



552242: OPERATIONALIZE CLOUD ANALYTICS SOLUTIONS WITH MICROSOFT AZURE TRAINING

Duration: 2 Days

Course Description

552242: Operationalize Cloud Analytics Solutions with Microsoft Azure Training helps professionals evolve their knowledge about building big data analytics solutions on Microsoft Azure to the next level. This technical course provides a comprehensive understanding of common architectures for big data with the help of Azure tools and services. Trainees will learn the techniques to include custom functions and machine learning operations into an Azure Stream Analytics job. It also teaches to utilize Azure SQL Data Warehouse to build a repository that can support huge scale analytical functioning across data at rest. This training program is suitable for data engineers who plan to apply big data engineering workflows on Azure. From creating and deploying custom operations to utilize Azure Data Factory, this program covers all essential concepts.

This training is designed based on the objectives of the course variant 552242A.

Who should attend this course?

This training is aimed at data professionals who have experience in designing 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.)

What you will learn

- Building a Data Factory
- Orchestrating data processing activities in a data-driven workflow
- Monitoring and Managing a Data Factory
- Moving, Transforming or Analyzing data
- Designing a deployment strategy for end-to-end solutions with Azure PowerShell or Portal.

Curriculum

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: 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
- Create and execute scripts
- Configure and test Remote Management
- Create and Azure VM with Azure PowerShell

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