Microsoft Fabric : Real-Time Intelligence

Course Description

This 8-hours program introduces participants to Real-Time Intelligence in Microsoft Fabric, focusing on ingestion, processing, monitoring, and governance of streaming data. Learners will explore Eventhouse, Eventstreams, KQL databases, and Digital Twin Builder, while applying AI-powered insights and Purview governance. Hands-on labs ensure practical experience in building contextualized, predictive, and secure real-time analytics solutions.

Duration

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

Prerequisites

- Basic knowledge of SQL and data concepts
- Familiarity with cloud services and analytics platforms
- Exposure to streaming data or event-driven architectures
- Optional: experience with KQL, monitoring tools, or CI/CD workflows

Day 1 (4 hours)

Module 1: Introduction to Real-Time Intelligence in Microsoft Fabric

- Microsoft Fabric - The unified data platform for AI transformation
- Real-Time Intelligence in Microsoft Fabric
- Implement Medallion architecture with Real-Time Intelligence
- Copilot for Real-Time Intelligence in Microsoft Fabric
- AI-powered Real-Time Intelligence

Module 2: Ingest data

- Work with Eventhouse
- Get, process and route data in Eventstreams
- Get data in KQL Database
- Work with Real-Time hub

- Data modelling with Digital Twin Builder

Hands on labs

- Use Case 1 - Digital Twin Builder for Contoso Energy: Contextualizing data and visualizing insights
- Use Case 2 - Work with Real-Time hub in Microsoft Fabric

Day 2 (4 hours)

Module 3: Implement Real-Time Intelligence in Microsoft Fabric

- Real-Time data processing using Event Processor
- Query data from a KQL Queryset
- Timeseries anomaly detection
- Monitor and visualize your data
- Drive alerts and actions from your data with Activator
- Extend your analytics applications with Microsoft Fabric Extensibility Toolkit

Module 4: Secure and govern real-time data with Microsoft Purview

- Secure real-time data with Microsoft Purview
- Govern real-time data with Microsoft Purview

Hands on labs

- Use Case 3 - Build predictive analytics with ML Model in Microsoft Fabric
- Use Case 4 - Build Real-Time Medallion Architecture in KQL using update policy