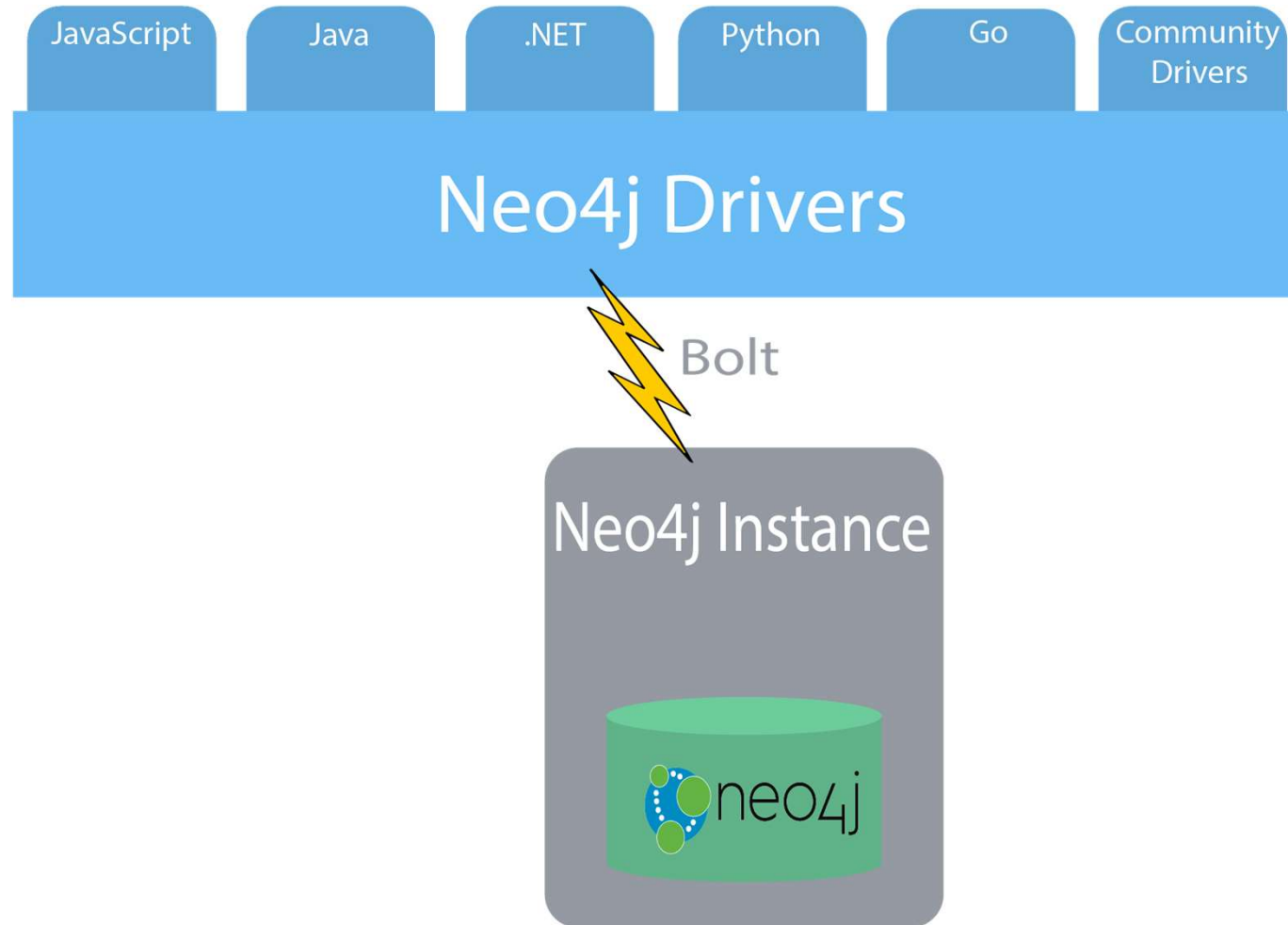


Neo4j Administration

Common application architectures

- Used in different application architectures
- Transactional and real-time database
- For highly connected data
- Applications connect using **Bolt protocol**
- Officially supported drivers:
 - .NET,
 - Java,
 - JavaScript,
 - Python, and
 - GO

