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.

aka.ms/AzureDataEngLearning

Classroom

Implementing an Azure Data Solution
DP-200T01

Digital skilling: free interactive training content on Microsoft Learn
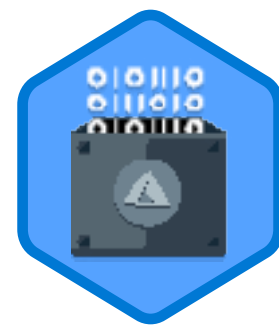
Azure fundamentals

9H 59M – 12 Modules

1. Principles of cloud computing
2. Introduction to Azure
3. Azure architecture and service guarantees
4. Create an Azure account
5. Manage services with the Azure portal
6. Azure compute options
7. Azure data storage options
8. Azure networking options
9. Security, responsibility and trust in Azure
10. Apply and monitor infrastructure standards with Azure Policy
11. Control and organize Azure resources with Azure Resource Manager
12. Predict costs and optimize spending for Azure

Azure for the Data Engineer

1H 51M – 3 Modules

1. Understand the evolving world of data
2. Survey the services on the Azure Data Platform
3. Identify the tasks of a data engineer in a cloud-hosted architecture
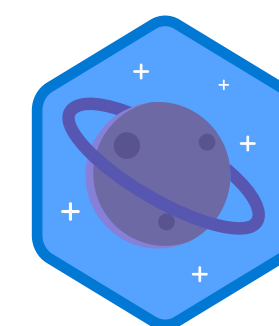
Store data in Azure

3H 50M – 5 Modules

1. Choose a data storage approach in Azure
2. Create an Azure Storage account
3. Connect an app to Azure Storage
4. Secure your Azure Storage account
5. Store application data with Azure Blob storage

Work with relational data in Azure

4H 10M – 5 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
5. Develop and configure an ASP.NET application that queries an Azure SQL database

Work with NoSQL data in Azure Cosmos DB

5H 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 and the Table API
6. Build a .NET Core app for Azure Cosmos DB in Visual Studio Code
7. Optimize the performance of Azure Cosmos DB by using partitioning and indexing strategies
8. Distribute your data globally with Azure Cosmos DB

Large Scale Data Processing with Azure Data Lake Storage Gen2

2H 5M – 3 Modules

1. Introduction to Azure Data Lake Storage
2. Upload data to Azure Data Lake Storage
3. Secure your Azure Storage account

Implement a Data Streaming Solution with Azure Streaming Analytics

1H 14M – 2 Modules

1. Work with data streams by using Azure Stream Analytics
2. Transform data by using Azure Stream Analytics

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 49M – 9 Modules

1. Introduction to Azure Databricks
2. Access SQL Data warehouse instances with Azure Databricks
3. Data ingestion with Azure data factory
4. Read and write data 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

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.

Classroom

Designing an Azure Data Solution
DP-201T01

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