

5 WAYS A DATA LAKEHOUSE BUILDS YOUR AI MOMENTUM

Data lakehouses combine the best of both worlds — the massive scalability of a data lake, with the structured, transactional power of a data warehouse.



This means all your data can coexist, be properly governed, and easily accessed for smarter insights. **Here's how a data lakehouse gives you the upper hand in the AI era.**

A SINGLE SOURCE OF TRUTH

1

A data lakehouse stores data in any format—structured, unstructured, or semi-structured—at a low cost. The data can then be accessed for AI and real-time analytics. The shared repository reduces data duplication and streamlines management.

81% of enterprises now use data lakehouses to support AI models and applications.¹

FLEXIBLE ANALYTICS

2

Data lakehouses support all kinds of analytics, ranging from traditional business intelligence (BI) to more advanced machine learning (ML) and next-gen AI—without sacrificing performance or flexibility.

Data lakehouses enable faster queries for predictive, descriptive, and generative AI.



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ROBUST DATA GOVERNANCE

3

Data lakehouses bring warehouse-style governance to your raw data. Features like schema-on-read enforcement, data cleansing, and auditing ensure data integrity—and facilitate compliance.

Data lakehouses with built-in governance models can reduce compliance effort by **30–50%**.²

SCALABILITY FOR NEXT-GEN AI

4

Data lakehouses can store huge datasets without constant expansions or migrations. Plus, compute and storage layers scale independently, so the infrastructure scales smoothly alongside business needs.

Modern data lakehouses use tiered storage with optimized compute layers for AI/ML, analytics, and enterprise applications.



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IMPRESSIVE ROI

5

By consolidating storage into one platform and using low-cost object storage for large data volumes, data lakehouses reduce redundancy, cut costs, and improve agility.

56% of organizations cut their data warehouse costs in half by moving to a data lakehouse.³

FUTURE-PROOF YOUR DATA LAKEHOUSE WITH SUPERMICRO AND AMD

Supermicro servers with AMD EPYC™ processors deliver both high performance and high scalability, so your data lakehouse can evolve with data growth and changing business demands.

Optimized Storage

Supermicro's Petascale all-flash servers provide high-density NVMe storage to speed analytics and AI/ML requests.

High-Performance Computing

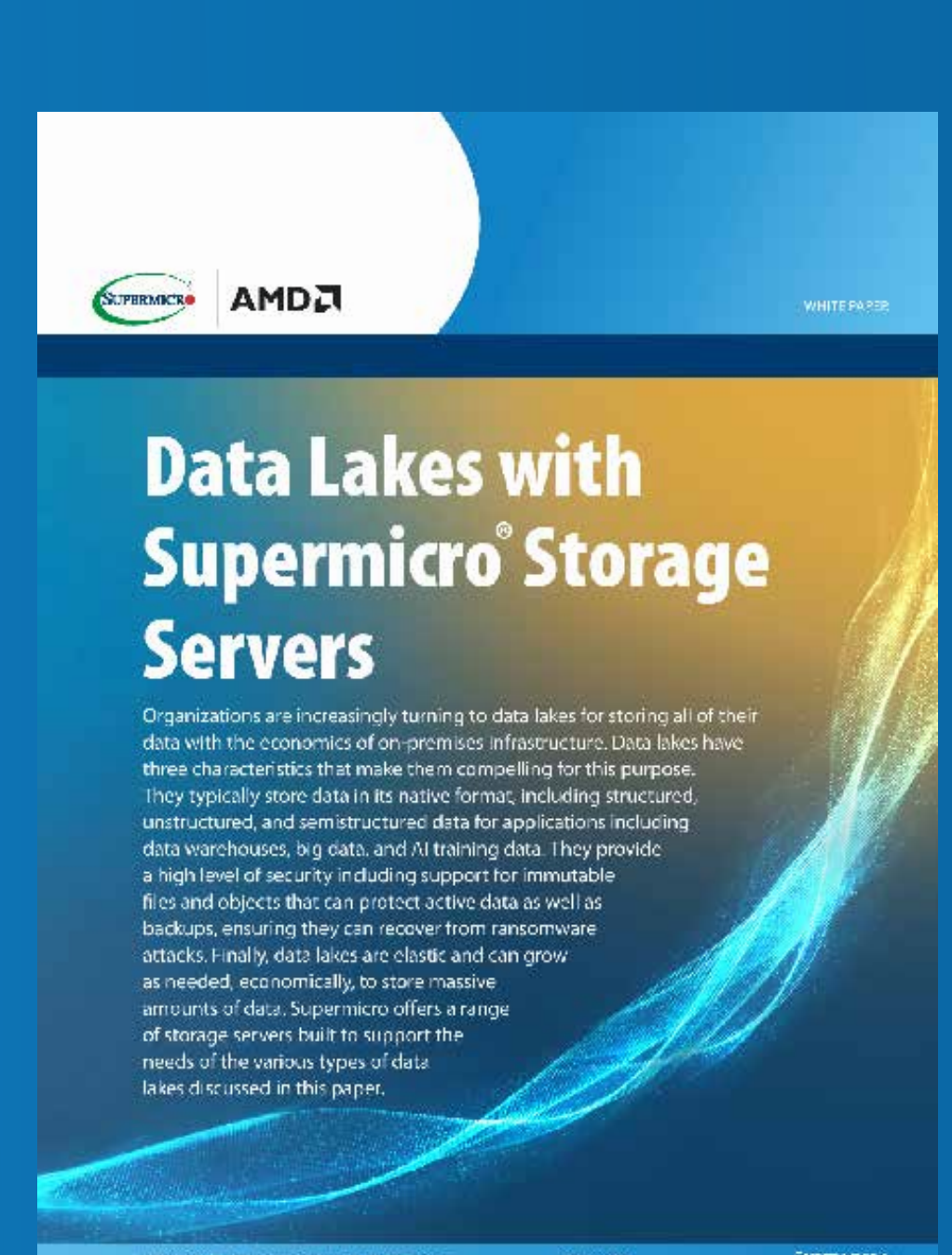
Supermicro servers with 5th Gen AMD EPYC™ processors ensure high-speed data access for faster processing and low latency.

Modular Scalability

Select from 1U, 2U, multi-node, and blade servers, all compatible with 5th Gen AMD EPYC™ processors, for agility and cost efficiency.

Energy Efficiency:

Supermicro servers with AMD EPYC™ processors speed time to insights while minimizing energy consumption.



ARE YOU READY TO GET STARTED?

Discover how Supermicro storage servers with the latest AMD EPYC™ processors can help you stay ahead.

[Learn More](#)

¹ https://www.dremio.com/wp-content/uploads/2023/11/whitepaper-2024-state-of-the-data-lakehouse_report.pdf
² Forrester, 2024
³ <https://www.upsolver.com/blog/cut-data-warehouse-costs-in-half-with-apache-iceberg>