoSQL
- Implement security in Azure Cosmos DB for NoSQL

12

MODULE 12

Manage an Azure Cosmos DB for NoSQL solution using DevOps practices

Manage an Azure Cosmos DB for NoSQL solution using DevOps practices

- Write management scripts for Azure Cosmos DB for NoSQL
- Create resource template for Azure Cosmos DB for NoSQL

13

MODULE 13

Create server-side programming constructs in Azure Cosmos DB for NoSQL

Create server-side programming constructs in Azure Cosmos DB for NoSQL

- Build multi-item transactions with the Azure Cosmos DB for NoSQL
- Expand query and transaction functionality in Azure Cosmos DB for NoSQL

PRIVATE DELIVERY

Plan a private cohort for your team

Scope delivery format, role mix, and rollout timeline with our solutions team.

Plan Private Delivery

Book advisory call

vnodeites.com

TALK TO US

OFFICE