

Introduction to Neo4j

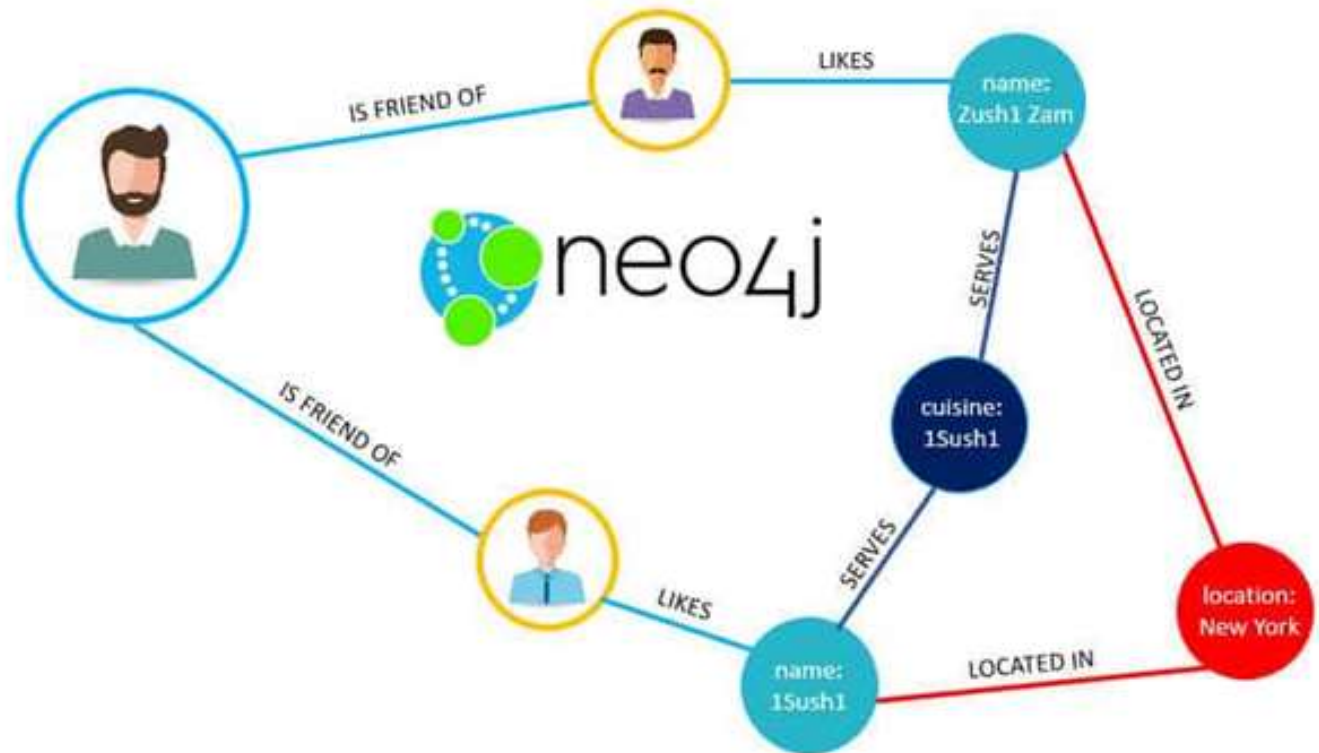
What's neo4j?

- Provides a graph database management system
 - A language to query the database, a.k.a CYPHER
 - A visual interface with the neo4j browser.
- Open source project, maintained by a private company
- Inspired by the structure of the human mind



