Learning path for Azure Data Engineer

Azure Data Engineers design and implement the management, monitoring, security, and privacy of data using the full stack of Azure data services to satisfy business needs.

Implementing an Azure Data Solution

Classroom

Azure fundamentals
4H 59M – 11 Modules
1. Principles of cloud computing
2. Azure architecture and service guarantees
3. Create an Azure account
4. Manage services with the Azure portal
5. Azure compute options
6. Azure data storage options
7. Azure networking options
8. Security, resiliency and trust in Azure
9. Apply and monitor infrastructure standards with Azure Policy
10. Control and organize Azure resources with Azure Resource Manager
11. Azure billing and optimize spending for Azure

Work with relational data in Azure
3H 20M – 4 Modules
1. Provision an Azure SQL database to store application data
2. Create an Azure Database for PostgreSQL server
3. Scale multiple Azure SQL Databases with SQL elastic pools
4. Secure your Azure SQL Database

Large Scale Data Processing with Azure Data Lake Storage Gen2
2H 58M – 3 Modules
1. Introduction to Azure Data Lake Storage
2. Upload data to Azure Data Lake Storage
3. Secure your Azure Storage Account

Work with NoSQL data in Azure Cosmos DB
3H 55M – 8 Modules
1. Create an Azure Cosmos DB database built to scale
2. Choose the appropriate API for Azure Cosmos DB storage
3. Insert and query data in your Azure Cosmos DB database
4. Store and access graph data in Azure Cosmos DB with the Graph API
5. Store and access NoSQL Data with Azure Cosmos DB
7. Optimize the performance of Azure Cosmos DB by using partitioning and indexing strategies
8. Distribute your data globally with Azure Cosmos DB

Implement a Data Warehouse with Azure SQL Data Warehouse
3H 21M – 4 Modules
1. Design a data warehouse with Azure SQL Data Warehouse
2. Query data in Azure SQL Data Warehouse
3. Import data into Azure SQL Data Warehouse using PolyBase
4. Data warehouse security

Perform data engineering with Azure Databricks
7H 48M – 9 Modules
1. Introduction to Azure Databricks
2. Access SQL Data warehouse instances with Azure Databricks
3. Data ingestion with Azure data factory
4. Data pipelines by using Azure Databricks
5. Perform basic data transformations in Azure Databricks
6. Perform advanced data transformations in Azure Databricks
7. Create data pipelines by using Databricks Delta
8. Work with streaming data in Azure Databricks
9. Create data visualizations using Azure Databricks and Power BI

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7H 48M – 9 Modules
1. Introduction to Azure Databricks
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Extract knowledge and insights from your data with Azure Databricks
4H 21M – 6 Modules
1. Introduction to Azure Databricks
2. Read and write data by using Azure Databricks
3. Perform exploratory data analysis with Azure Databricks
4. Train, evaluate, and select machine-learning models with Azure Databricks
5. Deep learning with Azure Databricks
6. Perform text analytics with Azure Databricks

Exam DP-200: Implementing an Azure Data Solution

Become a Microsoft Certified Professional
Certification helps establish your credentials with current and future employers.
Pass certification exams DP-200 and DP-201 to become a Microsoft Certified: Azure Data Engineer Associate.

Exam DP-201: Designing an Azure Data Solution

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