TechyEdz Solutions

A Blended Learning Approach

Azure - Implementing an Azure Data Solution (DP-200)

9032803832

9032803832

contact@techyedz.com

www.techyedz.com

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Course Overview:

This Learning Path is designed to help you and your team prepare for Microsoft's DP-200 Implementing 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 deploy and manage 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-200 exam tests your knowledge of three subject areas: implementing data storage solutions, managing and developing data processing, and monitoring and optimizing data solutions. This exam is all about implementation and configuration, so you need to know how to configure data services in the Azure portal. It includes tasks that you have to perform in a live lab. To give you some practice, we have included a number of hands-on lab exercises in this learning path.

Course Outline:

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Implement Data Storage Solutions

1. Implement non-relational data stores

- implement a solution that uses Cosmos DB, Data Lake Storage Gen2, or Blob storage
- implement data distribution and partitions
- implement a consistency model in Cosmos DB
- provision a non-relational data store
- provide access to data to meet security requirements
- implement for high availability, disaster recovery, and global distribution

2. Implement relational data stores

- provide access to data to meet security requirements
- implement for high availability, disaster recovery, and global distribution
- implement data distribution and partitions for Azure Synapse Analytics
- implement PolyBase

3. Manage data security

- implement data masking

- encrypt data at rest and in motion

Manage and Develop Data Processing

1. Develop batch processing solutions

- develop batch processing solutions by using Data Factory and Azure Databricks
- ingest data by using PolyBase
- implement the integration runtime for Data Factory
- create linked services and datasets
- create pipelines and activities
- create and schedule triggers
- implement Azure Databricks clusters, notebooks, jobs, and autoscaling
- ingest data into Azure Databricks

2. Develop streaming solutions

- configure input and output
- select the appropriate windowing functions
- implement event processing by using Stream Analytics

Monitor and Optimize Data Solutions

1. Monitor data storage

- monitor relational and non-relational data sources
- implement Blob storage monitoring
- implement Data Lake Storage monitoring
- implement Azure Synapse Analytics monitoring
- implement Cosmos DB monitoring
- configure Azure Monitor alerts
- implement auditing by using Azure Log Analytics

2. Monitor data processing

- monitor Data Factory pipelines
- monitor Azure Databricks
- monitor Stream Analytics
- configure Azure Monitor alerts
- implement auditing by using Azure Log Analytics

3. Optimize of Azure data solutions

- troubleshoot data partitioning bottlenecks

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- optimize Data Lake Storage
- optimize Stream Analytics
- optimize Azure Synapse Analytics
- manage the data lifecycle

Prerequisites:

- Microsoft Azure Administrator

Who Should Attend:

- People who want to become Azure data engineers
- People preparing for Microsoft's DP-200 exam

- **Number of Hours: 25hrs**
- **Certification: DP-200**
- **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

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