WHY INTELLIGENT APPLICATIONS NEED A GRAPH DATABASE WITH OPERATIONAL FLEXIBILITY

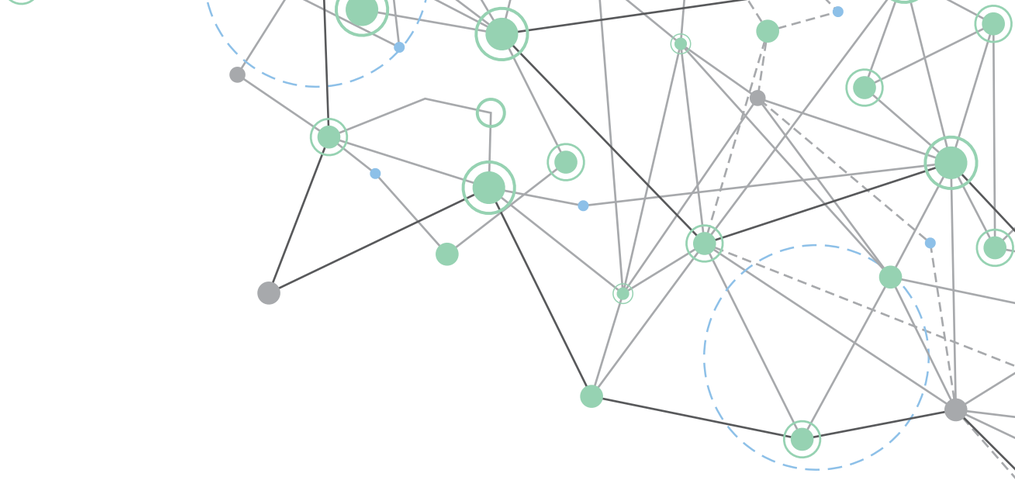
THE CONNECTED SOLUTIONS SERIES

Scalability

Security

Flexibility

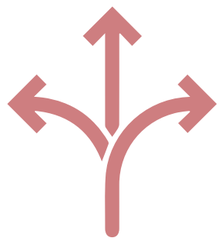
neo4j



Intelligent applications

Intelligent applications come with new requirements. Today's agile, test-driven development practices demand that applications evolve with changing business requirements. Modern graph databases are equipped for frictionless development.

Flexibility



Thrives on change

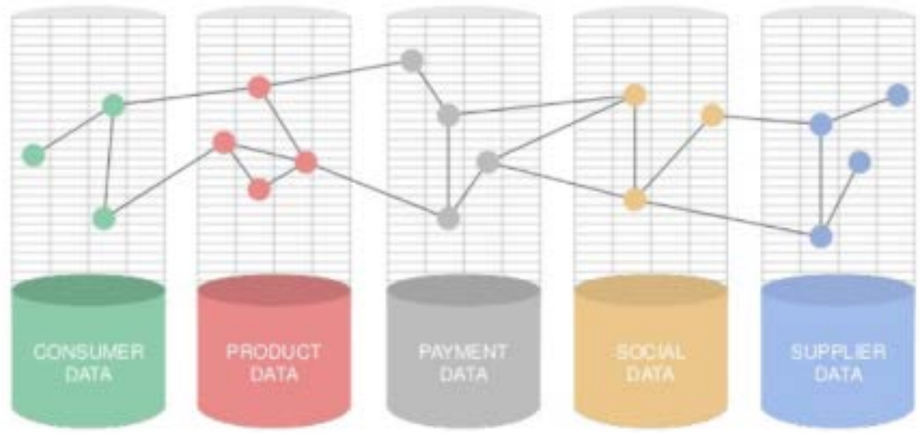
Security & Data Privacy

Built in, locked down

Unbounded Scale

No limits, no surprises

Relational databases



Relational databases feature a rigid row-and-column schema that must be defined in advance. These schemas are difficult and costly to update as business requirements change.

