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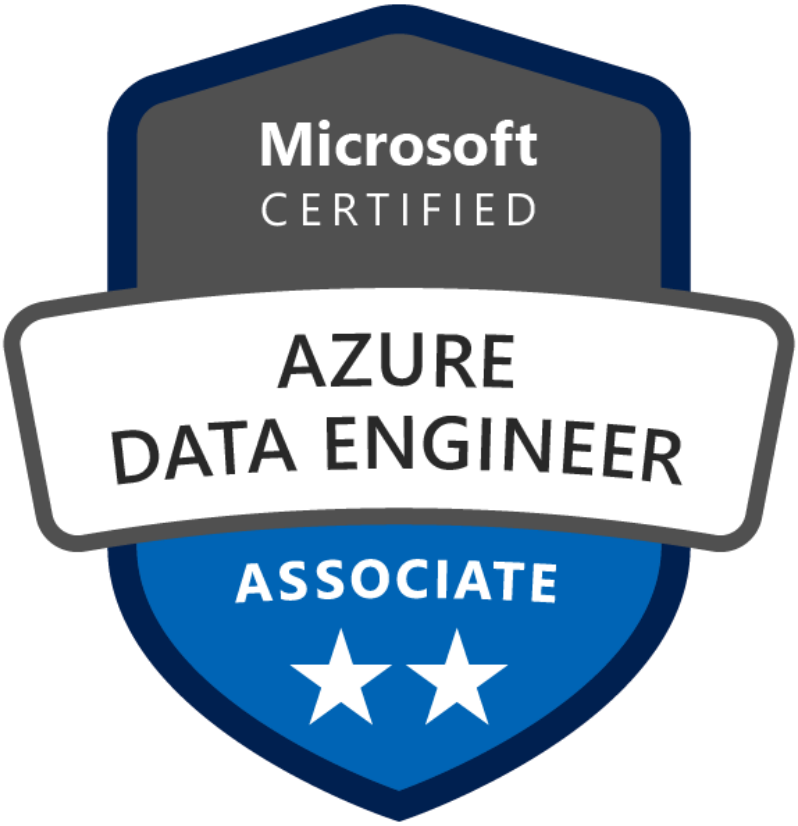
Training | Consulting | Developement | Outsourcing



Azure Data Engineer (DP-201)

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Azure - Designing an Azure Data Solution (DP-201)

Course Overview:

This Learning Path is designed to help you and your team prepare for Microsoft's DP-201 Designing an Azure Data Solution exam. Even if you don't plan to take the exam, these courses and hands-on labs will help you learn how to design a variety of Azure data solutions.

Candidates who pass both the DP-200 and DP-201 exams will earn the Microsoft Certified: Azure Data Engineer Associate certification.

The DP-201 exam tests your knowledge of three subject areas: designing data storage solutions, designing data processing solutions, and designing for data security and compliance.

Course Outline:

Design Azure Data Storage Solutions

1. Recommend an Azure data storage solution based on requirements

- choose the correct data storage solution to meet the technical and business requirements
- choose the partition distribution type

2. Design non-relational cloud data stores

- design data distribution and partitions
- design for scale (including multi-region, latency, and throughput)
- design a solution that uses Cosmos DB, Data Lake Storage Gen2, or Blob storage
- select the appropriate Cosmos DB API
- design a disaster recovery strategy
- design for high availability

3. Design relational cloud data stores

- design data distribution and partitions
- design for scale (including latency, and throughput)

- design a solution that uses Azure Synapse Analytics
- design a disaster recovery strategy
- design for high availability

Design Data Processing Solutions

1. Design batch processing solutions

- design batch processing solutions that use Data Factory and Azure Databricks
- identify the optimal data ingestion method for a batch processing solution
- identify where processing should take place, such as at the source, at the destination, or in transit

2. Design real-time processing solutions

- design for real-time processing by using Stream Analytics and Azure Databricks
- design and provision compute resources

Design for Data Security and Compliance

1. Design security for source data access

- plan for secure endpoints (private/public)
- choose the appropriate authentication mechanism, such as access keys, shared access signatures (SAS), and Azure Active Directory (Azure AD)

2. Design security for data policies and standards

- design data encryption for data at rest and in transit
- design for data auditing and data masking
- design for data privacy and data classification
- design a data retention policy
- plan an archiving strategy
- plan to purge data based on business requirements

Prerequisites:

- Microsoft Azure Administrator
- People preparing for Microsoft's DP-201 exam

- **Who Should Attend:**
  - Students should have at least one year of hands-on experience securing Azure workloads and experience with security controls for workloads on Azure.
  - People who want to become Azure data engineers
  - People preparing for Microsoft's DP-201 exam

- **Number of Hours: 25hrs**

- **Certification: DP-201**

- **Key Features:**
  - One to One Training
  - Online Training
  - Fastrack & Normal Track
  - Resume Modification
  - Mock Interviews
  - Video Tutorials
  - Materials
  - Real Time Projects
  - Virtual Live Experience
  - Preparing for Certification