MongoDB: A primer for MySQL DBAs

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HUMONGOUS

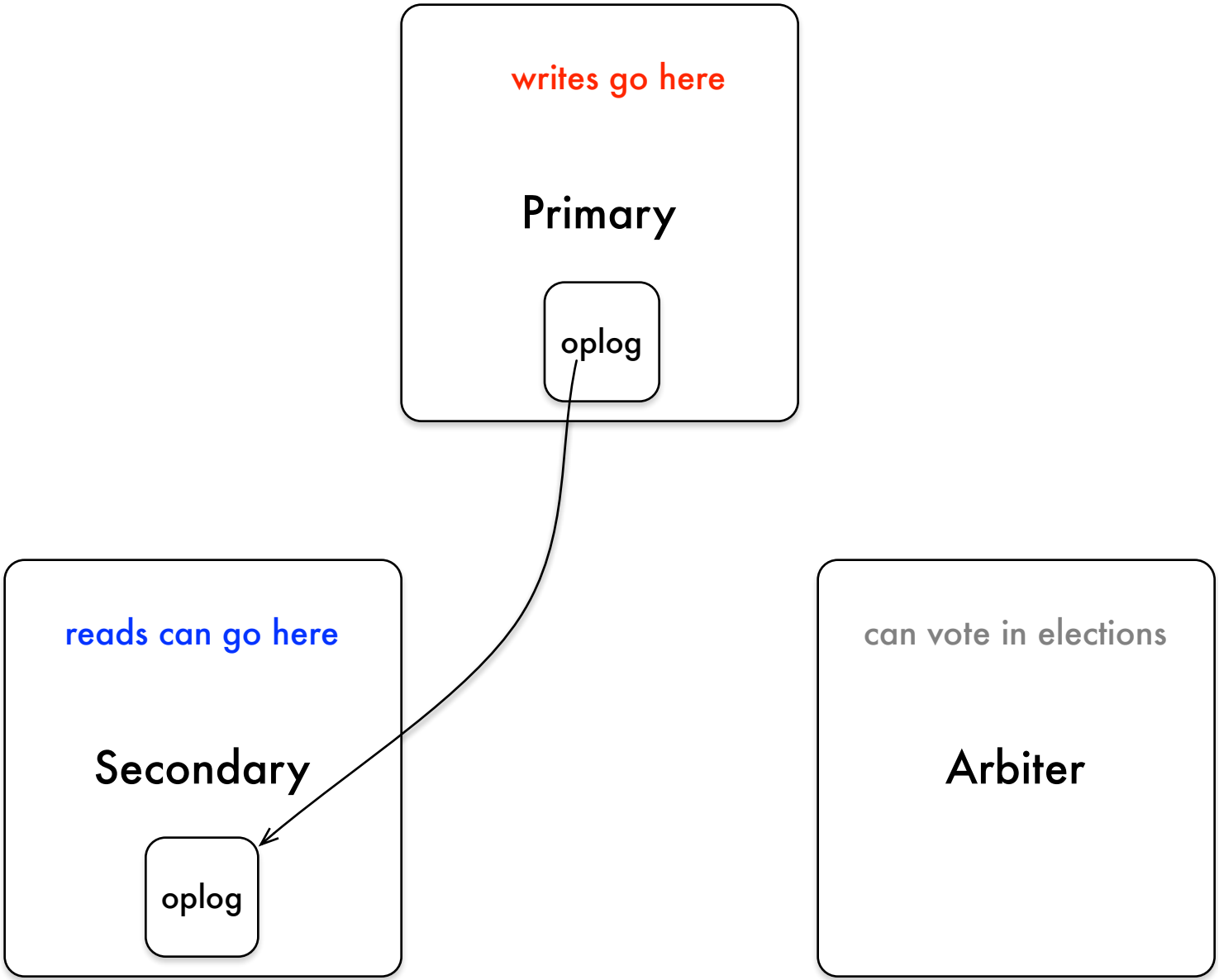
What is it?