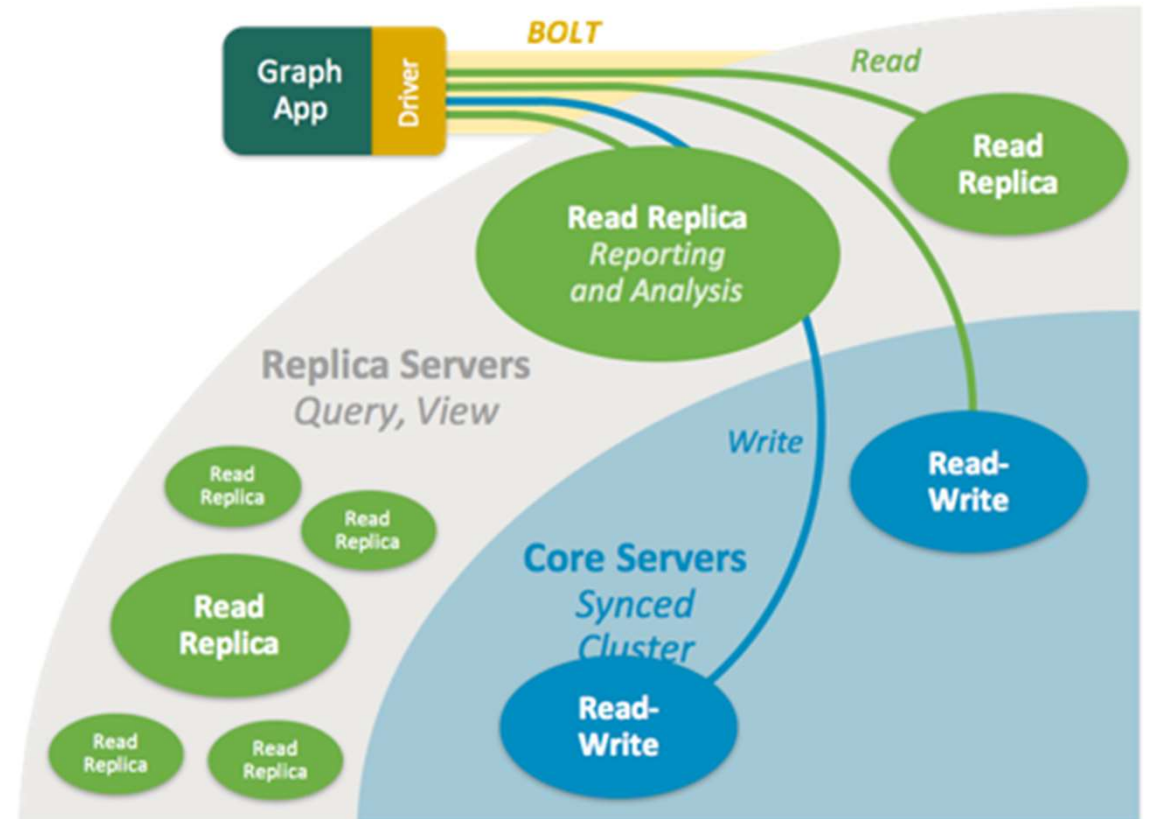
Neo4j Graph Platform

- The heart of the Neo4j Graph Platform



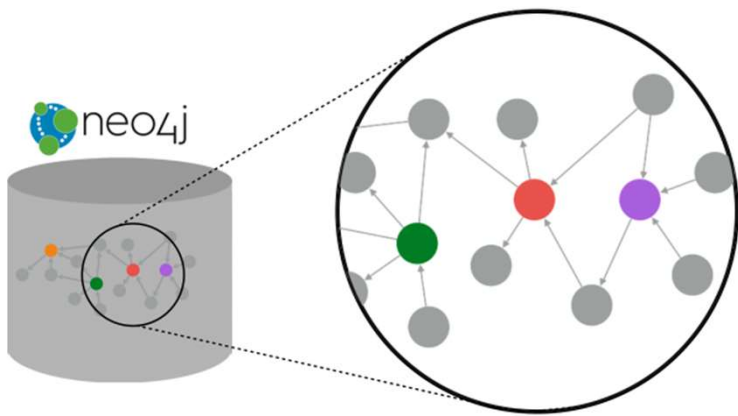
Clusters

- Supports clusters that provide
 - High availability,
 - Scalability
 - Failover



Graph engine

- To interpret Cypher statements
- Many ways to tune performance of engine to suit particular application needs

