



Course 552241 • Microsoft Azure

Microsoft Azure Big Data Analytics Solutions

Length

- 2 days

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)

Audience

- Experienced data professionals who design and build big data analytics solutions on Microsoft Azure

What You'll Learn

- Design big data batch processing and interactive solutions
- Design big data real-time processing solutions
- Design Machine Learning solutions
- Operationalize end-to-end cloud analytics solutions
- Design a deployment strategy for end-to-end solutions with Azure Portal or PowerShell

This 2-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. 552241 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 Course 552242.

Workshop Outline

Module 1: Design Big Data Batch Processing and Interactive Solutions

- Ingest data for batch processing
- Design for batch processing
- Monitor and Manage a Data Factory
- Design interactive queries

Module 2: Design big data real-time processing solutions

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

Module 3: Design big data real-time processing solutions

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

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

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