MongoDB: A primer for MySQL DBAs

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HUMONGOUS

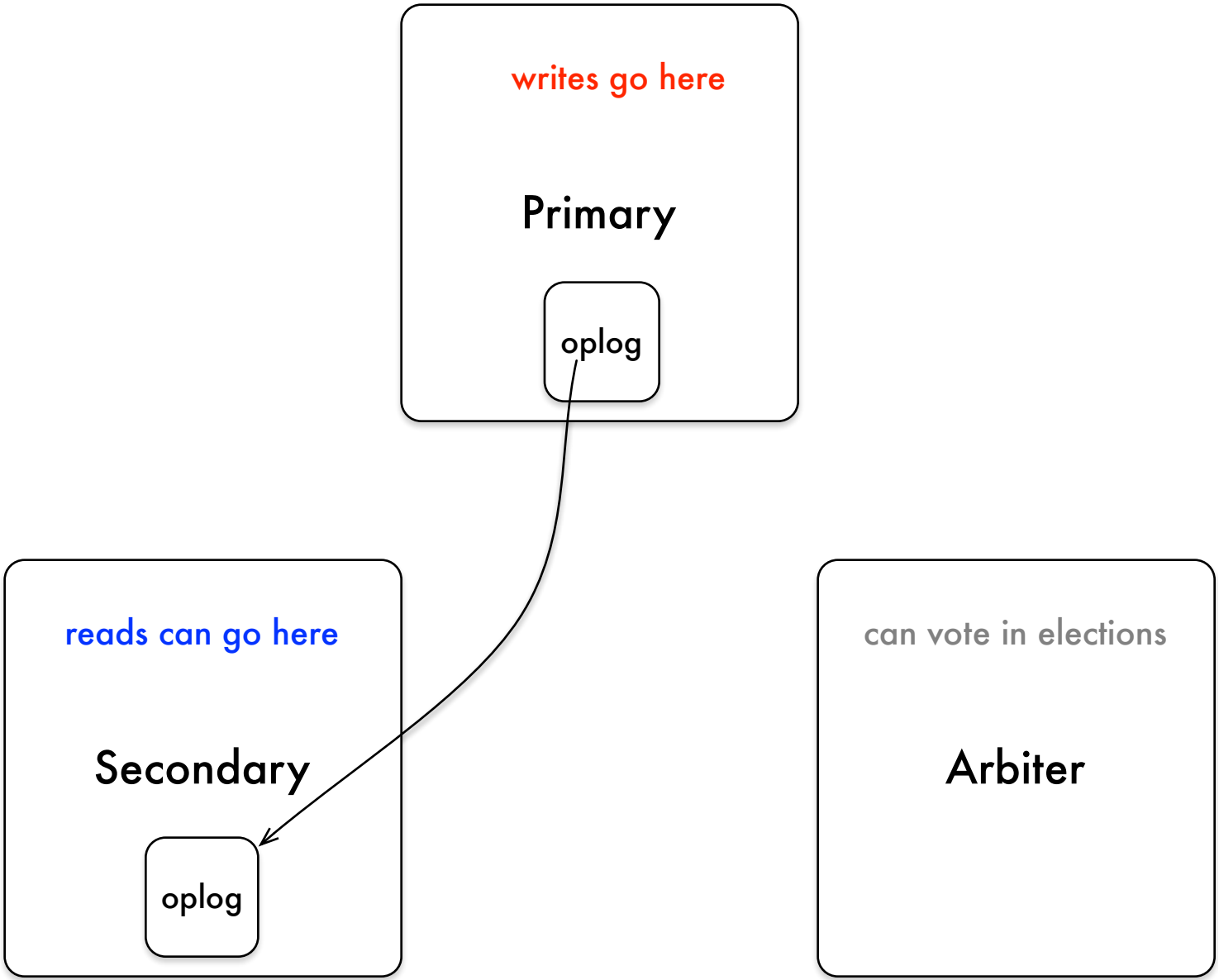
What is it?