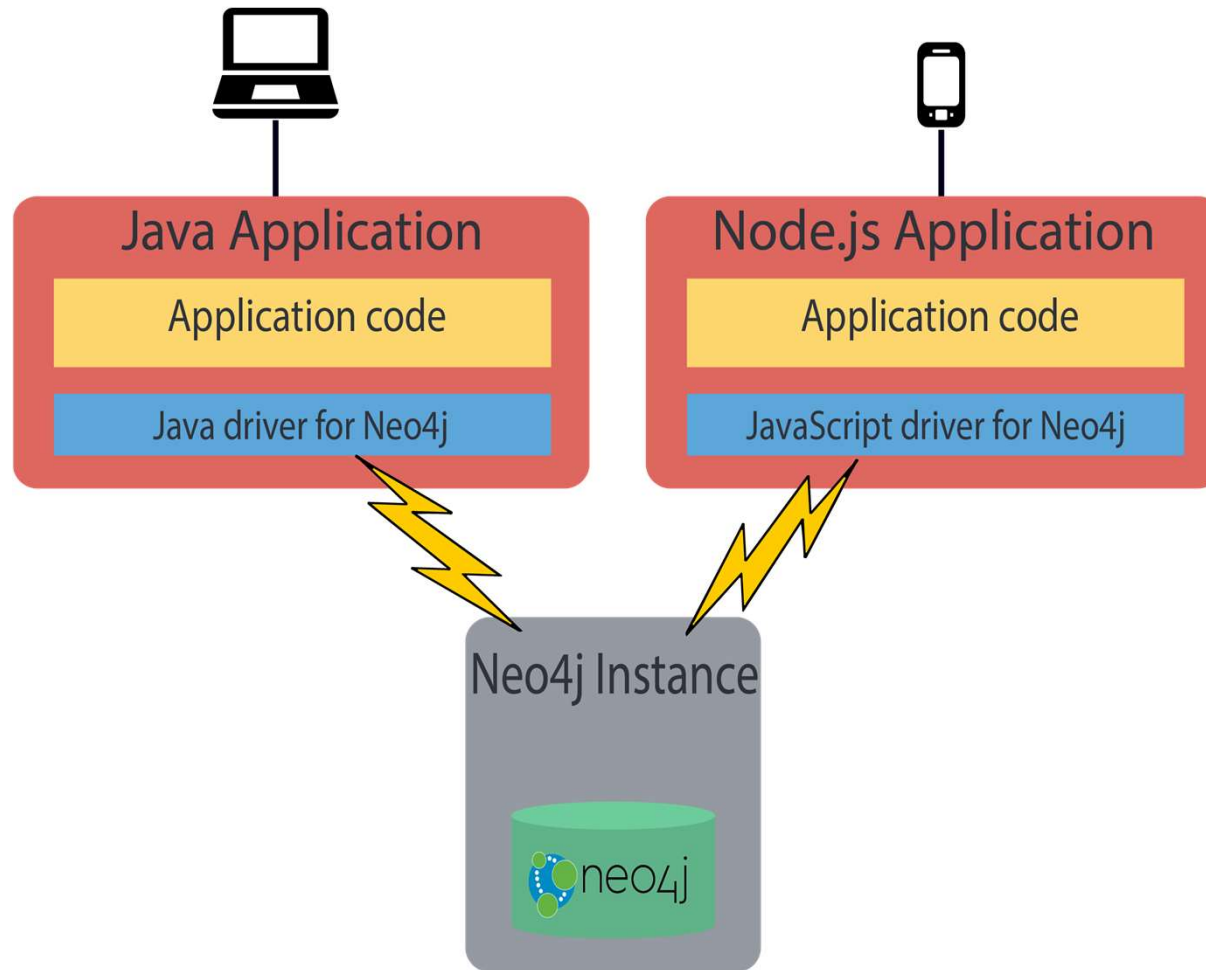
Common application architectures



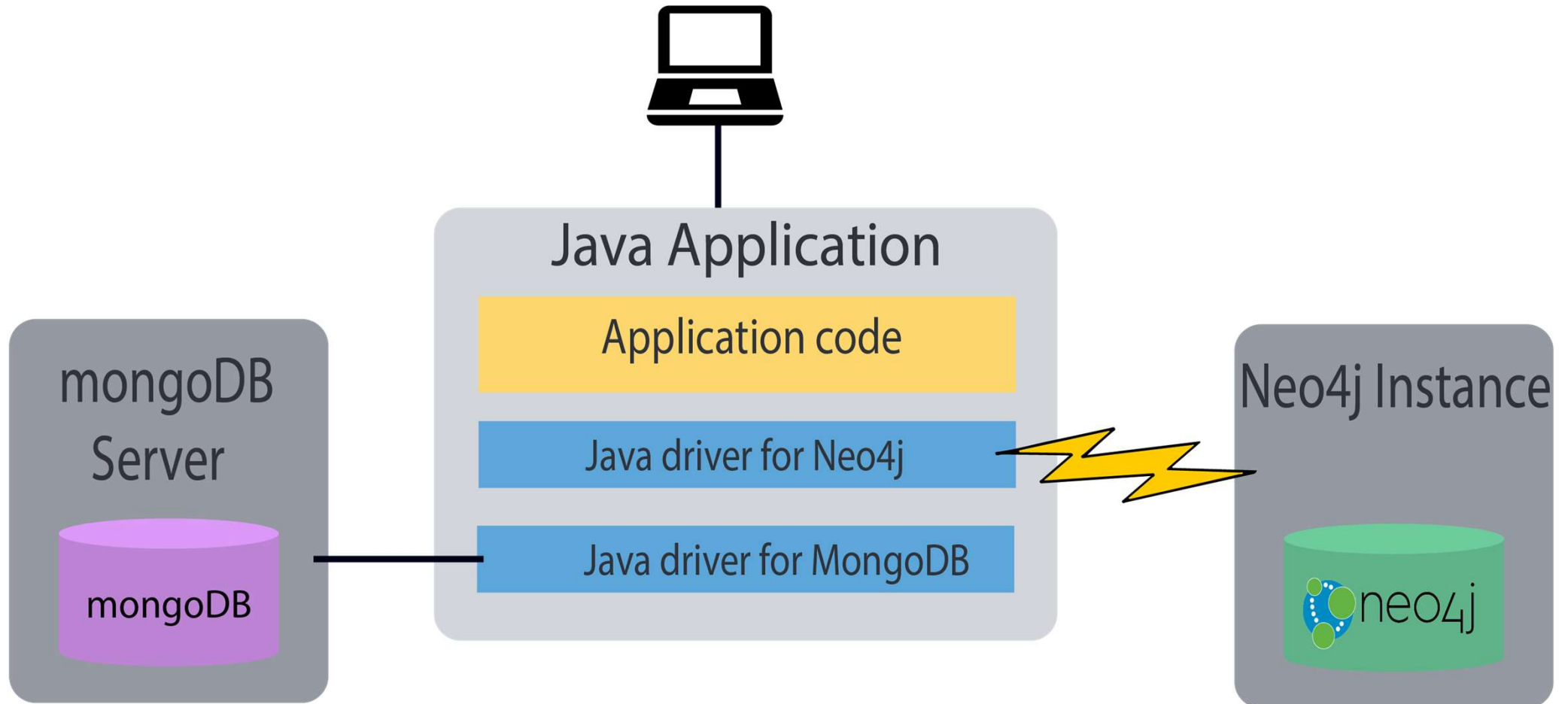
Extending Neo4j

- Some applications use Neo4j out-of-the-box
- Others extend with additional functionality
- Examples:
 - Neo4j-supported procedures:
 - Graph Algorithms
 - GraphQL
 - Community-supported procedures
 - Awesome Procedures of Cypher (APOC)
- Can also custom-developed procedures for your application

