Microsoft Azure Big Data Analytics Solutions Course and Training

Curriculum 2 Days

Day - 1

- **Module 1: Design big data batch processing and interactive solutions**
  This module explains how to load data into Microsoft Azure for batch processing.

  Lessons
  - Module Objectives
  - Lesson 1: Ingest data for batch processing
  - Lesson 2: Design for batch processing
  - Lesson 3: Design interactive queries
  - Review

  Lab : Design big data batch processing and interactive solutions
  - Exercise 1: Load data into Microsoft Azure
  - Exercise 2: Prepare data for batch processing
  - Exercise 3: Query the data

  After completing this module, students will be able to use PowerShell to:
  - Load data into Microsoft Azure
  - Prepare data for batch processing
  - Query the data

- **Module 2: Design Big Data Real-Time Processing Solutions**
  This module explains how to load data into Microsoft Azure for real-time processing.

  Lessons
  - Module Objectives
  - Lesson 1: Ingest data for Real-Time Processing
  - Lesson 2: Designing for Real-Time Processing
  - Lesson 3: Design interactive queries for Big Data
  - Review

  Lab : Design Big Data Real-Time Processing Solutions
  - Exercise 1: Load data into Microsoft Azure
  - Exercise 2: Prepare data for Real-Time Event Processing
  - Exercise 3: Visualize the Data

  After completing this module, students will be able to use PowerShell to:
  - Load data into Microsoft Azure
  - Prepare data for real-time event processing
  - Visualize the data

Day - 2

- **Module 3: 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 : Design big data batch processing and interactive 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

- **Module 4: PowerShell for Technology Professionals**

  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 : Operationalize end