

# Easy Data Ingestion and Automation

Qlik Data Integration Platform for Microsoft Azure



## INTRODUCTION

Qlik's Data Integration Platform automates real-time data ingestion, streaming, cataloging, and publishing for the Microsoft data platform so data consumers can quickly find and free analytics-ready data — and act on it.

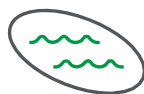
### Data integration and automation is evolving

In today's hyper-competitive business climate, real-time insights are critical. Users need robust data integration, to make decisions fast. Unlike traditional batch data movement and ETL scripting — which are slow, inflexible and labor intensive — Qlik's Data Integration Platform automates the creation of data streams from enterprise transaction systems like mainframes, relational databases and SAP. It efficiently moves data to the Microsoft data platform including Azure Synapse — and makes data immediately available via a catalog experience. With Qlik, users get the frictionless data agility they need to drive greater business value.

The Qlik Data Integration Platform is a complete solution offering a full range of capabilities:



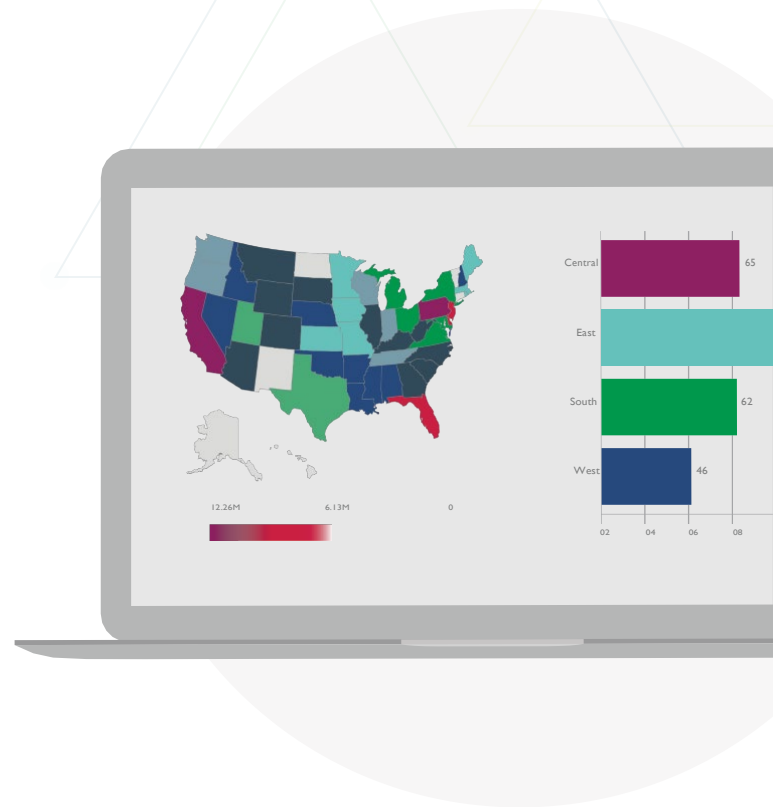
Data Warehouse Automaton



Data Lake Creation

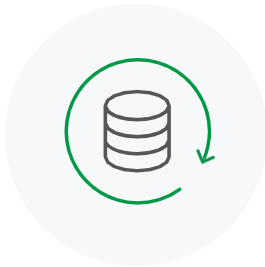


CDC Streaming and Data Migration



# Data Warehouse Automation

Business needs are in a continual state of flux. Data sets are increasingly diverse. To meet the growing need for analytics-ready data delivery at the speed of now, Qlik's Data Integration Platform automates the entire Azure Synapse lifecycle from initial creation to warehouse retirement.



## Real-time data ingestion and update

A simple solution for continually ingesting enterprise data — from a wide variety of heterogeneous databases, data lakes, and enterprise sources like mainframe and SAP - into Azure Synapse in real-time.

- Change data capture (CDC) streams
- Universal sources, targets, and platforms
- Enterprise-wide monitoring and control



## Automated and continuous refinement

A model-driven approach for quickly designing, building, and managing purpose-built data warehouses on-premises or in the cloud. Qlik automates designing the warehouse, generating ETL code, and applying updates — all while leveraging best practices.