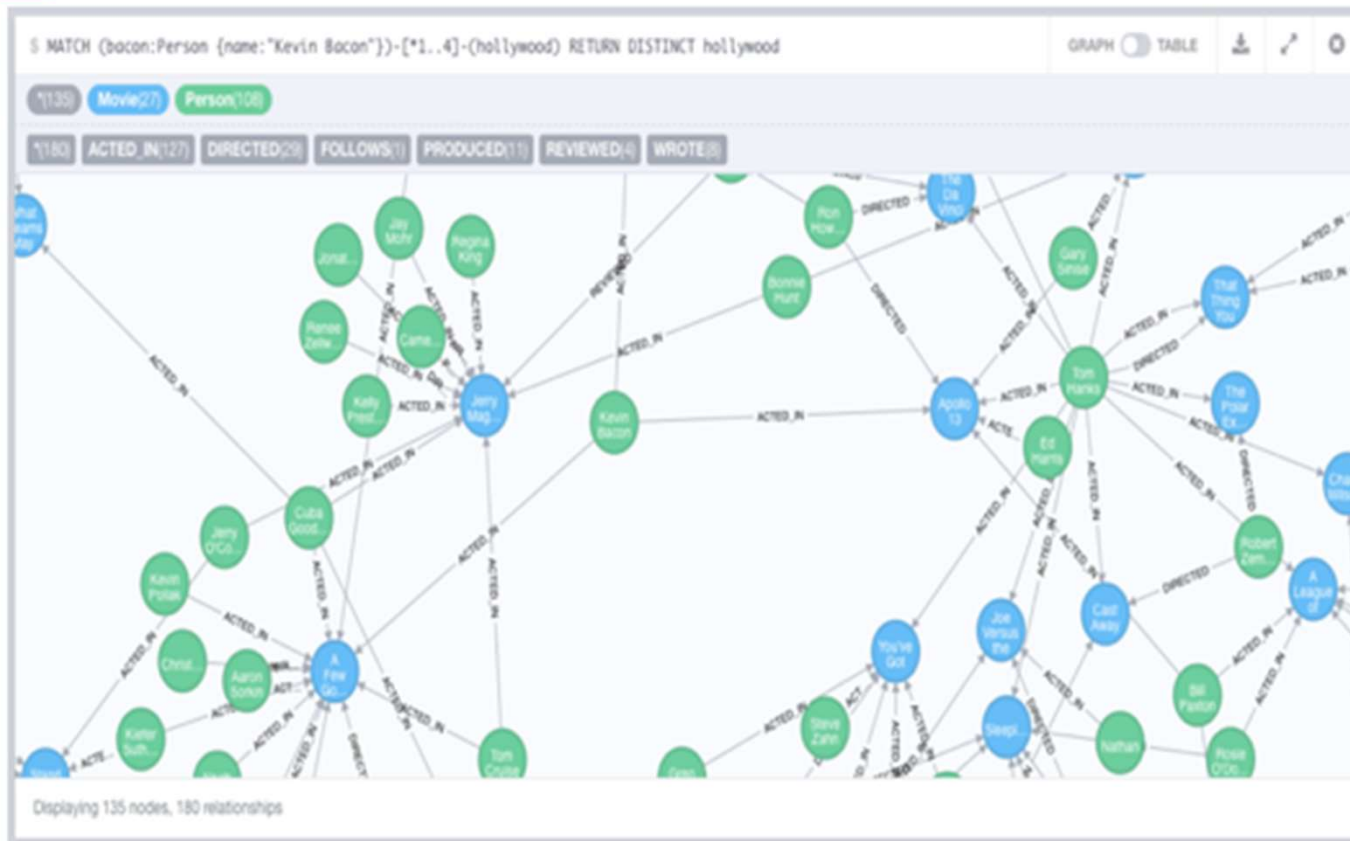


Language and driver support

- The language used for querying the Neo4j database is Cypher
- Supports Java, JavaScript, Python, C#, and Go drivers
 - Use bolt protocol for access to the database layer
- Can develop own server-side extensions to access data without using Cypher
- The Neo4j community developed drivers for many languages - Ruby, PHP, and R
- Can extend functionality of Neo4j by creating
 - User defined functions and
 - Procedures



- APOC
- Graph Algorithms
- GraphQL library



- Neo4j Browser
 - Uses the Bolt driver to access the graph engine of the Neo4j database server
- Bloom
 - Enables to visualize a graph
- For importing and exporting data

Neo4j Graph Platform architecture

