Microsoft - Operationalize Cloud Analytics Solutions with Microsoft Azure

Code:	552242
Length:	2 days
URL:	View Online

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 PowerShell, Azure CLI, Azure Portal, Azure Cloud Shell and Python.

It can be used on its own or with course 552241A, Microsoft Azure Big Data Analytics, to prepare for exam 70-475.

Skills Gained

- 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

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Who Can Benefit

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

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 552241A.)

Course Details

Outline

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
- Use Powershell to create a data driven workflow
- Use Powershell to Move, Transform and Analyze Data
- Use Powershell to create a deployment strategy using PowerShell

Module 2: 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 1: 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 get Computer Information
- Use PowerShell documentation to understand and use cmdlets
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- Create and Azure VM with Azure PowerShell