- Intelligent model-driven workflow
- Automated ETL, field set, and data mart script generation
- Change management propagation



## Trusted, enterprise-ready data

A secure, enterprise-scale catalog for all the data in Azure Synapse and throughout your organization. Power BI users get a single, go-to data marketplace to find, understand, and use any enterprise data source to gain insights:

- Smart, integrated data catalog
- Data security and governance
- Enhances IT and business collaboration

# Data Lake Creation

Business users need to know that their data is accurate, updated, and trusted for analysis. Qlik data integration for data lake creation automates the data management process for ADLS Gen2. It gives data consumers powerful tools to find, understand, and use data based on their unique needs and security credentials. It also allows data engineers to quickly add new sources and ensure success across the entire pipeline — from real-time data ingest to refinement, provisioning, and governance. Data protection features are easy to administer, even in very large settings with many users, data sources, or complex infrastructure.



## Real-time data streams

Change Data Capture (CDC) moves data to your lake — in real time — from the widest variety of heterogeneous databases, data warehouses, and enterprise sources like mainframe and SAP.

- CDC streams
- Universal sources, targets, and platforms
- Enterprise-wide monitoring and control



## Trusted, enterprise ready data

Qlik builds a secure, enterprise-scale catalog of all the data in your lake and throughout your organization, no matter where it resides. Business users get a single, go-to data marketplace to find, understand, and use any enterprise data source to gain insights.

- Smart, integrated data catalog
- Security and governance
- IT and business collaboration



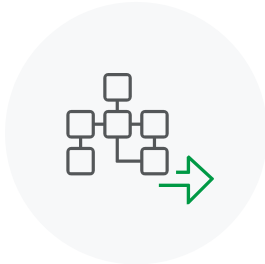
## Automated and continuous refinement

Qlik standardizes and combines change streams into a single transformation-ready data store in the lake. It automatically merges multi-table and/or multi-sourced data into a flexible format that retains full history. The result is that data consumers have fast access to trusted data without having to understand the automated structuring behind it.

- Pipeline automation and orchestration
- Resilient and self-healing
- Prepare and provision at scale

# CDC Streaming and Data Migration

The Qlik Data Integration Platform uses Change Data Capture to efficiently deliver analytics-ready data from a wide range of sources to data warehouses and lakes, streaming, and cloud platforms and quickly moves it into the Microsoft data platform. CDC ensures your data is always current and your source systems aren't impacted.



## CDC

Qlik moves data in real time through a simple graphical interface that completely automates end-to-end replication, allowing data engineers can easily set up, control, and monitor data pipelines with ease.

- Agentless, log-based approach
- Zero footprint architecture
- Optimized for cloud



## Enterprise-wide monitoring and control

Design, execute, and monitor thousands of integration tasks across distributed data centers and cloud environments. Easily scale and monitor data flow, in real time, through KPIs and alerts.

- Centralized management
- Optimized performance and resource utilization
- Open APIs for REST and .NET

