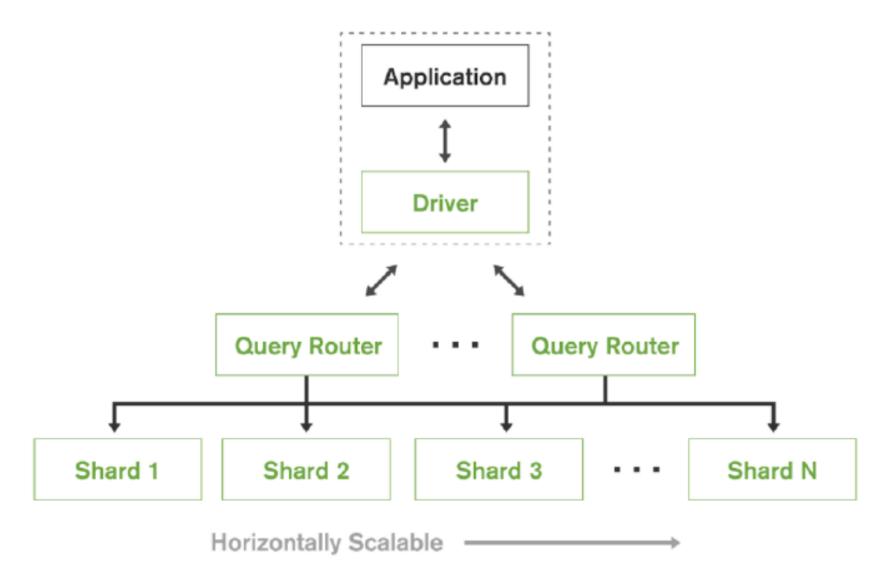
MongoDB Architecture

Data Structure

- Database
- Document Collections
- Documents

Data Storage – Sharding (Partitioning)



Sharding (Partitioning) Algorithms

Ranged Sharding

Documents are partitioned across shards according to the shard key value.
 Documents with shard key values close to one another are likely to be colocated on the same shard.

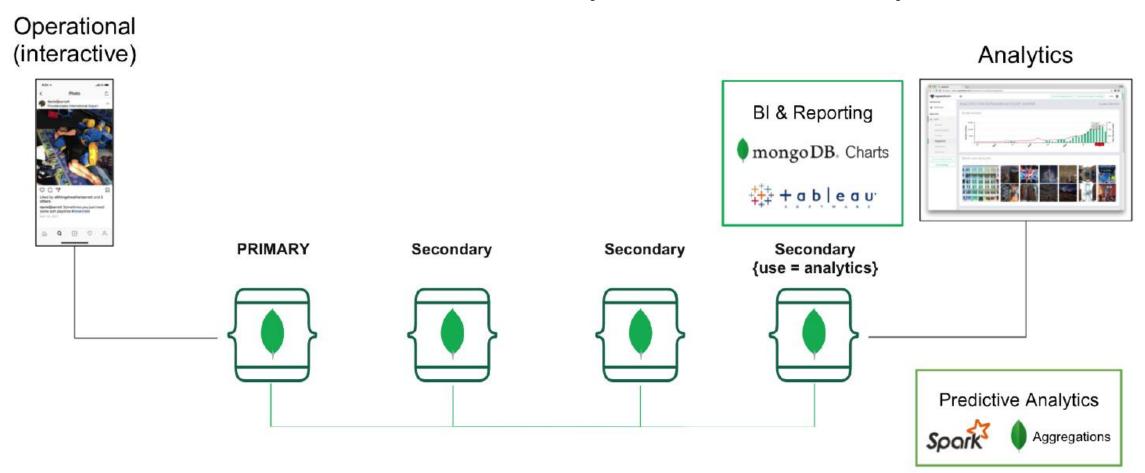
Hashed Sharding

Documents are distributed according to a hash of the shard key value. This
approach guarantees a uniform distribution of writes across shards, which is
often optimal for ingesting streams of time-series and event data.

Zoned Sharding

 Provides the ability for developers to define specific rules governing data placement in a sharded cluster.

Data Availability and Reliability



Going to Cloud

Fully managed cloud service

