Actian Avalanche on Azure

Hybrid Cloud Data Warehouse

Highlights

Run ad-hoc queries at unrivaled speed: According to the latest industry benchmark, Avalanche is faster than Snowflake, Amazon Redshift, Google BigQuery, and other cloud data warehouses

Enjoy unbeatable cost savings: Delivers industry's best price-performance while enabling you to pay only for what you use

Future-proof with hybrid multi-cloud architecture: Avalanche can be deployed on Azure, AWS, Google Cloud, virtual private cloud, and on-premises using the same technology

Quickly ingest data using zero-code, self-service menus for hundreds of data sources: Avalanche is the industry's first and only cloud data warehouse to offer no-code, out-of-the-box data preparation and loading capabilities

To stay competitive, data-driven organizations are increasingly compelled to operate in the moment. To do this, they need real-time insights from fresh data. Actian Avalanche on Azure enables delivery of critical operational insights, with continuous updates reflecting business changes—making it the ideal foundation for your Enterprise Data Warehouse.

Delivering the best of both worlds—high performance at low cost

Actian Avalanche is designed from the ground up to deliver unrivaled performance on commodity infrastructure without the need for DBA tuning and optimization techniques.

For the same cost as alternative solutions, you can benefit from substantially better performance or choose the same performance for significantly lower cost. For example, Avalanche provides on average **6X price-performance advantage over Snowflake** as measured by GigaOm's TPC-H performance benchmark study and even more against many of the appliance vendors. As you increase workload complexity and number of concurrent users, Avalanche outperforms by even wider margins.

Hybrid, Multi-Cloud Deployment Opportunities for Maximum Flexibility

Avalanche is the industry's first hybrid data warehouse solution that can be deployed on all three leading cloud platforms (Azure, AWS, Google Cloud) as well as on-premises.

Whether you are running Avalanche in the cloud or on-premises, you can leverage the same database engine, the same physical data model, the same ETL/ELT tools, and the same BI tools of your choosing. You gain all the benefits of a modern cloud deployment such as elastic and independent scaling of compute and storage while retaining the flexibility to keep on-premises applications for as long as you need.
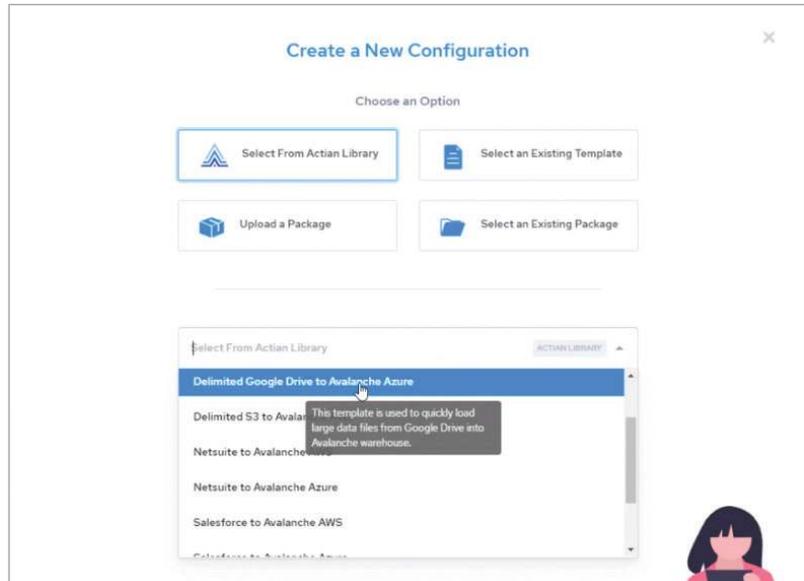
Built for Real-Time Performance

With Avalanche, you can achieve sub-second response on ad-hoc BI queries using the freshest data. Unlike other cloud data warehouses, Avalanche enables real-time updates to data in the data warehouse without adding latency. You can be assured of accessing the latest data to power your analytics without paying a performance penalty.

Features

- Highly scalable MPP relational analytics database

- One-touch deployment of clusters across multiple clouds from a single user interface

- Industry's fastest performance at scale with no tuning required

- High-speed ADLS Gen 2 storage

- Perform queries on live data with updates enabled through patented algorithms that do not impact read performance

- Fully SQL-2016 compliant

- Python, SQL and JavaScript UDF support

- Support for diverse data types, including JSON

- Open industry standard data access, including Spark, ODBC, JDBC, .NET

- Universal connectivity to enterprise and SaaS applications

- Comprehensive security features, including SOC-II compliance, built-in data masking, customer-managed keys, enterprise firewalls, AES 256-bit data encryption, etc.

Gold
Microsoft Partner | Azure Expert MSP
Microsoft

Avalanche provides a library of out-of-the-box connections so you can easily populate data.

Quickly move data from all your applications to Avalanche

Avalanche is the industry's first and only cloud data warehouse to offer no-code, out-of-the-box data preparation and loading capabilities built into the product. This simplifies and accelerates data warehouse deployment and makes it easier than ever for enterprises to immediately gain value from their distributed data. Further, it virtually eliminates the traditional cost and complexity of having to manage a standalone data integration product in conjunction with an enterprise data warehouse.

Avalanche offers drag-and-drop, menu-driven tools for data preparation of semi-structured data, including JSON, XML, and .CSV sources. With over 200 pre-built, extensible connectors and templates for popular SaaS and on-premises applications, you can bypass intricate ETL processes and quickly move data into Avalanche. Its patented Universal Connect component enables you to quickly connect any custom data source or application.

"Price and performance are critical points of interest...our analysis reveals Avalanche to be the industry leader on this criterion."

– GigaOm Research, High Performance Cloud Data Warehouse Performance Testing, 2020