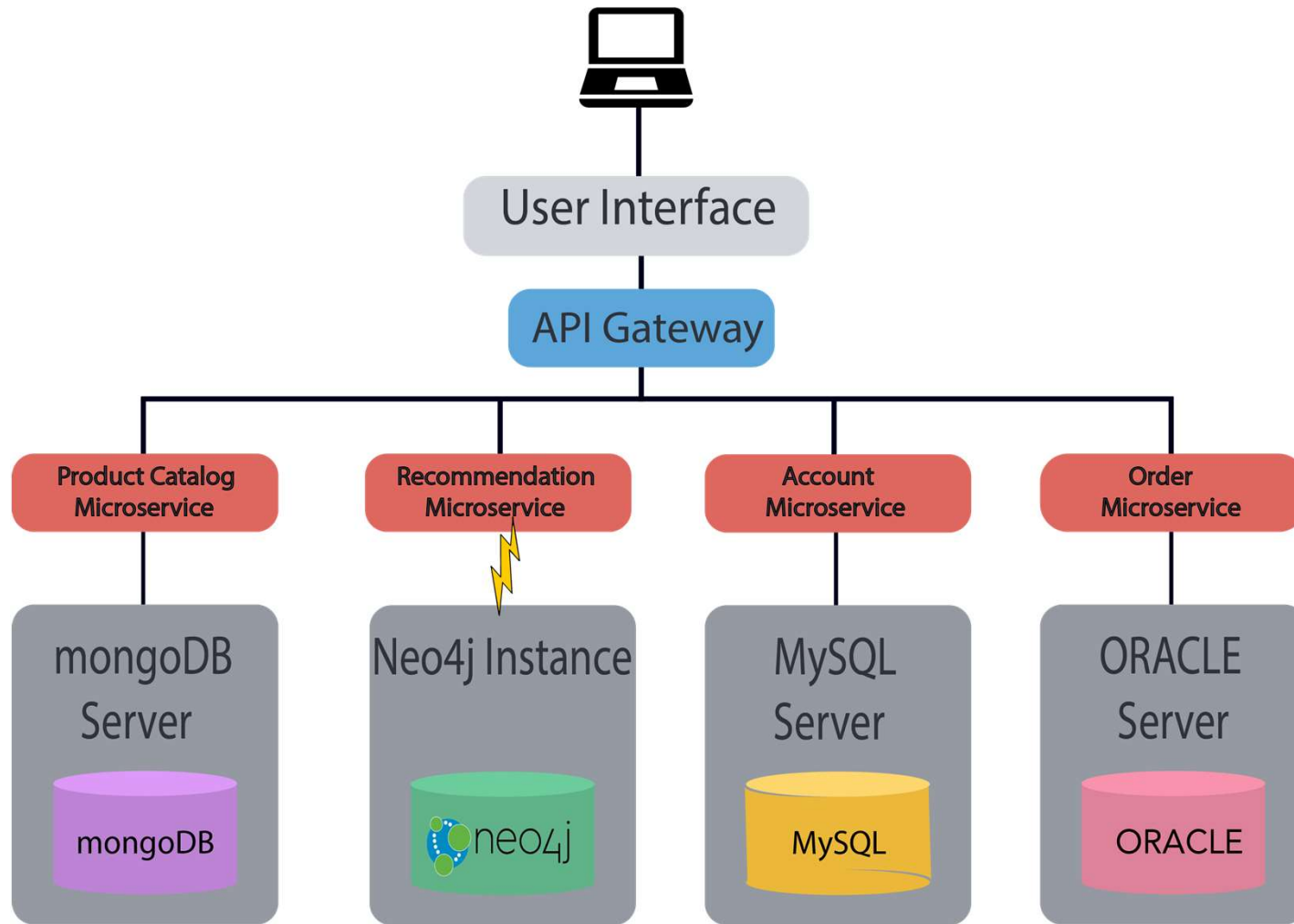
Using Neo4j as primary database



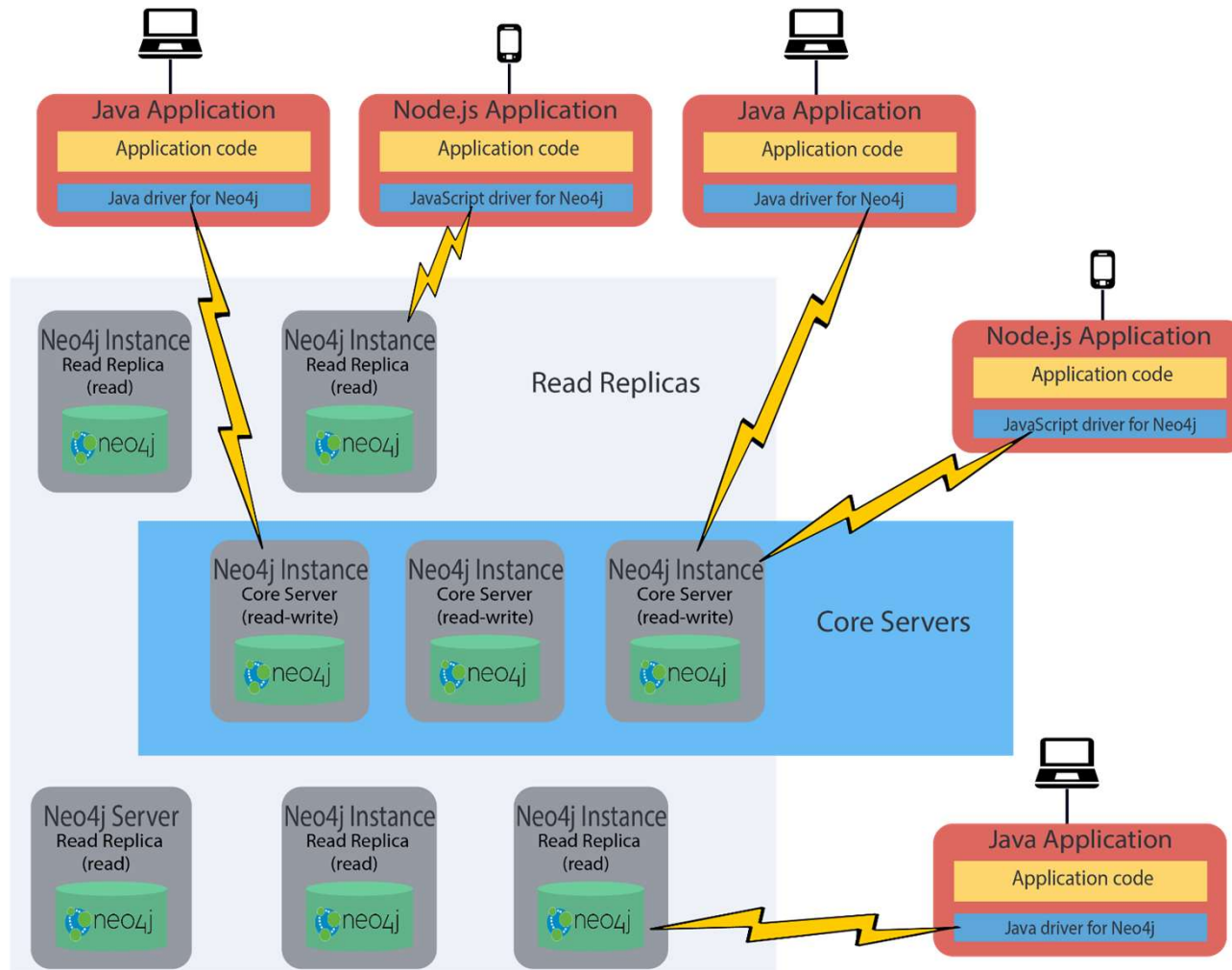
Integrating Neo4j with other databases



Microservices



Using Neo4j Causal Clustering



Using Neo4j standalone for graph analytics



JavaScript Application

Neo4j **Bloom**

JavaScript driver for Neo4j



Neo4j Instance



- Neo4j Bloom is
 - An easy-to-use graph exploration application
 - For visually interacting with Neo4j graphs

