

Microsoft Azure Big Data Analytics Solutions

Duration: 2 Day(s)

Course Overview

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 as 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.

Review this course online at <https://www.alta3.com/courses/55224-1>

Objectives

- Design big data batch processing and interactive solutions.
- Design big data real-time processing solutions.
- Design Machine Learning and cloud analytics solutions.
- Operationalize end-to-end cloud analytics solutions.

Who Should Attend

- Experienced data professionals
- Data analysts
- Data engineers
- Cloud solution architects

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)

Course Outline

Module 1: Design big data batch processing and interactive solutions

1. Ingest data for batch processing
2. Design for batch processing
3. Design interactive queries
4. Review

Lab: Design big data batch processing and interactive solutions

5. Load data into Microsoft Azure
6. Prepare data for batch processing

7. Query the data

Module 2: Design big data real-time processing solutions

8. Ingest data for real-time processing

9. Design for real-time processing

10. Design interactive queries for big data

11. Review

Lab: Design big data real-time processing solutions

12. Load data into Microsoft Azure

13. Prepare data for real-time event processing

14. Visualize the data

Module 3: Design Machine Learning solutions

15. Create workspaces

16. Select models and query parameters

17. Publish web services

18. Review

Lab: Design Machine Learning solutions

19. Create workspaces

20. Select models and query parameters

21. Publish web services

Module 4: Operationalize end-to-end cloud analytics solutions

22. Create a data factory

23. Manage and Monitor the data factory

24. Deploy end-to-end solutions using PowerShell

25. Review

Lab: Operationalize end-to-end cloud analytics solutions

26. Create a data factory

27. Manage and Monitor the data factory

28. Deploy a data factory using PowerShell