



# DataStax Enterprise

DataStax Enterprise (DSE), built on Apache Cassandra™, is the world's most powerful hybrid database for modern applications, well known for 100% uptime, unmatched low latency, and the ability to handle massive data at planetary scale. DSE delivers capabilities used by the best internet companies, and adds enterprise features hardened by demanding, modern use cases in e-commerce, customer loyalty, banking, IoT, supply chain, etc. at global leading companies, including 40 of the Fortune 100.

## The DataStax Enterprise Advantage

### *The Best Hybrid Data Platform for Applications that Matter*

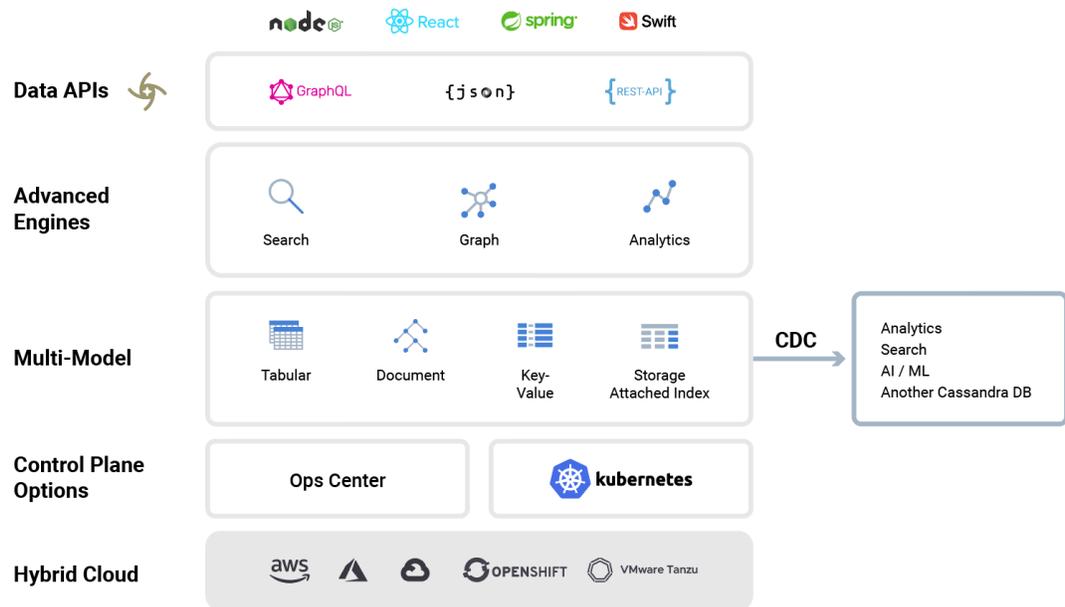
Built-in high availability and scalability in your cluster and data centers, across clouds, whether in your own private cloud, public clouds, or hybrid environments, without being locked in to any cloud vendor.

### *High Performance NoSQL and Advanced Workloads on One Platform*

Blisteringly fast write and read transactions for NoSQL workloads (key-value, tabular, document, and graph), and also advanced workloads like search and analytics.

### *Increased Productivity, with Peace of Mind*

Gain all the benefits of Cassandra, with increased productivity for developers and operators, and technical support from Cassandra experts who actively contribute to the Cassandra project.



For enterprises that want to self-manage their own NoSQL databases with additional enterprise capabilities, DataStax Enterprise is the most performant and open hybrid data platform that reduces operational burden, avoids vendor lock-in, and unleashes developer productivity. It amplifies the benefits of Cassandra with superior performance, advanced workloads, and trusted security.



*“The DataStax Enterprise environment is a horizontally scalable data environment, so as the demands on that environment increase, we simply add more nodes to the cluster and that continues to expand the capabilities. All of this can be done with zero downtime. That is a really key capability.*

**Ken Chenis**, Chief Architect, ACI Worldwide



*“DataStax Enterprise gives us the power to change information in our supporting systems into actionable insights with historical views into account statuses. This was previously impossible with relational technologies. With Apache Cassandra and DataStax Enterprise as our database infrastructure, we can not only scale but give our users a real-time, engaging customer experience.”*

*Micky Csasznik-Shaked, Technology Lead, Mint Bills (Intuit)*



## Capabilities and Benefits

CAPABILITIES	BENEFITS
<b>Kubernetes Ready</b>	Increase operational productivity 3x by provisioning DSE’s Cassandra workloads on Kubernetes.
<b>Ops Center</b>	Automate the lifecycle management of DSE clusters and monitor the health status of clusters with a visual management tool.
<b>Developer Friendly</b>	Bring applications to market faster by using modern data APIs (Stargate) such as REST, GraphQL, and Schemaless JSON. Or continue to use CQL or native drivers for Java, C/C++, C#, Python, Node.JS, and Go.
<b>Multiple NoSQL Models</b>	Gain the flexibility to develop using all styles of NoSQL data models including key-value, tabular, document, and graph.
<b>Graph</b>	Write fast to Cassandra and query it in real-time using our graph traversal language. Build multi-model applications with joins, matching, and traversals over large distributed Cassandra data sets through graph queries.
<b>Fast Secondary Index Queries</b>	Query any column without being restricted to the primary key using Storage Attached Indexing (SAI), with minimal impact on performance.
<b>Search</b>	Ship search capabilities (full-text search, stemming, faceting, ranking, probabilistic completion, and geospatial search) with the scalability and resiliency of Cassandra.

<b>Analytics</b>	Save license and setup costs and enable fast analytical queries with no ETL using the embedded Sparks engine, or bring your own Sparks cluster.
<b>Zero Copy Streaming</b>	Scale-out during peak demand periods and perform business continuity tasks far more quickly with up to 4x faster node addition, removal, and recovery.
<b>Unparalleled Scalability and Performance</b>	Easily grow your Cassandra cluster to petabytes of data, and your graph data to billions of edges and vertices. Scale out to hundreds of thousands transactions per second by simply adding nodes while maintaining unmatched read/write latency.
<b>Zero Downtime Migration</b>	Seamlessly transfer data from open source Cassandra to DSE using our bulk data loader and without any business disruptions with zero downtime migration tool.
<b>RDBMS-to-Cassandra Accelerator</b>	Probe relational databases you want to modernize to discover the source tables, relations, and query patterns. Visualize the source business logic and design new tables based on the automatically recommended Cassandra data model.
<b>CDC for Apache Cassandra</b>	Create a real-time pipeline from DSE to the rest of the data ecosystem (or vice versa), to support a more robust microservice oriented architecture, or enable engines such as Elasticsearch, real-time analytics, or other Cassandra clusters.
<b>Enterprise Grade Security</b>	Secure data and protect privacy using: <ul style="list-style-type: none"> <li>• Encryption in flight (TLS) and at rest (TDE)</li> <li>• KMIP security policies</li> <li>• Role-based access control (RBAC)</li> <li>• Row-level access control (RLAC)</li> <li>• United authentication (Kerberos, LDAP)</li> <li>• PCI Support</li> </ul> <p>Detect and prevent potential breaches through configurable auditing and log scanning and filtering.</p>

## More Info

- [Download DataStax Enterprise](#) to try on your own data center or cloud.
- Check out the vibrant [Community](#) and [DataStax for Developers](#).
- [Contact us](#) to discuss how you can use DataStax Enterprise in your organization.

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