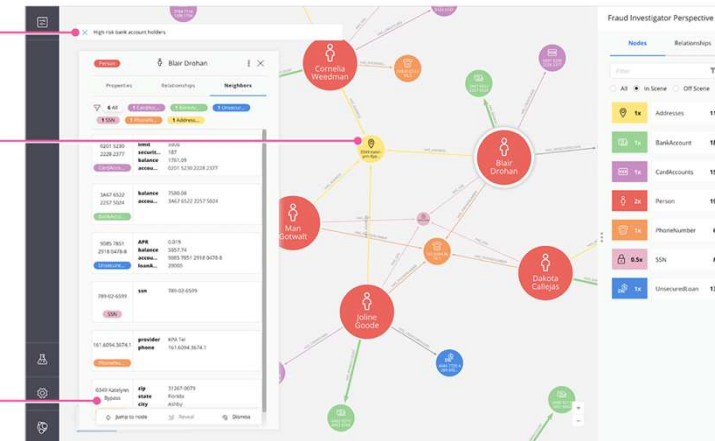
Search with type-ahead suggestions

Flexible Color, Size and Icon schemes

Visualize, Explore and Discover

Pan, Zoom and Select

Property Browser and editor



Which edition of Neo4j to use

Community Edition

- Suitable for single instance deployments

Enterprise Edition

- For production systems
- Requires a license
 - 30 day evaluation license

Neo4j Desktop

Used by developers

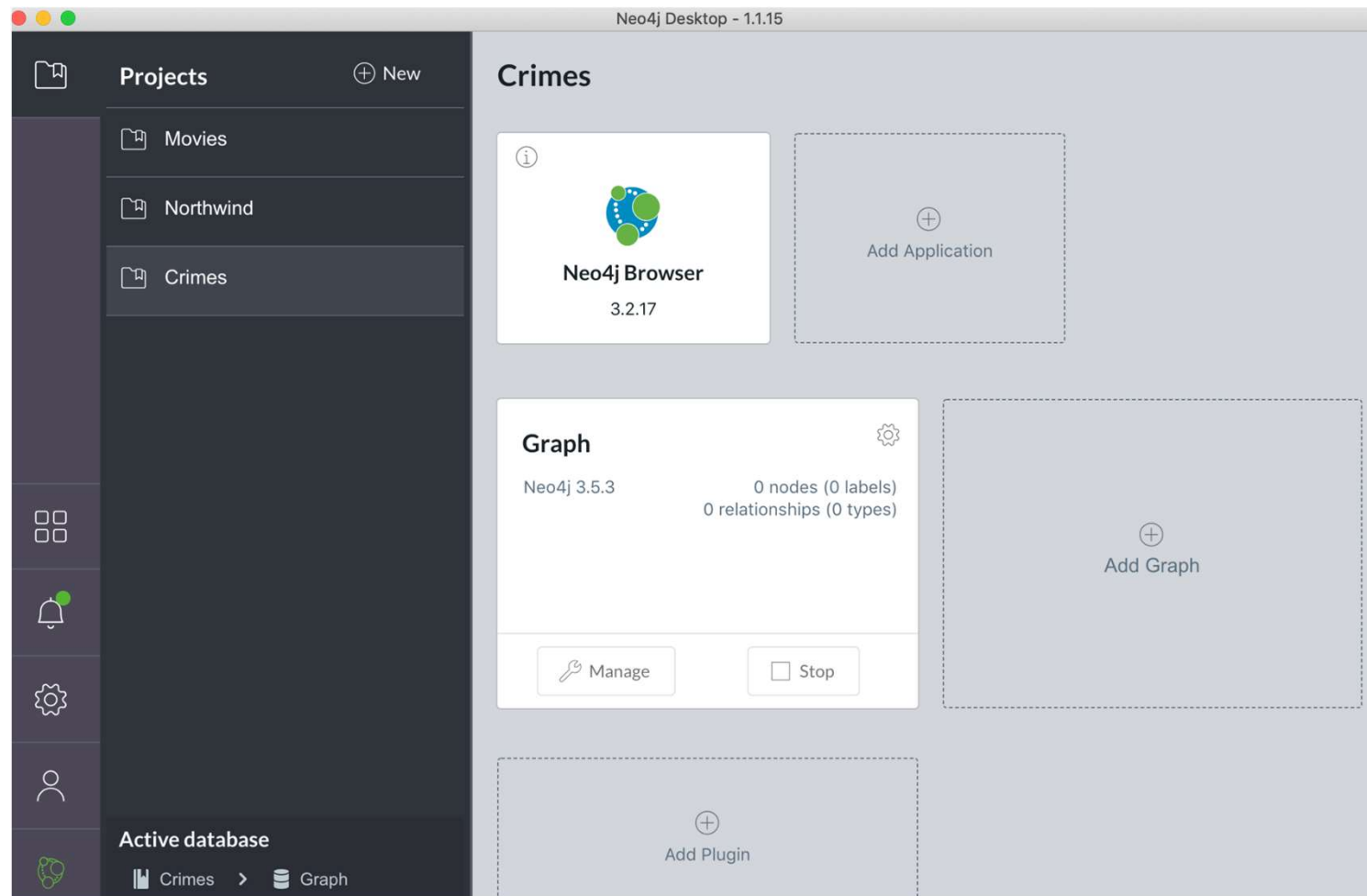
Purpose is to make development easier

The Neo4j instance that runs in Neo4j Desktop is Enterprise Edition

Linux, OS X, and Windows

Free for developers

Neo4j Desktop



Download Specific Version

- <https://neo4j.com/download-center/#releases>

Supported S/W & H/W

Have specific requirements for:

- JVM
- Operating system
- Hardware architecture
- Memory
- Disk
- Filesystem

Consult the System Requirements to learn more

- <https://neo4j.com/docs/operations-manual/current/installation/requirements/#deployment-requirements>

Neo4j deployment options

Server mode deployments

- Most common
- Recommended for all onsite deployments

Embedded deployments

- Common in OEM setups
- Runs integrated as part of a third party product
- Very easy to directly work with the database
- Fast performance

Neo4j in the Cloud

- Amazon EC2
- Google Cloud (GCP)
- Microsoft Azure
- Kubernetes

Administrative tasks

Downloading and installing Neo4j

Managing a Neo4j database

Managing plugins used with the Neo4j database

Managing logging

Monitoring queries

Backing up and restoring databases

Managing Causal Clusters

Managing database security