Hard to change

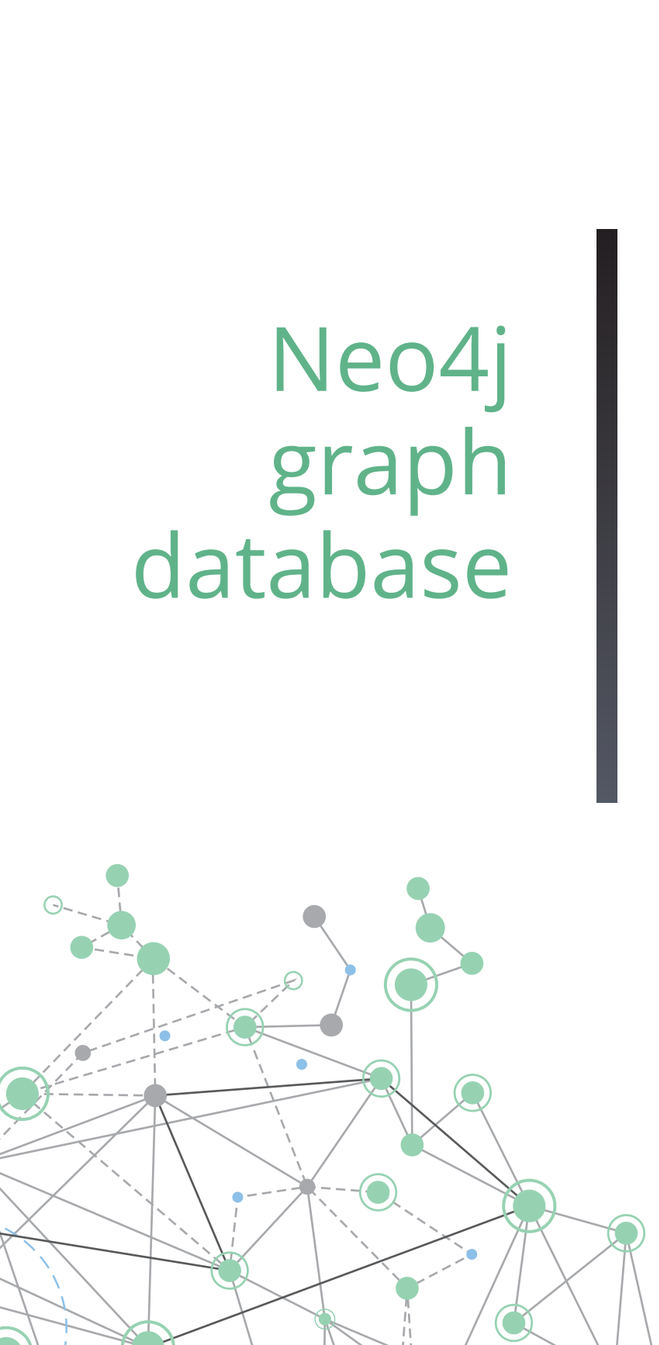
Not optimized for connected data

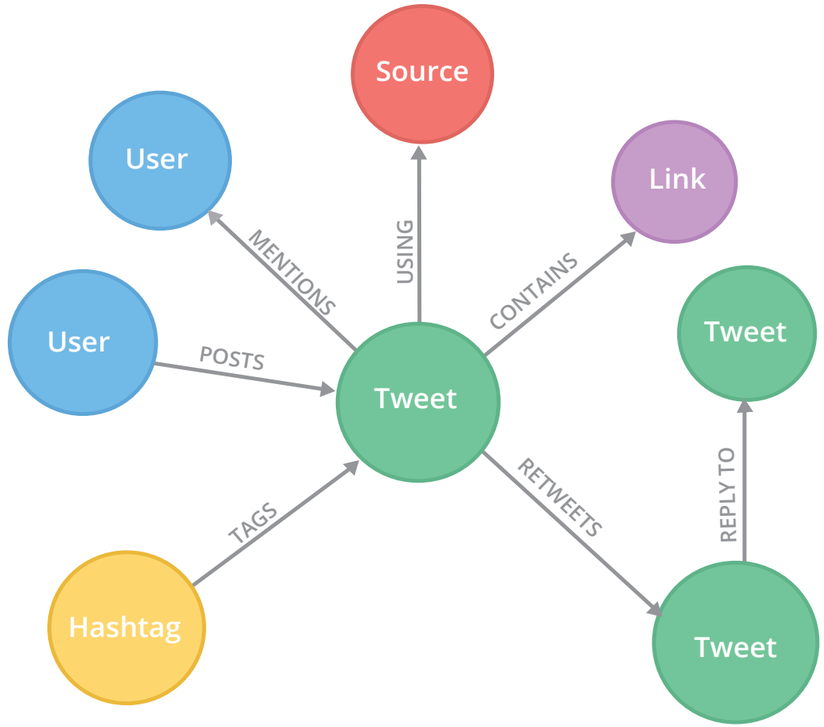
Fully transactional

Neo4j graph database

With its native graph data model, Neo4j offers extreme flexibility.

