



552241: MICROSOFT AZURE BIG DATA ANALYTICS SOLUTIONS TRAINING

Duration: 2 Days

Course Description

552241: Microsoft Azure Big Data Analytics Solutions Training is aimed at professionals to enhance their knowledge about developing big data analytic solutions on Microsoft Azure. This technical course will teach individuals to build solutions for batch and real-time data processing. It also covers various methods to use Azure and operationalize cloud analytics solutions. Our enterprise training program is best for organizations and companies. Throughout this course, individuals will learn to ingest data for batch processing and interactive design queries. It also teaches to ingest data for real-time processing and create workspaces and publish web services. 552241: Microsoft Azure Big Data Analytics Solutions Training is ideal for data professionals responsible for designing big data analytics solutions on Microsoft Azure.

This training is designed based on the objectives of the course variant 552241A.

Who should attend this course?

This training is aimed at experienced data professionals who create big data analytics solutions on Microsoft Azure and want to leverage their existing knowledge to create big data real-time processing solutions.

Prerequisites

- Experience processing and querying bulk data
- Experience analyzing real-time and historical data
- Experience using SQL and data analysis / visualization tools (e.g. Power BI)
- Experience using PowerShell (Note: A basic PowerShell tutorial is included in the course.)

Curriculum

Module 1: Design big data batch processing and interactive solutions (552241A)

This module explains how to load data into Microsoft Azure for batch processing.

Lessons

- Module Objectives
- Lesson 1: Ingest data for batch processing
- Lesson 2: Design for batch processing
- Lesson 3: Design interactive queries
- Review

Lab 1: Design big data batch processing and interactive solutions

- Exercise 1: Load data into Microsoft Azure
- Exercise 2: Prepare data for batch processing
- Exercise 3: Query the data

After completing this module, students will be able to:

- Load data into Microsoft Azure
- Prepare data for batch processing
- Query the data

Module 2: Design Big Data Real-Time Processing Solutions (552241A)

This module explains how to load data into Microsoft Azure for real-time processing.

Lessons

- Module Objectives
- Lesson 1: Ingest data for Real-Time Processing
- Lesson 2: Designing for Real-Time Processing
- Lesson 3: Design interactive queries for Big Data
- Review

Lab 1: Design Big Data Real-Time Processing Solutions

- Exercise 1: Load data into Microsoft Azure
- Exercise 2: Prepare data for Real-Time Event Processing
- Exercise 3: Visualize the Data

After completing this module, students will be able to:

- Load data into Microsoft Azure
- Prepare data for real-time event processing
- Visualize the data

Module 3: Operationalize end-to-end cloud analytics solutions (552242A)

This module explains how to use Azure Data Factory to centrally manage data from different sources.

Lessons

- Module Objectives
- Lesson 1: Create a data factory
- Lesson 2: Create a data-driven workflow
- Lesson 3: Monitor and Manage the data factory
- Lesson 4: Move, Transform and Analyze Data
- Lesson 5: Design a deployment strategy for an end-to-end solution
- Review

Lab 1: Operationalize end-to-end cloud analytics solutions

- Exercise 1: Create a data factory
- Exercise 2: Create a data-driven workflow
- Exercise 3: Monitor and Manage the data factory
- Exercise 4: Move, Transform and Analyze Data
- Exercise 5: Design a deployment strategy for an end-to-end solution

After completing this module, students will be able to:

- Create, Manage & Monitor a data factory
- Create a data driven workflow
- Move, Transform and Analyze Data
- Create a deployment strategy using PowerShell

Module 4: Appendix B: PowerShell for Technology Professionals (552241A Optional)

This module explains how to use PowerShell to administer computer, network, application, and Azure resources.

Lessons

- Introduction
- Compared to Other Scripting Languages
- Configuring and Using PowerShell
- Creating and Running Scripts
- Administering Local Resources
- Administering Network Resources
- Resolve PowerShell Scripting Problems

Lab 1: Operationalize end-to-end cloud analytics solutions

- Exercise 1: Use PowerShell to get Computer Information
- Exercise 2: Use PowerShell documentation to understand and use cmdlets
- Exercise 3: Create and execute scripts
- Exercise 4: Configure and test Remote Management
- Exercise 5: Create and Azure VM with Azure PowerShell

After completing this module, students will be able to:

- Use PowerShell to get Computer Information
- Use PowerShell documentation to understand and use cmdlets
- Create and execute scripts
- Configure and test Remote Management
- Create and Azure VM with Azure PowerShell