

# Defining Enterprise NoSQL

MarkLogic® handles the volume, velocity, and variety of data like other NoSQL solutions, **AND** has built, tested, and deployed the enterprise features necessary to run at the heart of your organization. Without enterprise features such as ACID transactions, scalability and elasticity, government-grade security, high availability and disaster recovery, and monitoring and performance tools, a database is simply not enterprise-grade.

MarkLogic was founded in 2001, almost 10 years before most NoSQL databases were even created. MarkLogic has deployed more customer-facing big data applications in large organizations than any other NoSQL database, including mission-critical applications at top investment banks, global media companies, and government agencies. With MarkLogic, these organizations can handle hundreds of terabytes of data, thousands of transactions per second, and multiple changing data types—all with the security and reliability that organizations expect from an enterprise-grade database.



## ACID Transactions

ACID transactions are not just for banking. A database without ACID support (atomicity, consistency, isolation, durability) will likely encounter data corruption, stale reads, and inconsistent data—all of which are unacceptable. MarkLogic supports ACID transactions, including multi-record transactions and rich, multi-term queries—on a single database or across a cluster with XA transaction processing.



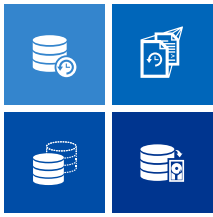
## Scalability and Elasticity

MarkLogic can scale up or down in minutes to meet data volume and access demands, while also avoiding over-provisioning and over-spending. This is done without downtime, inconsistency, or risk of data loss. MarkLogic runs easily on Amazon Web Services or other Cloud providers but also has the flexibility for deployment in other virtualized environments or on premises.



## Government-Grade Security

The risk of not securing data is simply too high, which is why, according to Gartner, investment in IT security will increase by around 39%, to \$93 billion, by 2017. MarkLogic has higher security certifications than any other NoSQL database—maintaining Common Criteria Evaluation and Validation Scheme (CCEVS) certification for supporting key security functions such as audits, user data protection, security management, data protection, TOE (target of evaluation) access, and identification and authentication (including third-party support for LDAP and Kerberos).



## High Availability and Disaster Recovery

DBAs report that 45% of all downtime is caused by server failure, costing organizations money and their reputation. To prevent downtime, MarkLogic has High Availability (HA) using automated local or shared disk failover. For Disaster Recovery (DR), MarkLogic has full database replication and point-in-time recovery using journal archiving. Combined with ACID support, these HA/DR features ensure that even if the data center goes down, data is not lost and the database is not corrupted.



## Monitoring and Performance Tools

Great tools for monitoring and management ensure that the IT team is just as happy with the platform choice as the developers. MarkLogic has automatic rebalancing and cluster monitoring tools and rich APIs for management, process automation, access controls, database cloning, and audit trails. MarkLogic also includes out-of-the-box interfaces that link to Nagios and other third-party tools using the REST API.

MarkLogic was built from the ground up to be enterprise-grade and it has all of these features right now. Other databases are still working on incorporating these features, or have dismissed them as being unimportant or too hard to implement.

MarkLogic continues to build innovative features that you want—and prove itself with the enterprise features you need. A wide variety of organizations are achieving success with MarkLogic that is not possible with any other solution. Fortune 500 companies, government agencies, and small and medium-sized businesses are choosing MarkLogic to solve some of their most difficult data challenges.

## About MarkLogic

For more than a decade, MarkLogic has delivered a powerful, agile, and trusted Enterprise NoSQL database platform that enables organizations to turn all data into valuable and actionable information. For more information, please visit [www.marklogic.com](http://www.marklogic.com).

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