+ NuoDB PRODUCT OVERVIEW:
The Distributed SQL Database for Modern Applications

ELASTIC SCALE-OUT CHALLENGES

Data is the lifeblood of any modern application. Your application's usefulness and success relies on consistent access to accurate data via uninterrupted services. Software development organisations today face difficult tradeoffs when it comes to the database to support these applications:

Traditional relational databases provide familiar SQL data access and ACID transaction guarantees needed for operational applications, but are costly, time consuming, and complex to scale-out due to their inflexible monolithic architectures.

NoSQL databases bring the elastic scalability cloud applications require, but sacrifice data consistency and durability, and force developers to add data management code to applications.

"NewSQL" databases typically fulfill a narrow set of use cases, sacrificing migration friendliness, durability, and high availability.

DO MORE WITH NuoDB, THE DISTRIBUTED SQL DATABASE

NuoDB's distributed SQL database combines the scale-out simplicity, elasticity, and continuous availability that modern applications require with the transactional consistency and durability that databases of record demand.

Designed to handle dynamic operational workloads, NuoDB's distributed network of process nodes operate and appear as a single logical database, giving you the ability to:

Elastically scale out and back in, without interruption to application services. With NuoDB, seamlessly add or delete nodes to handle predicted or unpredictable usage spikes and then return to normal workload without any application changes, pre-provisioning hardware, or migration downtime.

Provide continuous availability and active-active capabilities for your applications. NuoDB's peer-to-peer approach maximizes resource utilization and delivers resiliency against unexpected process, system, and data center failures or planned upgrades and maintenance without any application downtime.
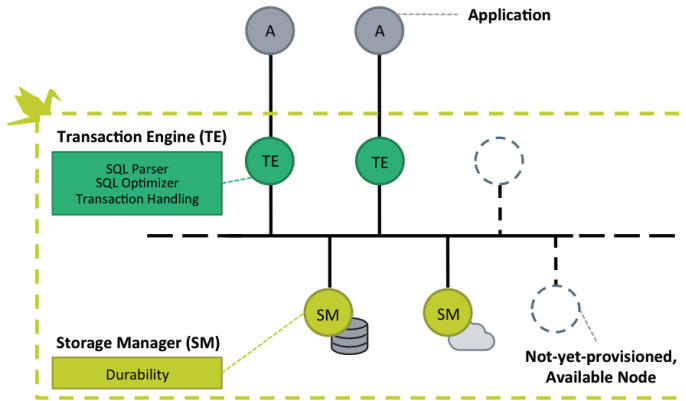
Support hybrid cloud environments. Deploy NuoDB across multiple platforms (physical, virtual, and containers) and environments (on-premises, multiple data centers, hybrid cloud) to easily on-ramp to the cloud, protect against cloud outages, and use a single system of record for applications in multiple locations.

ARCHITECTURAL OVERVIEW

NuoDB appears as a single, logical SQL database to the application. However, under the hood, NuoDB features the Durable Distributed Cache, which separates database compute and storage processes into a two-layer, distributed peer-to-peer architecture. Process nodes can be deployed across multiple data centers and are optimised for in-memory speeds, continuous availability, and elastic scale-out.

Developers can focus on designing great applications instead of worrying about scale out complexity related to dynamic operational workloads. Database operators can scale out the database to accommodate dynamic workloads and not worry about adverse consequences to the application. NuoDB allows both developers and operations to focus on truly maximising performance of both the application and the database, independently.

MOVE TO THE CLOUD

NuoDB makes migration from traditional databases to the cloud a straightforward process by supporting full ANSI SQL, a relational data model, and ACID transactions. NuoDB customers often migrate their applications, themselves, within weeks.

CUSTOMER BENEFITS

Our customers rely on NuoDB's distributed SQL database to minimize compromise, complexity, and costs. But don't take our word for it. Take theirs:

"NuoDB saves our clients considerable sums in database licence fees – as much as 90% in some cases – while improving customer satisfaction." **– Alfa**

"NuoDB has saved us hundreds of hours of work." **– CauseSquare**

"NuoDB received one of the highest customer reference scores for its high availability and disaster recovery functionality." **– Information Management Magazine**

LEARN MORE

For more information about our product, visit us at **nuodb.com/product**.

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