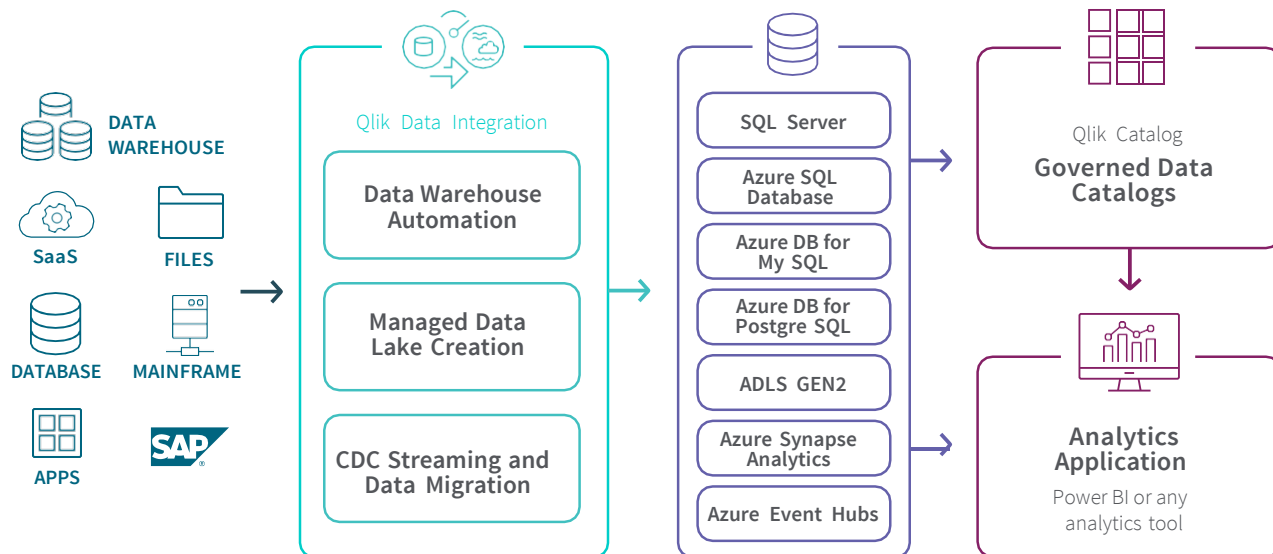


## Universal sources, targets, and platforms

Qlik supports the broadest range of sources and targets, enabling you to load, ingest, migrate, distribute, consolidate, and synchronize data on premise and across cloud or hybrid environments.

- RDBMS: Oracle, SQL, DB2, MySQL, Sybase, PostgreSQL
- Data warehouses: Azure Synapse, Exadata, Teradata, IBM Netezza, Vertica, Pivotal, MS SQL
- Cloud: Azure
- Data Lakes: Databricks, Apache Hadoop, Cloudera
- Streaming Platforms: Apache Kafka, Confluent
- Enterprise Applications: SAP, Salesforce
- Legacy: IMS/DB, DB2 z/OS, RMS, VSAM, COBOL

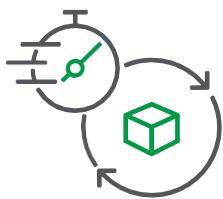
The Qlik Data Integration Platform provides everything you need to ingest and automate data for analytics initiatives based on the Microsoft data platform.



### Qlik Replicate™

Automated, universal, real-time data delivery

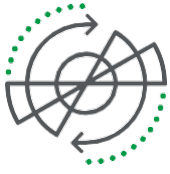
- Change data capture (CDC) across the most comprehensive source and target platform support
- Large volumes of heterogeneous data from source systems
- Real-time delivery to streaming and cloud platforms, data warehouses, and data lakes



### Qlik Compose™

Automated creation of analytics-ready data mart and data lake structures

- Agile, model-driven automation without scripting
- Continuous integration for always-fresh data
- Resilient to source schema drift
- Self-service data mart creation



### Qlik Enterprise Manager™

Command center to configure, execute, and monitor data pipelines at scale

- Metadata management and integration
- Complete governance and security
- Open APIs

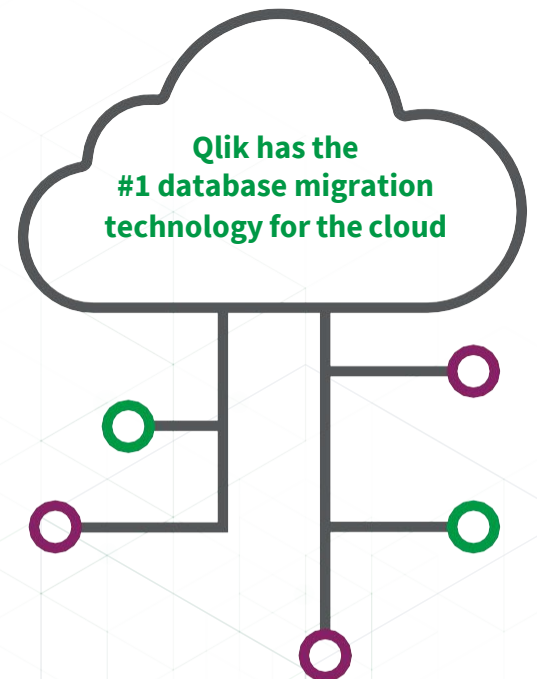


### Qlik Catalog™

Simplifies and accelerates cataloging, management, preparation, and delivery of business-ready data to analytic tools

- Full data profile and automated data tagging
- One simplified view of all your data, including data lineage
- Simple drag-and-drop preparation steps to prepare new data sets, including combination of data sets, row and column filtering, and data transformations
- Actionable data on demand
- Enterprise-grade data management, including data encryption, obfuscation, and user access based on role

Gold  
Microsoft Partner



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### About Qlik

Qlik's vision is a data-literate world, one where everyone can use data to improve decision-making and solve their most challenging problems. Only Qlik offers end-to-end, real-time data integration and analytics solutions that help organizations access and transform all their data into value. Qlik helps companies lead with data to see more deeply into customer behavior, reinvent business processes, discover new revenue streams, and balance risk and reward. Qlik does business in more than 100 countries and serves over 50,000 customers around the world.

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