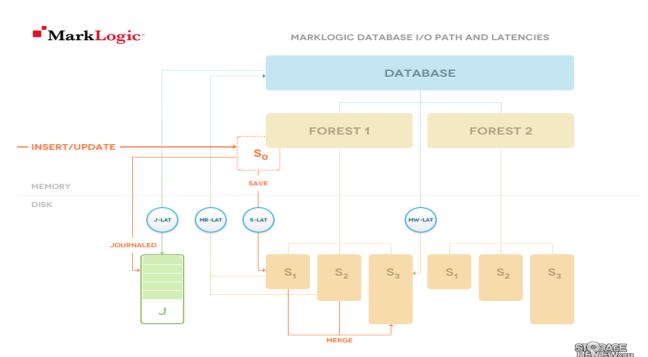
Comparison Report

MarkLogic Architechture:



MarkLogic VS MongoDB:



- Multi-model Database
- Ideal for complex data integration use cases especially for large data sets with multiple data models, rapidly changing data, or quickly evolving business needs.
- Native support for JSON, XML, RDF/OWL/Turtle, geospatial.

- Document Database.
- Ideal for non-transactional applications that need an easy-to-use JSON document database.
- Native support for JSON-like documents (BSON), geospatial.
- MongoDB possesses Master-Slave replication.

MarkLogic vs Other NoSQL Databases:

Feature	MarkLogic	MongoDB	Cassandra	Neo4j
Model	Multi-model	Document	Wide-column	Graph
ACID	Full	Limited	No	Full
Search	Built-in	Basic	No	No
Security	Advanced (HIPAA-ready)	Good	Basic	Good
License	Proprietary	OSS + Paid	OSS + Paid	OSS + Paid

Strengths:

- Multi-model with ACID compliance
- Built-in search & semantic support
- Ideal for secure, regulated industries

Weaknesses:

- Proprietary & costly
- Smaller community
- Steep learning curve

Best Use Cases:

- MarkLogic → Healthcare records integration, financial compliance, government intelligence.
- MongoDB → Web/mobile apps, content management systems.
- Cassandra → Large-scale analytics, IoT sensor data.
- Neo4j \rightarrow Social graphs, fraud detection, recommendation engines.