

Dell Data Analytics Engine

Accelerate Insight Across All Data With Unified SQL Querying

3-5x

Faster queries¹

Up to
53%

Reduction in the cost
of data analytics¹

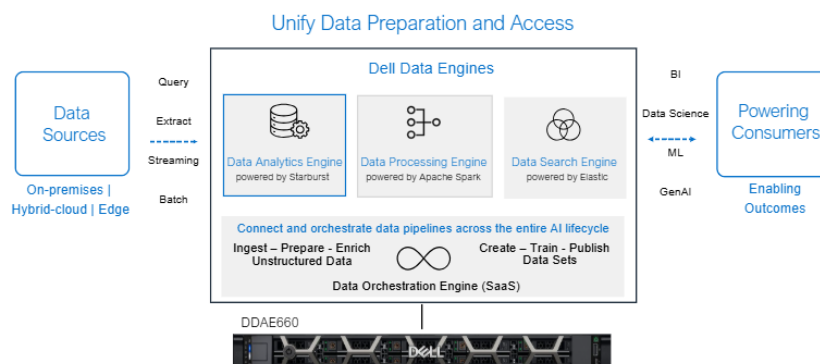
3x

faster deployment
with ProDeploy or
ProDeploy Plus²

In today's data-driven world, effectively managing and utilizing data is a key advantage. Yet, data scattered across diverse systems and formats poses significant challenges for data engineers and IT architects striving to unify it for essential AI and analytics tasks.

Dell's AI Data Platform (AIDP) is purposefully designed to tackle these challenges head-on. It focuses on enabling three key outcomes when working with data:

- **Placement of Data:** Store data on high-performance storage to deliver efficiency at scale—supporting data ingestion, AI model training, fine tuning, and inferencing.
- **Processing Data:** Ensure seamless, unified access to all enterprise data—empowering analytics and AI by transforming raw data into ready-to-use assets.
- **Protecting Data:** Enable secure, compliant operations with built-in data protection and cyber resiliency you can trust.



Unified analytics engine

Dell Data Analytics Engine is a high-performance, distributed SQL query engine built for unified analytics and AI across all your data. It connects directly to relational databases, data lakes, object stores, and NoSQL systems, eliminating the need for data copies and consolidation. Teams benefit from fast, consistent access to both structured and semi-structured data, accelerating decision-making and reducing operational costs. As organizations face a shifting data landscape with rising expectations, Dell Data Analytics Engine provides a single, secure solution to query across sources without moving data or locking into one platform.

This approach ensures governed access, supports modern analytics and AI, and delivers the agility needed to meet evolving business demands.

Key Capabilities:

Seamless Connectivity

Organizations thrive when they can easily connect their most valuable information. We can help you build a modern foundation that links relational databases, data lakes, object stores, and NoSQL systems. This creates a single environment where teams can find exactly what they need to act quickly. A connected data platform adapts effortlessly as your business grows. When you integrate your information sources seamlessly, you empower your people to collaborate better, solve complex challenges, and drive real progress across the entire organization.

Query Across Data Sources

With federated SQL queries using Starburst, you can tap into all your data sources — relational databases, data lakes, object stores, or NoSQL — using familiar SQL skills. This means you can access up-to-date insights instantly, without the delays and expense that come with moving or consolidating data. Querying information in place helps your teams get the answers they need to drive progress. By removing barriers to information, you enable faster collaboration, informed decisions, and meaningful results at every level.

Fast, unified Analytics

Timely insights turn data into opportunity. With a distributed query engine, you can bring together information from multiple sources instantly, using parallel execution to deliver analytics at speed and scale. Instead of moving data or waiting for individual queries to complete, this approach enables real-time answers by accessing what you need directly from each system. Your teams quickly uncover patterns and make informed decisions, accelerating innovation and amplifying results across your organization. When speed and access matter, unified analytics become a true catalyst for progress.

Open Table Formats

Teams excel when data is easy to access and put into action. Apache Iceberg equips you with powerful features, including reliable ACID transactions, flexible time travel, seamless schema updates, and scalable performance for any volume of data. We support you in building a modern data foundation with open table formats using Iceberg, providing teams with a high-speed, trusted environment so they can quickly find what they need to drive results.

Dell DDAE660:

The Dell DDAE660 is a high-performance appliance that simplifies IT operations while delivering scale and efficiency required to run the Data Analytics Engine. As a key foundation for this ecosystem, the DDAE660 offers:

- **Enterprise Ready Features:** Integrates seamlessly into your environment with built-in redundancy for high availability, active/passive disaster recovery, and robust security measures like SSO and encryption.
- **Built for Scalability:** Allows your organization to easily expand by adding nodes as your data grows
- **Simplified Management:** Benefits from managed upgrades and embedded Kubernetes, OS, middleware, and database support. With its out-of-the-box features, the DDAE660 empowers IT teams to achieve faster time to production, reduced downtime, and significant operational cost savings..

Fast-Track Your Insights with Our Help

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

- **Implementation Services for Dell AI Data Platform:** Deploy and optimize your Dell Data Engines to accelerate AI-driven insights and data analytics outcomes
- **Optimization Subscription for Dell AI Data Platform:** Access a flexible, dedicated expert to continuously enhance your Dell Data Engines and unlock more value from your AI and analytics initiatives.
- **ProDeploy for Infrastructure Suite:** Deploy hardware with expert assistance to reduce complexity and accelerate implementation.
- **ProSupport for Infrastructure Suite:** Gain access to critical support to ensure you are up and running as quickly as possible when issues arise.



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

² Based on a May 2023 Principled Technologies study “Using Dell ProDeploy Plus Infrastructure can improve deployment times for Dell technology”

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