Neo4j Graph Intelligence for Microsoft Fabric

Easily Generate Graph-Powered Insights From Your OneLake Tables

Neo4j Graph Intelligence for Microsoft Fabric allows you to generate powerful graph insights from your OneLake tables — without ever leaving the Fabric console. Graph Analytics goes far beyond rows and columns to reveal patterns, relationships, and context that traditional analytics misses.

With seamless Fabric integration, AI-powered graph modeling, and intuitive no-code exploration, Neo4j Graph Intelligence democratizes algorithmic graph analysis and eliminates administrative overhead. Keep your insights fresh through scheduled Spark jobs between OneLake and Neo4j AuraDB. Graph Intelligence runs in a fully managed, secure, and scalable Azure environment — simplifying operations while improving decision-making and delivering better business outcomes.

Deliver Deeper Business Insights

Understanding organizational data means understanding the connections within it, but traditional analytics struggles to identify complex connections. Neo4j Graph Intelligence excels at analyzing relationships in data, allowing you to:

- **Reveal new insights, context and relationships** by moving beyond rows and columns.
- **Improve AI accuracy and explainability** by grounding your LLM with a knowledge graph.
- **Improve your ability to uncover context-aware patterns and relationships** with advanced graph algorithms and embeddings.
- **Visualize and investigate new insights intuitively** using interactive, no-code graph exploration.

Unify Your Graph Experience

Graph Intelligence for Fabric delivers a unified experience, so you can:

- **Reduce analytical overhead** by enabling graph exploration directly within the Fabric workspace.
- **Avoid manual ETL** by seamlessly creating graphs from OneLake tables.
- **Automatically generate a graph model** with AI assistance.
- **Ensure a single source of truth** by seamlessly syncing analytics and OneLake through scheduled updates.

Streamline Data Management and Strengthen Security

You and your team can use Graph Intelligence for Fabric to:

- **Simplify operations** with fully managed provisioning, scaling, and lifecycle management on Azure.
- **Streamline procurement** by enabling the workload directly within Fabric under your existing Azure agreement.
- **Strengthen identity and access control** by combining Azure enterprise controls with Neo4j node-level role-based access control.

Key Use Cases

Organizations of all sizes use Neo4j Graph Intelligence and Microsoft Fabric for a range of critical use cases.

Customer 360

Unify customer data across silos to create a single source of truth. Combining OneLake, Cosmos DB, and SQL Server data into connected graphs yields richer customer insights.

Fraud Detection

Detect hidden fraud rings and risky relationships by using Neo4j to trace connections across devices, accounts, and transactions in Azure.

Product Recommendations

Deliver personalized experiences and drive engagement by applying graph queries within Fabric workloads to surface relevant products and services.

Supply Chain Visibility

Improve efficiency and reduce operational risk by mapping suppliers, logistics, and dependencies across Azure data sources.

GenAI

Improve LLM grounding and explainability, and power AI experiences with connected data from Neo4j and Azure OpenAI.

Explore more use cases

Unlock the Full Value of Your Data With Graph Intelligence

Using Neo4j Graph Intelligence in the Fabric ecosystem allows you to harness a range of deep integrations and realize the full value of your organizational data.

Unify and Understand Organizational Data

Create, manage, and query connected data across OneLake, SQL Server, Cosmos DB, Synapse, and other Azure sources.

Initiate graph creation and exploration within Fabric, with AI-assisted graph model generation. Deliver more contextual insights faster by modeling relationships across all enterprise data — no complex integrations or manual ETL required.

Power AI With Knowledge Graphs

Neo4j AuraDB on Azure, combined with Azure OpenAI and Azure AI Foundry, enables you to ground LLMs in trusted data for better accuracy, explainability, and context.

Build knowledge graphs from OneLake data to accelerate AI-driven decision-making.

With GraphRAG, Neo4j and Microsoft provide the foundation for GenAI apps that deliver context-aware, intelligent responses.

Secure Your Data and Control Costs

Keep compute, storage, and governance in Azure, improving security, compliance, and performance.

Streamline payment by using your existing Azure or Fabric credits.

Simplify procurement with multiple deployment models and Azure Marketplace integration, making it easy to adopt Neo4j within existing Microsoft agreements.

Neo4j + Microsoft: Powering AI Systems and Solving Complex Data Challenges

Neo4j and Microsoft have partnered since 2011 to help organizations realize the full potential of their data. Combining Neo4j's graph database capabilities with Microsoft Azure, Microsoft Fabric, and Azure AI allows joint customers to create, manage, and query connected data — and power next-generation applications.

Neo4j helps organizations like UBS, Novo Nordisk, and Allianz unify data from across the Azure ecosystem, including OneLake and the broader Azure data platform. Many use Azure AI Foundry to build GraphRAG-powered applications that deliver context-aware, intelligent responses not possible with traditional approaches.

Neo4j Is Trusted by Over 1,600 Global Organizations, Including 84 of the Fortune 100

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