

Azure Synapse Analytics Learning Companion

www.aka.ms/pathways

Getting Started

Azure Synapse Analytics is a limitless analytics service that brings together data integration, enterprise data warehousing and big data analytics.

Azure Synapse Documentation

- [Azure Synapse Analytics Introduction](#)
- [What is Azure Synapse Analytics?](#)
- [Azure Synapse Analytics Terminology](#)
- [Azure Synapse Analytics FAQs](#)
- [Azure Synapse Analytics Blog](#)
- [Quickly get started with samples in Azure Synapse Analytics](#)
- [Azure Synapse Pathway: Turbocharge your data warehouse migration](#)
- [Azure Synapse Pathway](#)
- [Introducing Azure Synapse Link for Dataverse](#)
- [Azure Synapse Proof of Concept Playbook](#)

Microsoft Quick Start Tutorials

- [Create and setup a Synapse workspace](#)
- [Analyse using a serverless SQL pool](#)
- [Analyse using Apache Spark](#)
- [Analyse using a dedicated SQL pool](#)
- [Analyse data in a storage account](#)
- [Orchestrate with pipelines](#)
- [Visualize with Power BI](#)
- [Monitor activities](#)
- [Explore the Knowledge centre](#)
- [Add an administrator](#)

Learning Paths from Microsoft Learn

Build data analytics solutions using Synapse serverless SQL pools

Azure Synapse Analytics enables you to apply the SQL skills you use in a relational database to files in a data lake.

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Perform data engineering with Azure Synapse Apache Spark Pools

Apache Spark is a highly scalable distributed processing solution for big data analytics and transformation. You can leverage its power in Azure Synapse Analytics by using Spark pools.

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Work with Data Warehouses using Azure Synapse Analytics

Use Azure Synapse Analytics to implement highly scalable data warehouses in the cloud.

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Transfer and transform data with Synapse Analytics pipelines

Azure Synapse Analytics enables data integration via pipelines, which you can use to automate and orchestrate data transfer and transformation activities.

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Realize Integrated Analytical Solutions with Synapse

Perform different types of analytics through its' components that can be used to build Modern Data Warehouses through to Advanced Analytical solutions.

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Work with Hybrid Transactional and Analytical Processing Solutions

Hybrid Transactional and Analytical Processing (HTAP) is a technique for near real time analytics without a complex ETL solution. In Azure Synapse Analytics, HTAP is supported through Azure Synapse Link.

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Integrate Azure Synapse Analytics with Azure Data and AI services

Learn how Azure Synapse Analytics integrates with other Azure Data and AI services.

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Data integration at scale with Azure Data Factory or Azure Synapse Pipeline

Learn how to create and manage data pipelines in the cloud using Azure Data Factory.

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Going Further

- [Azure Synapse SQL architecture](#)
- [Maintenance schedules for Synapse SQL pool](#)
- [Shared metadata tables](#)
- [Work with Hybrid Transactional and Analytical Processing Solutions using Synapse Analytics](#)
- [Populate slowly changing dimensions in Azure Synapse Analytics pipelines](#)
- [Integrate Azure Synapse Analytics with Azure Data and AI services](#)

Dedicated SQL pool (formerly SQL DW)

- [What is dedicated SQL pool](#)
- [Cheat sheet for dedicated SQL pool](#)
- [Analyse using a dedicated SQL pool](#)
- [Best practices for dedicated SQL pools](#)
- [Dedicated SQL pool architecture](#)
- [Capacity limits for dedicated SQL pool](#)
- [Load Data with dedicated SQL pools using COPY](#)

Serverless SQL pool

- [Analyse using a serverless SQL pool](#)
- [Quick start: Use serverless SQL pool](#)
- [Best practices for serverless SQL pool](#)
- [Tutorial: Explore and Analyse data lakes with serverless SQL pool](#)
- [Tutorial: Use serverless SQL pool with Power BI Desktop & create a report](#)



Azure Synapse Analytics