Azure Synapse Analytics

Key Service Capabilities

Unified analytics platform

Perform data integration, data exploration, data warehousing, big data analytics, and machine learning tasks from a single, unified environment.

Enterprise data warehousing

Build your mission-critical data warehouse on the proven foundation of the industry's top-performing SQL engine.

Code-free hybrid data integration

Build ETL/ELT processes in a code-free visual environment to easily ingest data from more than 95 native connectors.

Cloud-native HTAP

Get insights from real-time transactional data stored in operational databases, such as Azure Cosmos DB, with a single click.

Integrated AI and BI

Complete your end-to-end analytics solution with deep integration of Azure Machine Learning, Azure Cognitive Services, and Power BI.

Serverless and dedicated options

Support both data lake and data warehouse use cases and choose the most cost-effective pricing option for each workload.

Data lake exploration

Bring together relational and nonrelational data and easily query files in the data lake with the same service you use to build data warehousing solutions.

Deeply integrated Apache Spark and SQL engines

Enhance collaboration among data professionals working on advanced analytics solutions. Easily use T-SQL queries on both your data warehouse and Spark engines.

Choice of language

Use your preferred language, including T-SQL, Python, Scala, Spark SQL, and .Net—whether you use serverless or dedicated resources.

End-to-end management and monitoring

Simplify the monotonous, but necessary, data tasks that each team must do—secure your Synapse workspace and we'll take care of the rest.