Document oriented

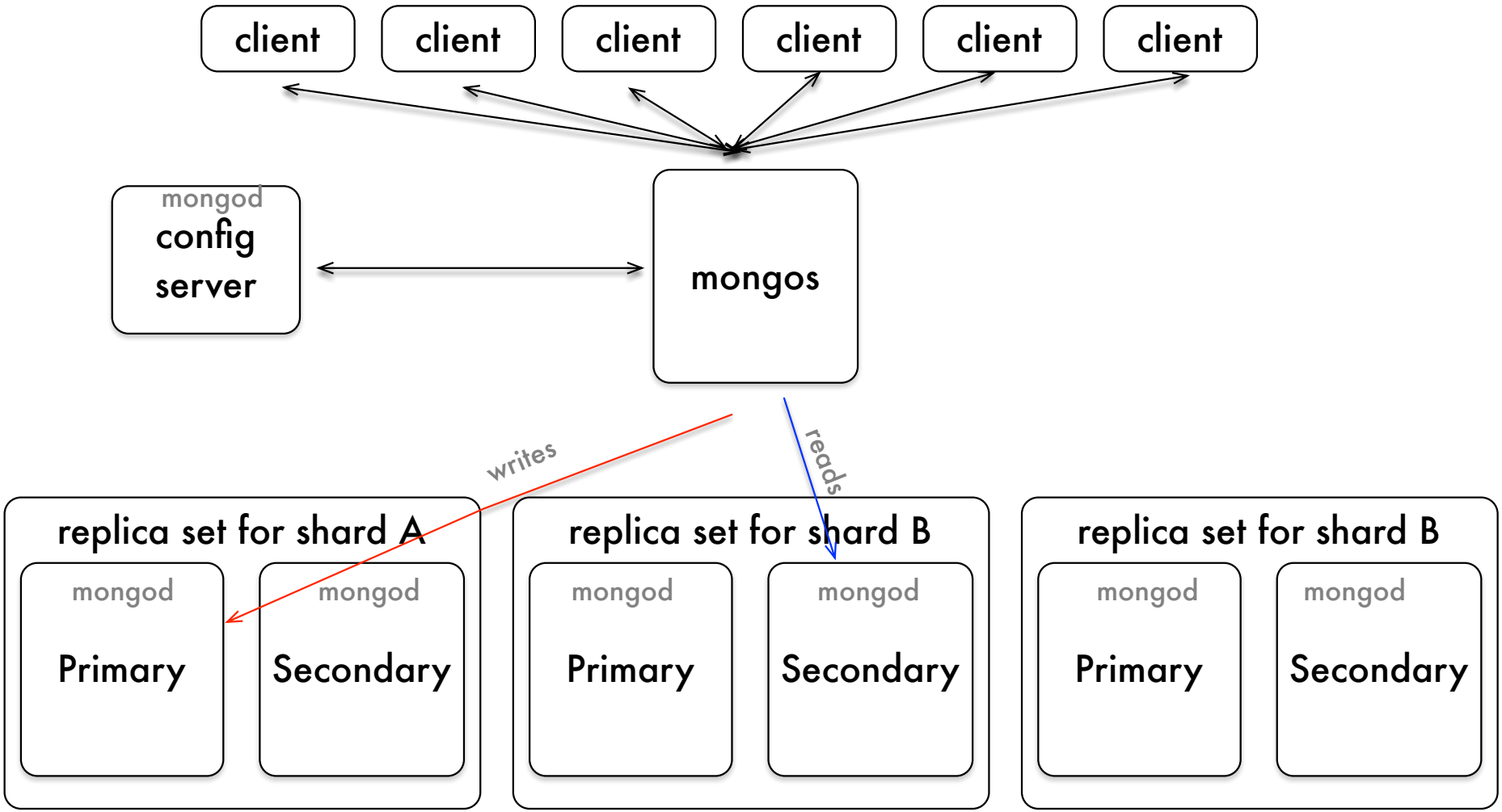
Dynamic schema

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)

https://github.com/jwilder/mongodb-tools

https://github.com/Percona-Lab/ognom-toolkit

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