Implement a Lakehouse with Microsoft Fabric (DP-601T00)

ID DP-601T00 **Price** CHF 870.—(excl. VAT) **Duration** 1 days

Who should attend

The primary audience for this course is data professionals who are familiar with data modeling, extraction, and analytics. It is designed for professionals who are interested in gaining knowledge about Lakehouse architecture, the Microsoft Fabric platform, and how to enable end-to-end analytics using these technologies.

Course Content

Introduction to end-to-end analytics using Microsoft Fabric

- Introduction
- Explore end-to-end analytics with Microsoft Fabric
- Explore data teams and Microsoft Fabric
- Enable and use Microsoft Fabric
- Module assessment
- Summary

Get started with lakehouses in Microsoft Fabric

- Introduction
- Describe lakehouse features and capabilities
- Ingest and transform data in a lakehouse
- Query and analyze lakehouse data
- Exercise - Create a Microsoft Fabric lakehouse
- Module assessment
- Summary

Use Apache Spark in Microsoft Fabric

- Introduction
- Prepare to use Apache Spark
- Run Spark code
- Work with data in a Spark dataframe
- Work with data using Spark SQL
- Visualize data in a Spark notebook
- Exercise - Analyze data with Apache Spark
- Module assessment
- Summary

Work with Delta Lake tables in Microsoft Fabric

- Introduction
- Understand Delta Lake
- Create delta tables
- Optimize delta tables
- Work with delta tables in Spark
- Use delta tables with streaming data
- Exercise - Use delta tables in Apache Spark
- Module assessment
- Summary

Ingest Data with Dataflows Gen2 in Microsoft Fabric

- Introduction
- Understand Dataflows Gen2 in Microsoft Fabric
- Explore Dataflows Gen2 in Microsoft Fabric
- Integrate Dataflows Gen2 and Pipelines in Microsoft Fabric
- Exercise - Create and use a Dataflow Gen2 in Microsoft Fabric
- Module assessment
- Summary

Orchestrate processes and data movement with Microsoft Fabric

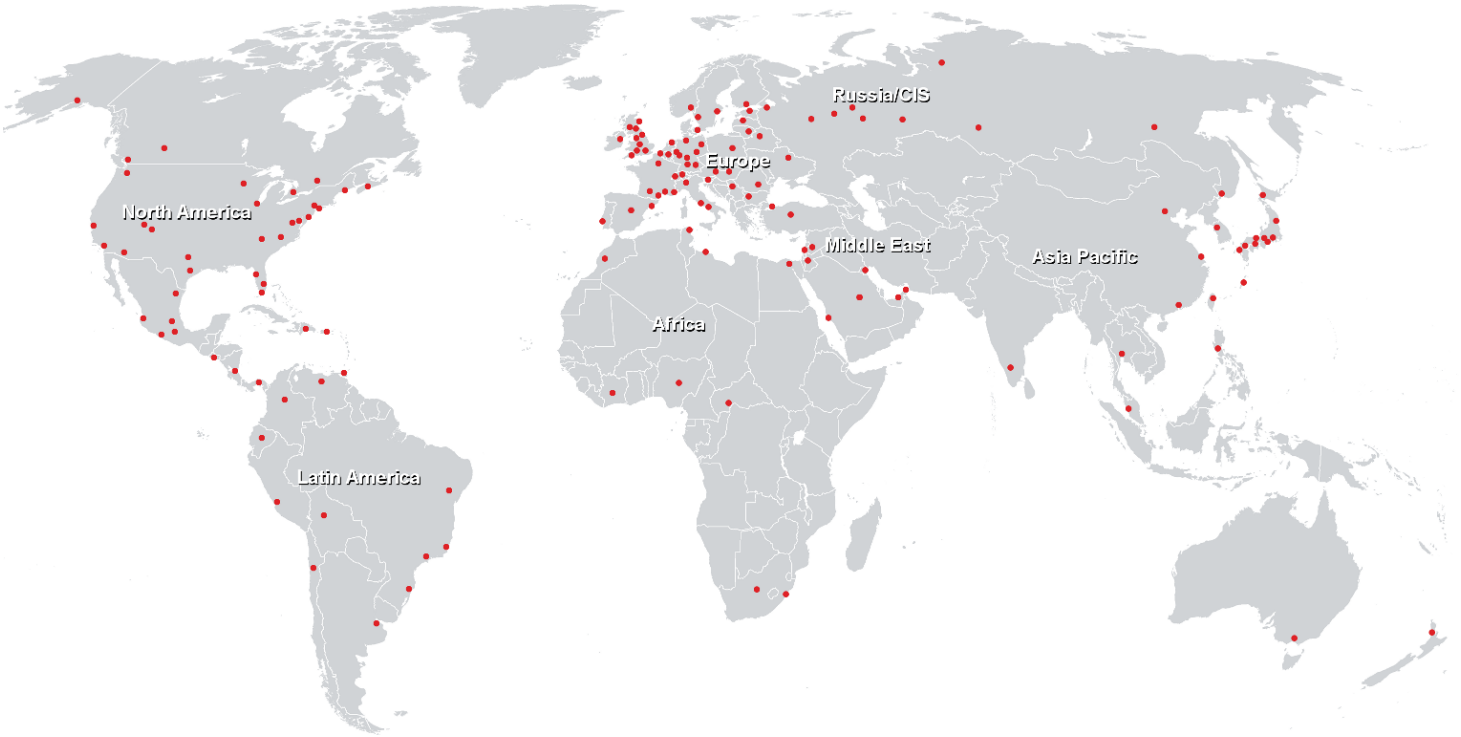
- Introduction
- Understand pipelines
- Use the Copy Data activity
- Use pipeline templates
- Run and monitor pipelines
- Exercise - Ingest data with a pipeline
- Module assessment
- Summary

Organize a Fabric lakehouse using medallion architecture design

- Introduction
- Describe medallion architecture
- Plan a medallion architecture in Fabric
- Query and report on data in your Fabric lakehouse
- Secure and govern your medallion lakehouse
- Exercise - Organize your Fabric lakehouse using a medallion architecture
- Module assessment
- Summary

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