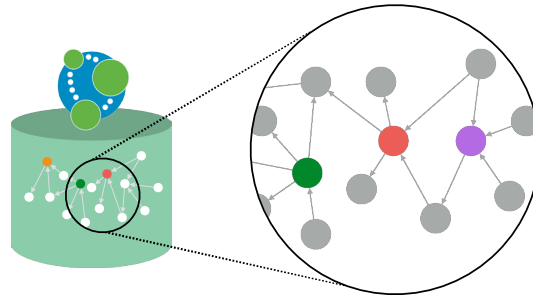


Product Brief

Neo4j Database

Neo4j is a highly scalable native graph database, purpose-built to leverage not only data but also data relationships. The [Neo4j Database](#) enables enterprise organizations to quickly and securely scale a database with ease.



Unlike other databases, Neo4j *connects* data as it is stored, enabling it to traverse connections orders-of-magnitude faster.

CATERPILLAR

Caterpillar, Inc. has more than 27 million documents that track vehicle repairs and maintenance. By using Neo4j to perform natural language processing (NLP), the company now searches at scale to uncover repair trends and issues, prescribe solutions and make valuable predictions, all of which increase the efficiency of vehicle repairs and maintenance across the company.



Scale with Data Growth

Organizations need a database that grows with their [connected data](#).

The Neo4j Database allows organizations to scale their mission-critical database via sharding. These shards partition data into different vectors based on business needs. Neo4j Database then uses federated [native graph](#) queries to analyze data across shards. This ability to shard connected data enables organizations to scale their database to hundreds of millions and billions of connections.



Superior Performance

Interconnected data is crucial to innovative business applications.

Neo4j's native [graph database](#) delivers high-performance queries on large, interconnected datasets. This minutes-to-milliseconds performance advantage – compared to a relational database – enables organizations to scale insights like never before. In addition, the Cypher graph query language empowers this superior performance with 10x less code.



High Availability

Mission-critical applications have to be available around the clock with zero downtime.

Neo4j's High Availability ensures that business applications are always running with rolling upgrades, continuous backups and 24x7 support. Neo4j's multi-database capability allows organizations to build separate test, development and production databases, allowing users to modify and test the database with zero loss to production. In addition, Neo4j's expert support has a 99% satisfaction rating.



"We found Neo4j to be literally thousands of times faster than our prior MySQL solution, with queries that require 10-100 times less code."

-Volker Pacher, Senior Developer



"If you come from a background of working with a traditional SQL database where schemas have to be predefined, with Neo4j it's really easy to build on top of already existing nodes, already existing relationships, already existing properties."

-Ashley Sun, DevOps Engineer



Database Agility

Business requirements change – and Neo4j is built to keep pace.

Neo4j's versatile [property graph model](#) makes it easy to evolve a solution as data types and sources shift. In addition, multi-database capabilities enable a single Neo4j instance to serve multiple customers or users within an organization. And when business requirements do change, teams can modify the schema or database without disrupting or remodeling current data.



Enterprise-Grade Security

Neo4j includes enterprise-grade database security that guarantees transactions with zero data loss.

Neo4j has all the security features enterprises expect: LDAP/Directory services integration, role-based access control, and security logging. A schema-based security model allows data managers to fine-tune access to privileged information stored in Neo4j. It also allows organizations to deliver logical security etiquettes for all users.

Furthermore, with Neo4j's multi-database capabilities, sensitive data can be securely partitioned into its own database or graph. For example, geographically sensitive data for GDPR compliance can be separated into multiple databases within one Neo4j server.



Built for Developers

From day one, Neo4j has been built with developers top of mind.

While developers will appreciate features like Neo4j's logging, debugging and administration tools, the most important feature is [Cypher](#), the world's most popular graph query language.

Cypher was created by developers working with connected data. Inspired by SQL – but not held back by its limitations – the Cypher query language delivers massive productivity gains with a minimal learning curve. Using Cypher, developers can intuitively query multiple relationship hops within Neo4j in a matter of seconds.

Neo4j is the leading graph database platform that drives innovation and competitive advantage at Airbus, Comcast, eBay, NASA, UBS, Walmart and more. Hundreds of thousands of community deployments and more than 300 customers harness connected data with Neo4j to reveal how people, processes, locations and systems are interrelated.

Using this relationships-first approach, applications built using Neo4j tackle connected data challenges including artificial intelligence, fraud detection, real-time recommendations and master data. Find out more at [Neo4j.com](#).

Questions about Neo4j?

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