

CosmosDB in a Day

Duration: 1 Day (8 Hours)

Course Description: Learn about the fundamentals of CosmosDB for NoSQL API.

Pre-requisites:

- Familiarity with Azure and the Azure portal.
- Experience programming with C#.

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1. Introduction to Databases
 - What is a relational database?
 - What is a NoSQL database?
 - Difference between relational and NoSQL databases
2. What is Azure Cosmos DB?
 - Key benefits of Azure Cosmos DB
 - How does it work?
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 - Choosing an API in Azure CosmosDB
 - Azure Cosmos DB resource model
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 - **Demo:** Working with Elements of Azure Cosmos DB account
3. Global Distribution
 - Configure multi-region writes
 - Manage consistency levels
 - Configure conflict resolution policies
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 - **Demo:** Creating container using Azure CosmosDB for NoSQL API of in .Net
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 - **Demo:** Manipulating data using Azure CosmosDB for NoSQL API of in .Net
5. Secure Azure Cosmos credentials using Azure Key Vault
 - Create a Key Vault
 - Add Azure Cosmos DB access keys to the Key Vault

- Use Managed Identity
- Create an Azure web application
- Enable Managed Identity
- Register the application & grant permissions to read the Key Vault
- **Demo:** Securing Azure Cosmos credentials using Azure Key Vault

6. Best Practices for using Azure CosmosDB