- Change at will
- No JOINs
- Scale up effortlessly
- Simple but powerful
- Relationships stored as first-class entities





Neo4j flexibility

From data models to infrastructure, the Neo4j graph database allows you to evolve your solution fluidly as business requirements change.

The boundless flexibility of the graph data model is matched by multi-database capability that serves use cases from innovation to compliance to SaaS applications.

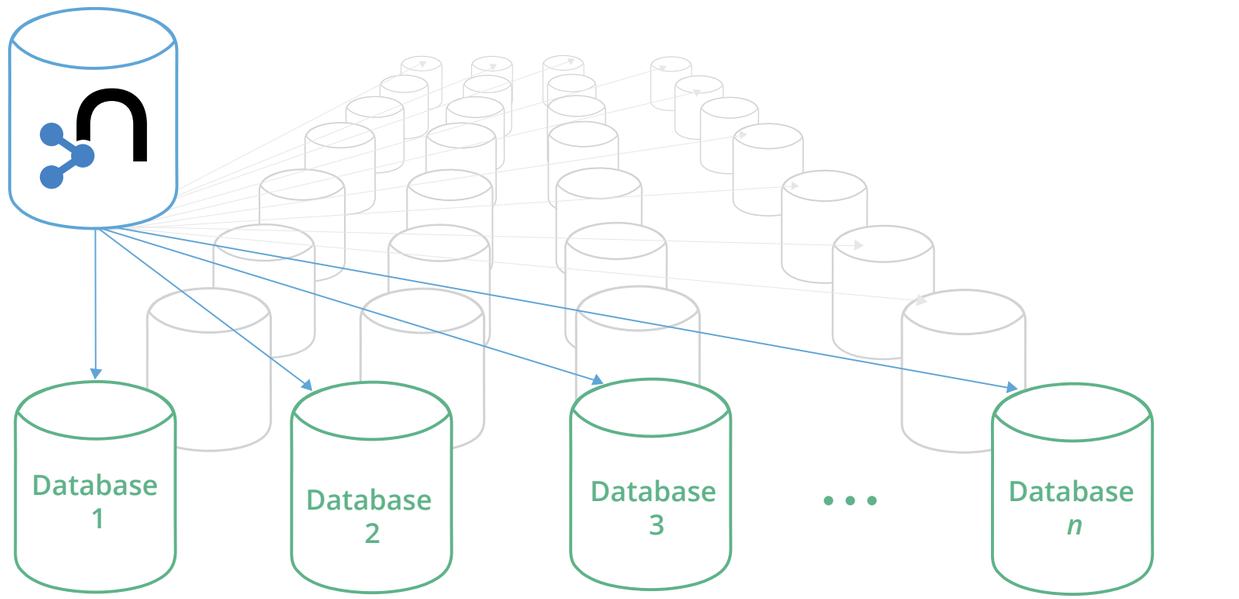
RedMonk

"The modern application development process puts a premium on velocity, which is why ease of use and flexibility for developers have become as critical as performance for database platforms."

