Course Syllabus

Operationalize Cloud Analytics Solutions with Microsoft Azure

Course #: 552242A

Number of Days: 2

Format: Instructor-Led

Certification Exams: 70-475

This course syllabus should be used to determine whether the course is appropriate for the students, based on their current skills and technical training needs.

Course content, prices, and availability are subject to change without notice.

Elements of this syllabus are subject to change.

552242A is a two-day instructor-led course intended for data professionals who want to expand their knowledge about creating big data analytic solutions on Microsoft Azure. Students will learn how to operationalize end-to-end cloud analytics solutions using the Azure Portal and Azure PowerShell. It can be used on its own or with 552241A, Microsoft Azure Big Data Analytics, to prepare for exam 70-475.

Audience

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

At Course Completion

After completing this course, students will be able to:

- Create a Data Factory
- Orchestrate data processing activities in a data-driven workflow
- Monitor and Manage a Data Factory
- Move, Transform or Analyze data
- Design a deployment strategy for end-to-end solutions with Azure Portal or PowerShell

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 552241A.)

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

This module explains how to 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 use PowerShell to:

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

Appendix B: PowerShell for Technology Professionals (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 B: 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:

- 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