

Building advanced analytic solutions on Azure using Synapse Training

Course Duration: 08 Hours

Course Code: AZ-3050-SYN

1. Course Overview

Building Advanced Analytic Solutions on Azure using Synapse Training focuses on designing, implementing, and optimizing analytics solutions using Azure Synapse Analytics. This course helps professionals integrate big data and data warehousing, enabling efficient data processing, reporting, and business intelligence solutions in a cloud environment.

2. What You'll Learn

- Understand Azure Synapse Analytics architecture
- Design data ingestion and integration pipelines
- Work with big data using Spark pools
- Implement data warehousing solutions
- Optimize query performance and data storage
- Build end-to-end analytics solutions
- Secure and monitor analytics workloads

3. Target Audience

- Data Engineers
- Data Analysts
- BI Professionals
- Cloud Engineers
- IT Professionals working with data solutions

- Anyone interested in advanced analytics on Azure

4. Pre-Requisites

- Basic knowledge of cloud computing concepts
- Familiarity with Microsoft Azure fundamentals
- Understanding of SQL and databases
- Basic knowledge of data processing and analytics

5. Course Content

- Introduction to Azure Synapse Analytics
- Synapse Architecture & Components
- Data Ingestion with Azure Data Factory
- Data Storage & Management
- Working with Dedicated & Serverless SQL Pools
- Big Data Processing using Apache Spark
- Data Transformation & Integration
- Performance Optimization Techniques
- Security & Access Control
- Monitoring & Troubleshooting
- Real-time Analytics & Reporting
- End-to-End Project Implementation