

# #1 - Enhanced performance

MongoDB 7.0 brings significant improvements to working with time series data, especially demanding, high-volume datasets of all shapes. These improvements result in improved storage optimization and compression, as well as improved query performance. Developers will experience even better handling of high cardinality data, improved scalability, and overall performance; enabling you to manage time-series data more efficiently and cost-effectively. **Change streams** will now support even wider use cases: handling changes in large documents, even with pre-images and post-images, without causing unexpected errors.



# #2 - Smoother migrations

Updates to **cluster-to-cluster sync** (mongosync) will enable more efficient data migration in a variety of scenarios. Cluster-to-cluster sync now provides greater flexibility in syncing between clusters with unlike topologies, such as from replica sets to sharded clusters. Filtered sync allows for syncing specific data sets instead of the entire cluster. **Atlas Live Migrate** now supports migrations for clusters running MongoDB 6.0.4+ delivering migrations that are faster and more resilient in cases of interruption during the migration process.



# #3 - Streamlined developer experience

With new enhancements to the aggregation pipeline – including **compound wildcard indexes**, approximate percentiles, and bitwise operators – developers can enjoy greater flexibility and performance in indexing and querying data. With MongoDB 7.0, developers can also implement **user role variables** within aggregation pipelines enabling a single view to display different data based on the logged-in users' permissions. Support for fine-grained updates and deletes in time-series collections and new metrics to help select a shard key to help reduce developer effort and streamline the development process.



# #4 - Stronger security

MongoDB 7.0 strengthens security capabilities with **Queryable Encryption** to help customers encrypt sensitive data and run equality queries on fully randomized encrypted data. The security enhancements ensure that developers can build and deploy applications with confidence, knowing that their data is protected and compliant with the latest security standards and protocols.

