

Microsoft Fabric : Data Factory

Course Description

This 8-hours intensive program introduces participants to Data Factory in Microsoft Fabric, focusing on modern data ingestion, transformation, and migration workflows. Learners will explore pipelines, dataflows, orchestration, and deployment strategies, while gaining hands-on experience with scalable architectures and CI/CD integration. The course emphasizes practical labs to ensure participants can design, implement, and migrate data solutions using Fabric's unified platform.

Duration

1 days(8 hours) OR 2 Days(4 hours)

Prerequisites

- Basic understanding of SQL and data concepts
- Familiarity with cloud platforms (Azure preferred)
- Exposure to ETL/ELT processes and data pipelines
- Optional: experience with Git and CI/CD workflows

Content Coverage

Day 1(4 hours)

Module 1 - Introduction to Data Factory in Microsoft Fabric

- Microsoft Fabric - The unified data platform for AI transformation
- Data Factory in Microsoft Fabric

Module 2 - Ingest data with Data Factory in Microsoft Fabric

- Data ingestion with Pipelines
- Copy activity with Pipelines
- Use parameters and expressions in Pipelines
- Data ingestion with Copy Job
- Mirroring databases in Microsoft Fabric
- Execute, monitor and troubleshoot Pipelines

- Pipeline storage event triggers
- REST API capabilities and CI/CD for Pipelines
- Fabric Pipelines vs. ADF/Synapse Pipelines

Hands on Labs

- Use case 01 - Implementing Medallion Architecture with Data Factory in Microsoft Fabric for Scalable Data Processing

Day 2(4 hours)

Module 3 - Data Transformation with Dataflows Gen2

- Dataflows Gen2 in Microsoft Fabric
- Fast Copy in Dataflows Gen2
- Dataflow Gen2 with CI/CD and Git integration support
- Monitor your Dataflows
- Copilot for Data Factory in Microsoft Fabric
- Workflow Orchestration with Apache Airflow job

Module 4 - Migrate to Data Factory in Microsoft Fabric

- Plan your migration from Azure Data Factory to Data Factory in Microsoft Fabric
- Migrate from Dataflow Gen1 to Dataflow Gen2
- Move queries from Dataflow Gen1 to Dataflow Gen2
- Ingest data into Microsoft Fabric using the Azure Data Factory Copy Activity
- Deployment pipelines

Hands on Labs

- Use case 02 - Standalone Dataflow and Deployment Components