



552241 - Microsoft Azure Big Data Analytics Solutions

Course ID #: 0313-303-16-W

Hours: 14

Course Content

Course Description:

55224A-1 is a two-day instructor-led course is intended for data professionals who want to expand their knowledge about creating big data analytic solutions on Microsoft Azure. Students will learn how to design solutions for batch and real-time data processing. Different methods of using Azure will be discussed and practiced in lab exercises, such Azure CLI, Azure PowerShell and Azure Portal. 55224A-1 labs and exercises cover the first two objectives of exam 70-475 (Designing Big Data batch, interactive & real-time solutions). The other two objectives (Designing Machine Learning and cloud analytics solutions) are covered in 55224A-2.

At Course Completion:

After competing this course, student will be able to:

- Design big data batch processing and interactive solutions (55224A-1)
- Design big data real-time processing solutions (55224A-1)
- Design Machine Learning solutions (55224A-2)
- Operationalize end-to-end cloud analytics solutions (55224A-2)

Target Student:

This course is intended for experienced data professionals who design big data analytics solutions on Microsoft Azure.

Prerequisites:

Before attending this course, students must have:

- 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.)



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Topics:

Module 1: Design big data batch processing and interactive solutions (Covered in 55224A-1)

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

Lessons

- Ingest data for batch processing
- Design for batch processing
- Design interactive queries
- Review

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 (Covered in 55224A-1)

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

Lessons

- Ingest data for real-time processing
- Design for real-time processing
- Design interactive queries for big data
- Review

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: Design Machine Learning solutions (Covered in 55224A-2)

This module explains how to use machine learning models to automate data analysis.

Lessons

- Create workspaces
- Select models and query parameters
- Publish web services
- Review

After completing this module, students will be able to:

- Create and share workspaces
- Select models and query parameters
- Access the machine learning models

Module 4: Operationalize end-to-end cloud analytics solutions (Covered in 55224A-2)

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

Lessons

- Create a data factory
- Manage and Monitor the data factory
- Deploy end-to-end solutions using PowerShell
- Review

After completing this module, students will be able to:

- Create a data factory
- Manage and Monitor the data factory
- Deploy a data factory using PowerShell