

Simplifying Enterprise Analytics Across Systems With Teradata Fabric

Built for modern data management and analytics

Organizations face growing challenges in managing data across multiple systems, platforms, and clouds. This fragmentation creates silos that hinder data access, slow down analytics, and complicate governance. When data remains trapped in isolated systems, AI projects suffer from incomplete training data, reduced model accuracy, and limited scope of analysis—ultimately undermining the transformative potential of AI investments.

Introducing Teradata Fabric

Teradata Fabric helps solve the problem of managing data spread across different systems and platforms. It lets users run secure, high-performance analytics on data without need in to move it, no matter where it lives. Built into Teradata Autonomous Knowledge Platform, Teradata Fabric offers enterprise-grade scalability, flexibility, and easy integration—while keeping data well managed and governed. It turns disconnected data sources into a connected analytics ecosystem, so organizations can use all their data more effectively.

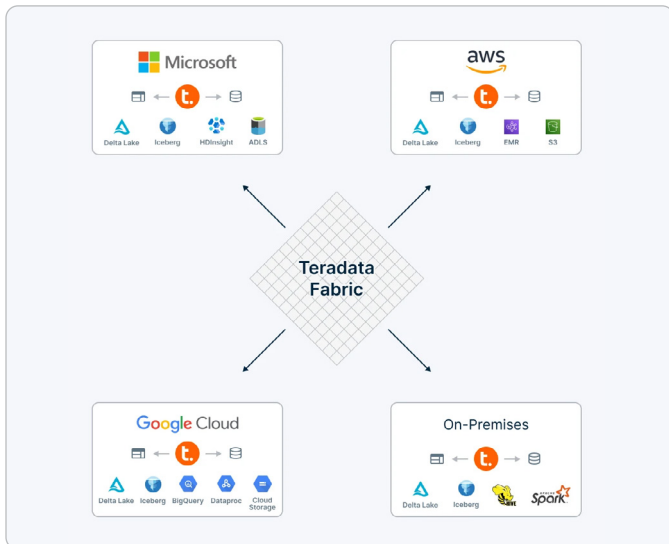


Figure 1: Teradata Fabric

Accelerate insights with seamless data access

Teradata Fabric removes data silos by giving users easy access to data across different systems through a single query. It lets you seamlessly join data from Teradata systems with external sources, including Hadoop, cloud data lakes, NoSQL databases, and more—without needing to understand the underlying technical complexities. This streamlined access eliminates the need for complex data movement (ETL processes) and allows analysts to work with all their data as if it were in one place, leading to deeper insights and faster decisions.

Optimize query performance with intelligent processing

Teradata Fabric boosts performance by automatically choosing the best way to run each query. It figures out whether to process data at the source, the target, or both—based on things like data size, system power, and network speed. This smart pushdown processing approach helps queries run faster and use fewer resources, even when working across different systems. With Arrow Flight SQL integration, Teradata Fabric leverages its columnar design to provide even more efficient use of compute and network resources—making it faster and more efficient.

Reduce costs with minimal data movement

Teradata Fabric helps lower costs by letting you analyze data where it already lives—without needing to copy or move large amounts of it. This reduces storage costs, saves network bandwidth, and avoids the hassle of keeping data in sync across systems. It also reduces data security risk and ensures analysts are working with the most up-to-date information. Teradata Fabric achieves this through smart pushdown processing and remote optimizations, powered by Teradata's industry-leading query optimizer.

Transforming your enterprise data strategy

Teradata Fabric helps organizations get more value from their data by connecting systems, removing silos, and enabling fast, cost-effective analytics. It supports a wide range of use cases—from real-time operational analytics and Customer 360 views to regulatory reporting and advanced AI/ML development. With seamless access to complete data across systems, financial institutions can detect fraud, retailers can track inventory and customer behavior, and healthcare providers can analyze patient data across clinical systems.

About Teradata

Teradata Autonomous Knowledge Platform activates enterprise intelligence by unifying data, knowledge, and business context, for real-time outcomes. Enterprises can combine these for impact, connecting and scaling across any environment whether it's in the cloud, on premises, or hybrid to deliver the full value of AI. [Learn more at Teradata.com.](https://www.teradata.com)



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