– Stephen O'Grady, Principal Analyst, RedMonk

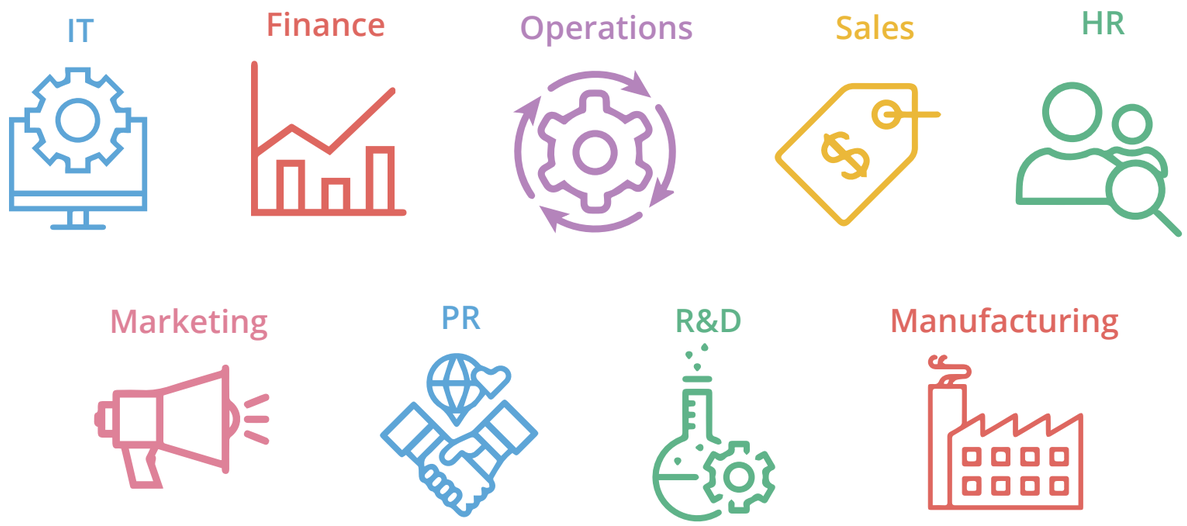
Multi-database amps up flexibility

Neo4j offers full multi-database capabilities with separation of data, enabling multiple databases to run inside a cluster.



Flexibility for innovation

A single Neo4j instance enables you to support multiple databases with entirely different schemas. A graph database used for real-time recommendations may coexist with graph databases for HR, marketing, sales and finance, all of which have different schemas and security requirements.



Run separate databases for different departments

Graphs everywhere
Support use cases across the organization

Innovation
Experiment with new use cases without overhead

Security
Tailored to each department and use case

Flexibility for AI/ML

Meet the requirements of multiple AI and machine learning projects by creating separate databases for them with ease.

AI and machine learning benefit from broad knowledge that crosses departments. Flexibility to store knowledge graphs in different databases enables you to benefit from hyper-focused AI as well as general AI.

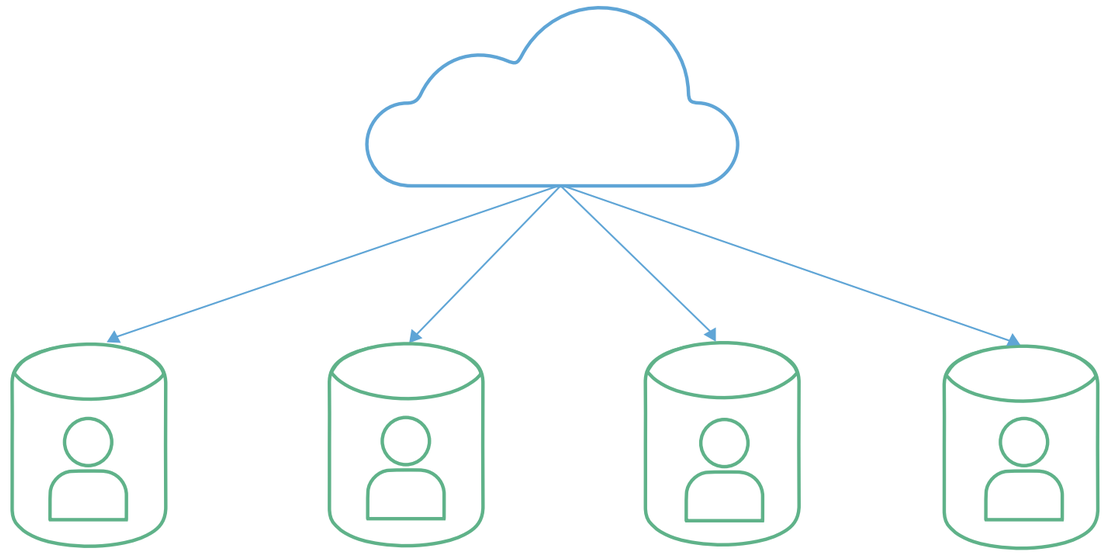
Flexibility for evolving compliance needs

Compliance with GDPR and other regulations requires a flexible approach that readily adapts as new regulations take effect. Store each country's data in a separate database to physically isolate it.

