

DataStax Overview

Apache Cassandra™ for a Changing World

Apache Cassandra, an Apache Software Foundation project, is an open-source NoSQL distributed database system. Cassandra is the modern database technology designed to handle big data workloads across data centers and clouds with its unprecedented scalability, availability and performance.

The rise of big data demands a modern transactional database to accommodate the ever-growing data amount with high complexity and velocity. Cassandra is purpose-built to scale linearly to handle these challenges. Cassandra's masterless architecture guarantees around-the-clock availability for mission critical applications Web, mobile and IOT applications. Its fully distributed nature allows for blazing performance at extreme data velocities and delivers operational simplicity.

DataStax Delivers Cassandra and Beyond

DataStax delivers Apache Cassandra in a database platform – DataStax Enterprise – purpose built for the performance and availability demands of Web, Mobile, and IOT applications. DataStax Enterprise gives enterprises a secure always-on database that remains operationally simple when scaled in a single datacenter or across multiple datacenters and clouds.

DataStax Enterprise includes:

1. DataStax Enterprise Server
2. DataStax OpsCenter
3. Expert Support and Services

DataStax Enterprise transforms traditional businesses into Internet Enterprises with excellent functional capabilities and lower total cost of ownership over traditional relational databases.

Benefits of DataStax Enterprise:

- Production-Certified Cassandra
- Comprehensive enterprise security
- Automatic management services
- Visual management and monitoring
- Around-the-clock expert support and services
- Built-in enterprise search
- Integrated streaming, real-time, batch analytics, and Hadoop integration
- In-memory option for lightning-fast transactional and analytic workloads



Distributed Database for Internet Enterprises

- Scale to any size
- Always-on architecture
- Best in class for multi-data center and cloud deployments
- Handles transactional, analytical, search, and in-memory workloads in a single database cluster

Production Certified Cassandra

- Certified version of Cassandra ready for production environments
- Extensive quality assurance testing under heavy workloads
- Proven to scale on 1,000 node deployments across Amazon and Google
- Platform certification for compatibility with popular operating systems
- Validated to work with third party software (e.g. BI tools)
- Full software lifecycle and patch management

Expert Services and Support

- 24x7x365 expert support
- Certified software updates
- Hot-fixes for emergency situations
- Bug escalation privileges
- Expert system health reviews

Enterprise Data Protection

- Full user authentication and authorization
- Seamless Kerberos, LDAP and Active Directory integration
- Transparent data encryption for sensitive data, along with client-to-node and node-to-node encryption of data
- Data auditing for tracking all activity
- Smart enterprise backup (local or cloud) with point-in-time restore