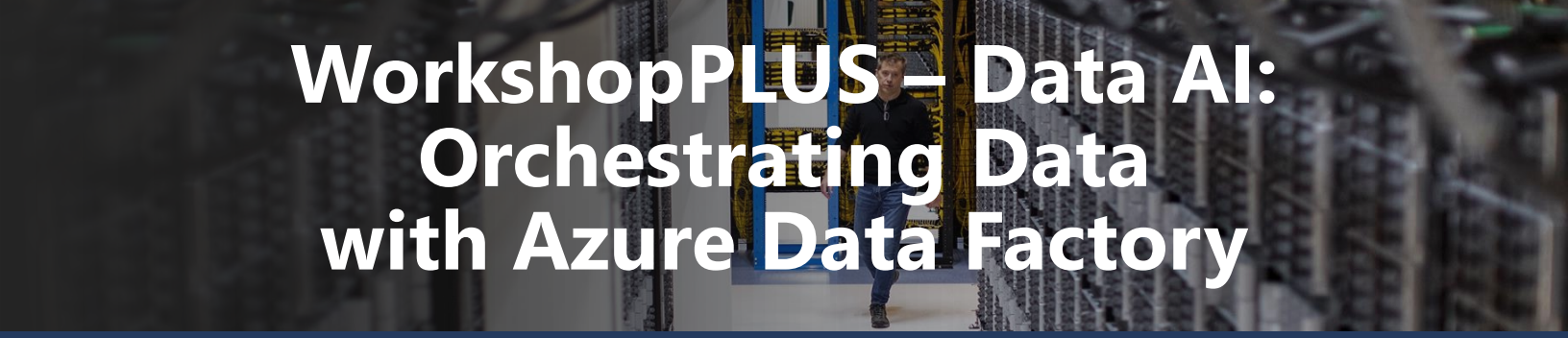


WorkshopPLUS – Data AI: Orchestrating Data with Azure Data Factory

WorkshopPLUS

Duration: 3 Day [Remote / Onsite]
Difficulty Level: 300 - Advanced

Description

Learn the key principles of Data Factory, a cloud integration service, to compose data transformation, movement and processing services into automated data pipelines. This includes the in-line data transformation tool; Mapping Data Flow.
Learn about Security and Monitoring in Azure Data Factory, including how this integrates with Azure level security.

Objectives

- Author ADF pipelines
- Describe scenarios for using different ADF Activities
- Author ADF-Mapping Data Flows
- Deploy and monitor pipelines in production environments
- Verify and Debug ADF pipelines and Mapping Data Flows

Outcomes

- Intro to ADF and connecting ADF to Source Control
- ADF Copy Activity and Copy Data Tool
- ADF Transformation and Control Flow
- Connect Azure Data Factory to Release Pipelines
- Mapping Data Flow
- Security, Integration Runtimes and Monitoring

Methodology

- **Learn by example** - Learn with presentations, demonstrations and group discussion.

Requirements

Participants

Participation of key roles is necessary for the overall success and delivery of this engagement.

- Database Administrators
- Data Engineers
- Business Analysts

Skill Requirements - Recommended

- Currently working as ETL/ELT developers
- Microsoft Certified Professionals for Azure or Data Engineering.
- The basic concepts of Azure or PowerShell, while used, will not be covered in this course. It is expected that the attendees will already possess these skills/experience.

Delivery Requirements

- Computer with Windows 10 or later, audio equipment, internet access. Modern browser and at least 1-Mbps bandwidth per participant.
- Microsoft/Windows Live ID to connect to the virtual environment.
- Microsoft Teams for remote delivery.

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Delivery Outline

The scope of this engagement will be agreed based on your specific needs. Final agenda will be determined in the scoping call.

Delivery Details

Module 1 – Introduction to Azure Data Factory (ADF)

- Overview of ADF
- Objectives and Scenarios for using ADF
- Authoring ADF Pipelines
- Introduction to Source Control in ADF

Module 2 – Copy Activities and Connectors

- Copy Activity in ADF
- Copy Data Tool in ADF
- Connecting to Different Data Sources
- Creating Linked Services

Module 3 – Transformation and Control Flow

- Identify and explain different transformation activities
- On-Demand vs BYO Compute environments
- Controlling flow of activities in the pipeline

Module 4 – Azure Data Factory CI/CD

- Connecting ADF to DevOps Release pipelines

Module 5 – Mapping Data Flow

- Introduction to Mapping Data Flow (MDF)
- Debugging in MDF
- Introduction to MDF Expression Builder
- Scenarios for using Mapping Data Flow

Module 6 – Security and Monitoring

- Security in ADF and integration with Azure Security
- Securely storing credentials for ADF
- Using ADF Integration Runtimes
- Installing Self-Hosted IR
- Monitoring ADF within the ADF and Azure Portals

Module 7 – SSIS Integration Runtime (optional)

- Running SSIS Packages in Azure

For more information: Contact your Microsoft Representative for more details.

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