

WHAT'S NEW IN DATASTAX ENTERPRISE 6

DataStax powers the Right-Now Enterprise with the always-on, distributed cloud database built on Apache Cassandra™ and designed for hybrid cloud. DataStax Enterprise 6 (DSE 6) includes industry-leading performance, self-driving operational simplicity, and robust analytics.

INDUSTRY-LEADING PERFORMANCE

Right-Now Economy applications demand the highest responsiveness, even when demand surges unpredictably. DSE Advanced Performance is a new set of performance-related optimizations, technologies, and tools that dramatically increase DSE's performance compared to DSE v5.1 and open source Apache Cassandra™. DSE Advanced Performance offers:

- ✔ **Double the performance:** compared to Cassandra, resulting in 2x or more throughput for both reads and writes.
- ✔ **Advanced Apache Spark™ communication layer:** delivers a number of improvements for analytical queries, including a 3x query performance increase.
- ✔ **DataStax Bulk Loader:** allows you to rapidly move data into and out of DSE up to 4x faster than other data loading utilities.

SELF-DRIVING OPERATIONAL SIMPLICITY

Right-Now Economy applications must be operationally easy to manage so that teams can focus on innovation instead of operational overhead. The improvements in DSE 6 are so significant that even novice DBAs and DevOps professionals can run DSE 6 like seasoned professionals. Ultimately, that means much easier enterprise-wide adoption of data management at scale.

- ✔ **DSE NodeSync:** removes manual “repair” maintenance operations by keeping data synchronized in DSE clusters in a transparent and continuous fashion. NodeSync frees resources to allow you to focus on the core business, and by making applications run more consistently, it also improves planning predictability.
- ✔ **DSE Upgrade Service:** effortlessly handles patch upgrades by automatically notifying you that an upgrade is available, downloading the software you need, applying it to a cluster with zero downtime, and freeing you to do other things.
- ✔ **DSE TrafficControl:** delivers advanced resiliency that ensures DSE nodes stay online under extreme workloads.

ROBUST TRANSACTIONAL ANALYTICS

DSE 6 delivers the most scalable and highly available analytics for real-time insights on transactional data.

- ✔ **AlwaysOn SQL:** brings nonstop reliability to your existing investment in SQL tools and expertise for BI, ETL, and application data pipelines.
- ✔ **Apache Spark Structured Streaming:** enables simple, efficient, and robust streaming of data from Apache Kafka, file systems, or other sources.
- ✔ **DataStax Studio 6 Notebook support for Spark SQL:** a visual and intelligent query-builder interface for writing Spark SQL queries and reviewing and sharing the results.

To learn more about the different subscription models Datastax has to offer, please click [here](#).

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ABOUT DATASTAX

DataStax delivers the always-on, active everywhere distributed hybrid cloud database built on Apache Cassandra™. The foundation for personalized, real-time applications at scale, DataStax Enterprise makes it easy for enterprises to exploit hybrid and multi-cloud environments via a seamless data layer that eliminates the issues that typically come with deploying applications across multiple on-premises data centers and/or multiple public clouds.

Our product also gives businesses full data visibility, portability, and control, allowing them to retain strategic ownership of their most valuable asset in a hybrid/multi cloud world. We help many of the world's leading brands across industries transform their businesses through an enterprise data layer that eliminates data silos and cloud vendor lock-in while powering modern, mission-critical applications. For more information, visit www.DataStax.com and follow us on Twitter [@DataStax](https://twitter.com/DataStax).

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