

Accelerate AI with an open, modern data lakehouse

Discover, query and prepare data for AI with the Dell Data Lakehouse, your AI-ready, secure, full-stack data management solution.

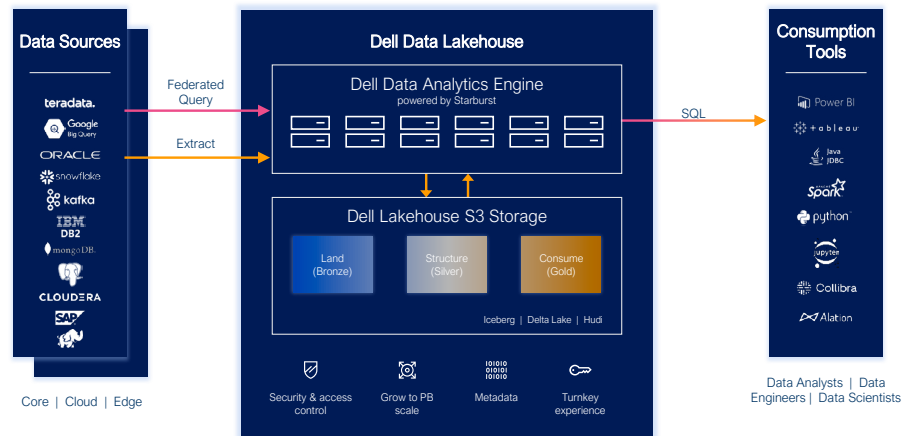
3-5x
Faster queries¹

Up to
53%
Reduction in the cost of data analytics¹

3x
faster deployment with ProDeploy or ProDeploy Plus³

AI loves data, but many enterprises are still scratching the surface. Accessing, exploring and transforming data spread across disparate environments remains a major roadblock due to rapid growth of data (and its copies), proliferating sources, formats and tools, and escalating costs. Since most data remains on-premises, customers are forced to either stitch together a complex web of tools or move their entire data estate to the public cloud. Enterprises are stuck between a rock and a hard place and deserve a better answer.

Introducing the Dell Data Lakehouse, an open and modern data lakehouse that helps eliminate data silos, accelerate insights and democratize data analytics and AI. Powered by Starburst's secure, federated and extreme performance query engine based on Trino, enterprises can easily get access to data anywhere, rapidly prototype and create data products. IT teams can see real time usage patterns and centralize only the most useful data into the data lakehouse in open formats reducing cost and complexity.



Enterprises can benefit from a more cost-effective and predictable outlay versus cloud-based options. Dell Data Analytics Engine enables 3x-5x faster time to insight at half the cost of other comparable technologies.¹ Dell ECS storage can save up to 76% in total cost of ownership versus public cloud offers.² And finally, Dell Lakehouse System Software can deliver additional savings by simplifying deployment and lifecycle management.

What is a data lakehouse?

A data lakehouse integrates the flexibility and scalability of a data lake with the structure and query capabilities of a data warehouse. With Dell as a leader in storage technology being the data lake and Starburst bringing high performance data warehousing analytics as the warehouse component, together, they make the Dell Data Lakehouse.

Why is object storage recommended?

A best-in-class object storage is essential to realize all the benefits of a data lakehouse. Dell's Object Storage offerings - like Dell's ECS, which offers 76% lower TCO than public cloud², or Dell's ObjectScale, the world's most powerful object storage appliance for Kubernetes² - combined with the power of the Dell Data Lakehouse allows organizations to modernize their data strategy to prepare for an AI-driven future.

Learn more about:

- ObjectScale
- ECS
- PowerScale

Fast track your insights with our help

Dell Services provide the guidance and expertise you need to modernize your data environment and accelerate AI outcomes:

Accelerator Services for Dell Data Lakehouse

Implement and optimize your Dell Data Lakehouse platform to accelerate AI and data analytics

Dell Advisory Services Subscription for Data Analytics Engine

Leverage a flexible, dedicated expert to maximize value from the data analytics engine

ProDeploy for Infrastructure suite

Deploy hardware up to 3X faster³ and reduce support calls by up to 58% in the first 90 days⁴ by using our experts.

ProSupport for Infrastructure suite

If a critical support issue happens, you need to be up and running asap. ProSupport Plus provides up to 34% faster resolution⁵ of support issues.

Specialty assistance

PSX for Backup and/or Cyber Recovery, and training services are available to help you achieve a smooth and quick transition to the Data Lakehouse solution to meet your business outcomes.

Technical Specifications

The Dell Data Lakehouse is a turnkey solution comprising the Dell Data Analytics Engine, a powerful federated and data lake query engine powered by Starburst, Dell Lakehouse System Software that provides lifecycle management and tailor-made compute hardware all integrated into one. For storing and processing large datasets in open table formats, Dell's leading S3-compatible storage platforms such as ECS, ObjectScale and PowerScale offer exceptional performance, reliability and security.

Software	Dell Data Analytics Engine, powered by Starburst
	Dell Data Lakehouse System Software
Scale-out Compute	Dell Lakehouse Compute (based on Dell PowerEdge)
Scale-out S3 Storage	Recommended for use with ECS II ObjectScale II PowerScale



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¹Cloud Data Warehouse vs. Cloud Data Lakehouse: A Snowflake vs. Starburst TCO and Performance Comparison, published by GigaOm

²ESG Economic Validation sponsored by Dell Technologies, "Analyzing the Economic Benefits of Dell ECS: Economic Benefit Analysis of On-premises Object Storage versus Public Cloud," by Tony Palmer, July 2022. Cost savings based on ESG comparison of ECS to a leading public cloud in active storage scenarios.

³ Based on a May 2023 Principled Technologies study "Using Dell ProDeploy Plus Infrastructure can improve deployment times for Dell technology"

⁴ Based on a July 2022 internal analysis of support data from February 2022 through July 2022.

⁵ Based on an internal analysis of service requests from the prior two years for Dell Technologies data protection and high-end storage products covered by ProSupport Plus for Infrastructure vs. products with Basic coverage, February 2024. Actual results may vary.

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