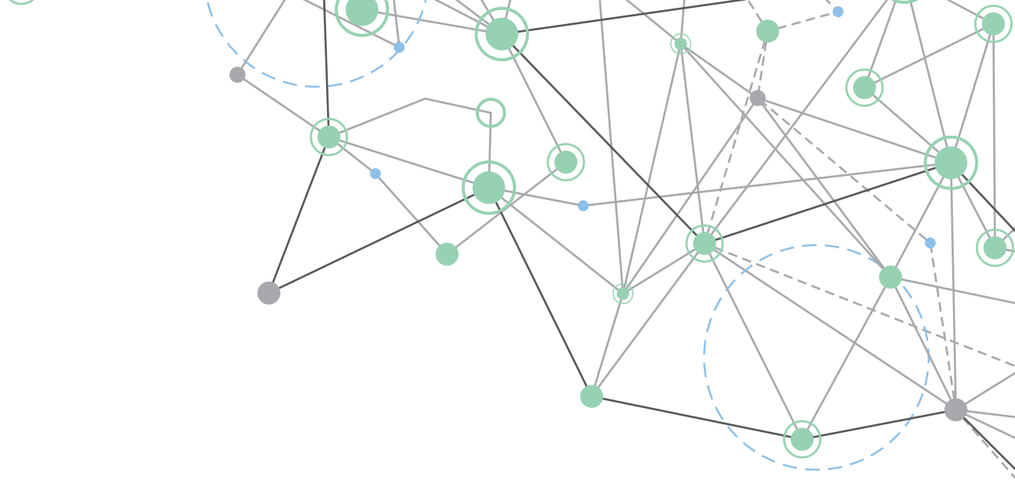
Flexibility for multi-tenancy and SaaS

Multi-tenancy supports use cases such as SaaS applications where each user's data is kept in a separate database. Such a multi-tenant environment offers physically separated storage and replication.

Neo4j enables you to optimize resources in a typical cloud environment. Suppose a server is set up to handle 10 tenants. If one is heavily using the system and needs more resources, that database can be moved to another server.



Isolate each SaaS user's data in a separate database

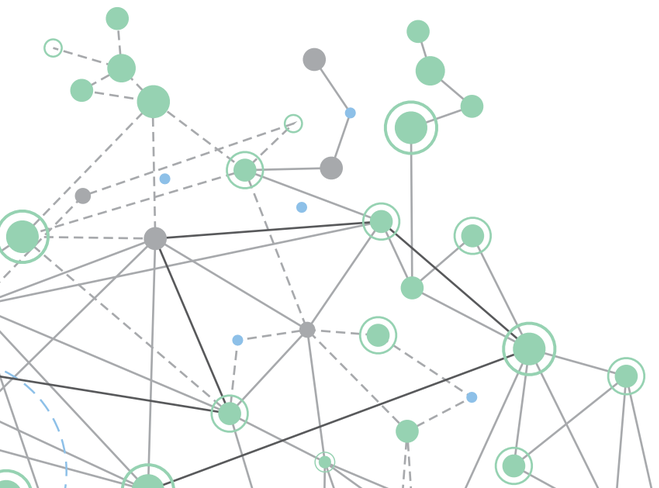


Get started

With Neo4j, connections always come first. Multiple databases do not compromise your ability to query and analyze connected data. Federated graphs bring your graph data together, both graphs with the same schema and graphs with different schemas.

Neo4j is the world's leading graph database. That's why more than 75% of the Fortune 100 already use Neo4j.

Learn more about the flexibility of graph technology in this white paper on how Neo4j powers tomorrow's connected data solutions.



Neo4j is the leader in graph database technology. As the world's most widely deployed graph database, we help global brands – including Comcast, NASA, UBS, and Volvo Cars – to reveal and predict how people, processes and systems are interrelated.

Using this relationships-first approach, applications built with Neo4j tackle connected data challenges such as analytics and artificial intelligence, fraud detection, real-time recommendations, and knowledge graphs. Find out more at neo4j.com.

Questions about Neo4j?

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