Document oriented

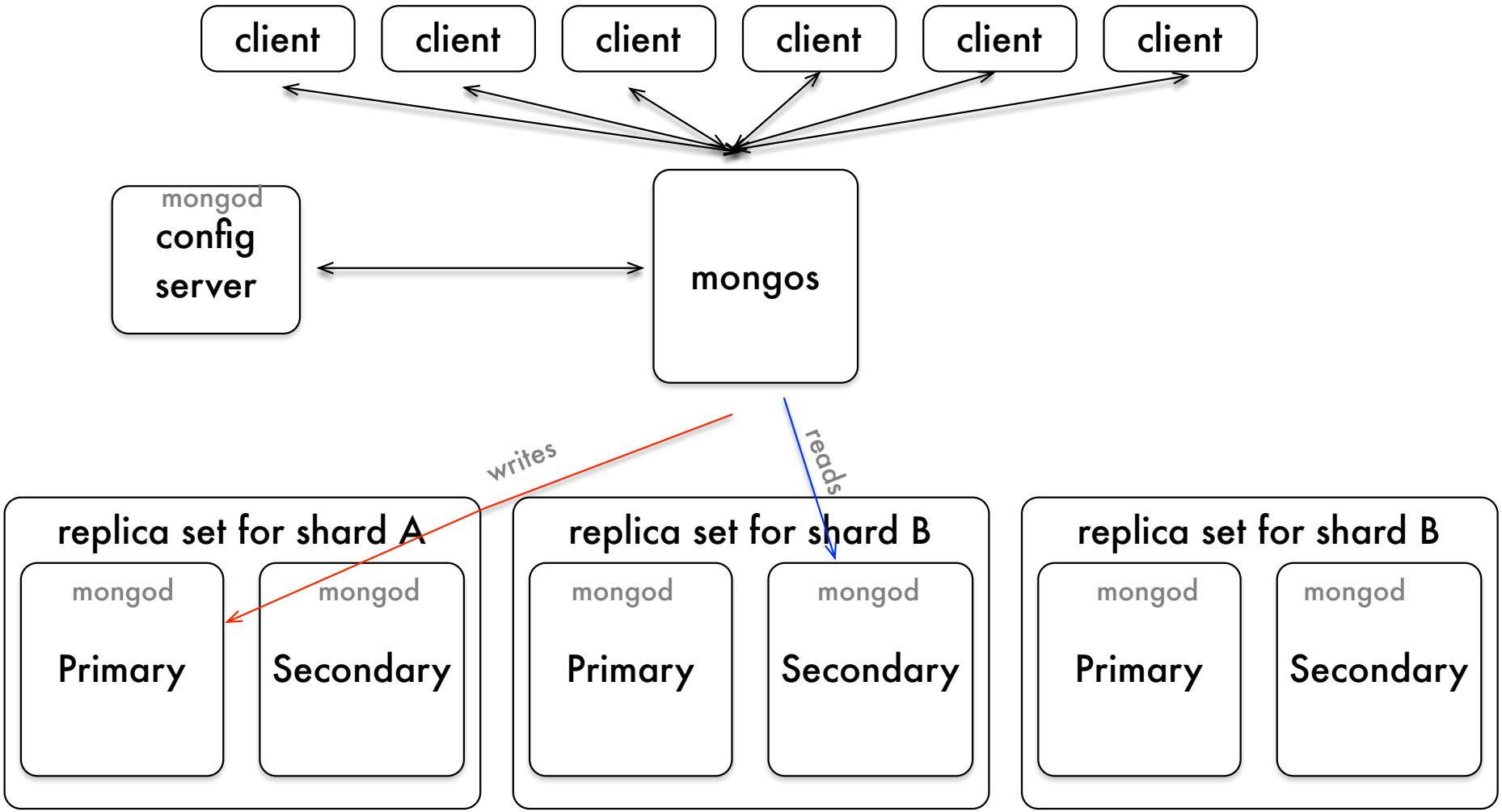
Dynamic schema

MySQL	MongoDB
Table	Collection
Row	Document
Column	Field

Built-in HA


writes go here
Primary
oplog
reads can go here
Secondary
oplog
can vote in elections
Arbiter

Built-in Sharding


client
client
client
client
client
client
mongod
config
server
mongos
writes
reads
replica set for shard A
mongod
Primary
mongod
Secondary
replica set for shard B
mongod
Primary
mongod
Secondary
replica set for shard B
mongod
Primary
mongod
Secondary

Not ACID

Can be Durable with WiredTiger, RocksDB or PerconaFT

Storage Engine API

(since v3.0)

GOOD USE CASES

Rapid prototyping

Very heterogeneous data

Denormalized data

Relaxed consistency

Very fast changing schema

BAD USE CASES

Relational data

Queues

Strong consistency

Integrity

DEMO TIME