
Couchbase

Couchbase API Operations

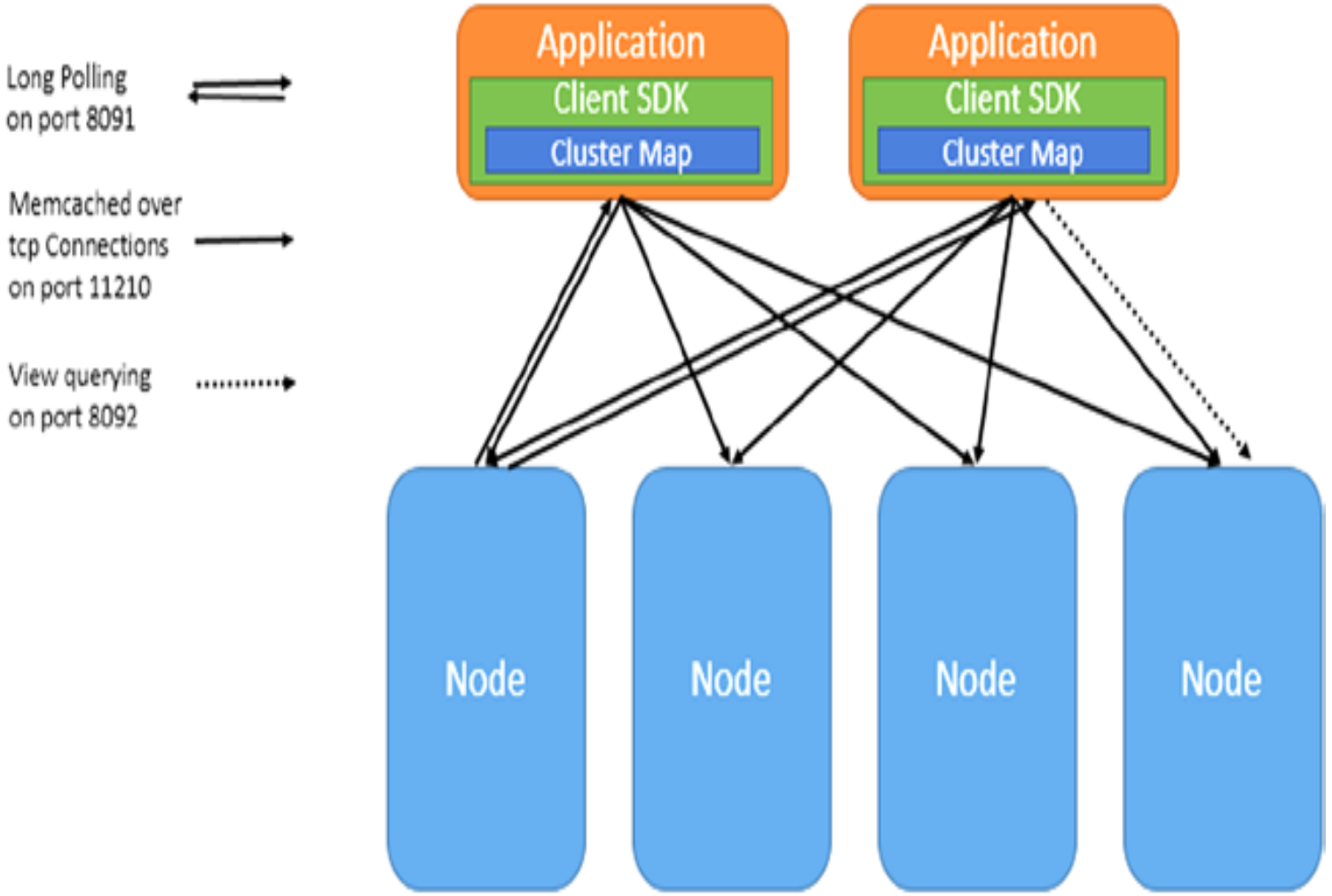
HP

Client Interface

- two major categories
  - smart clients
  - memcached-compatible

Connections

- Between Clients and Couchbase



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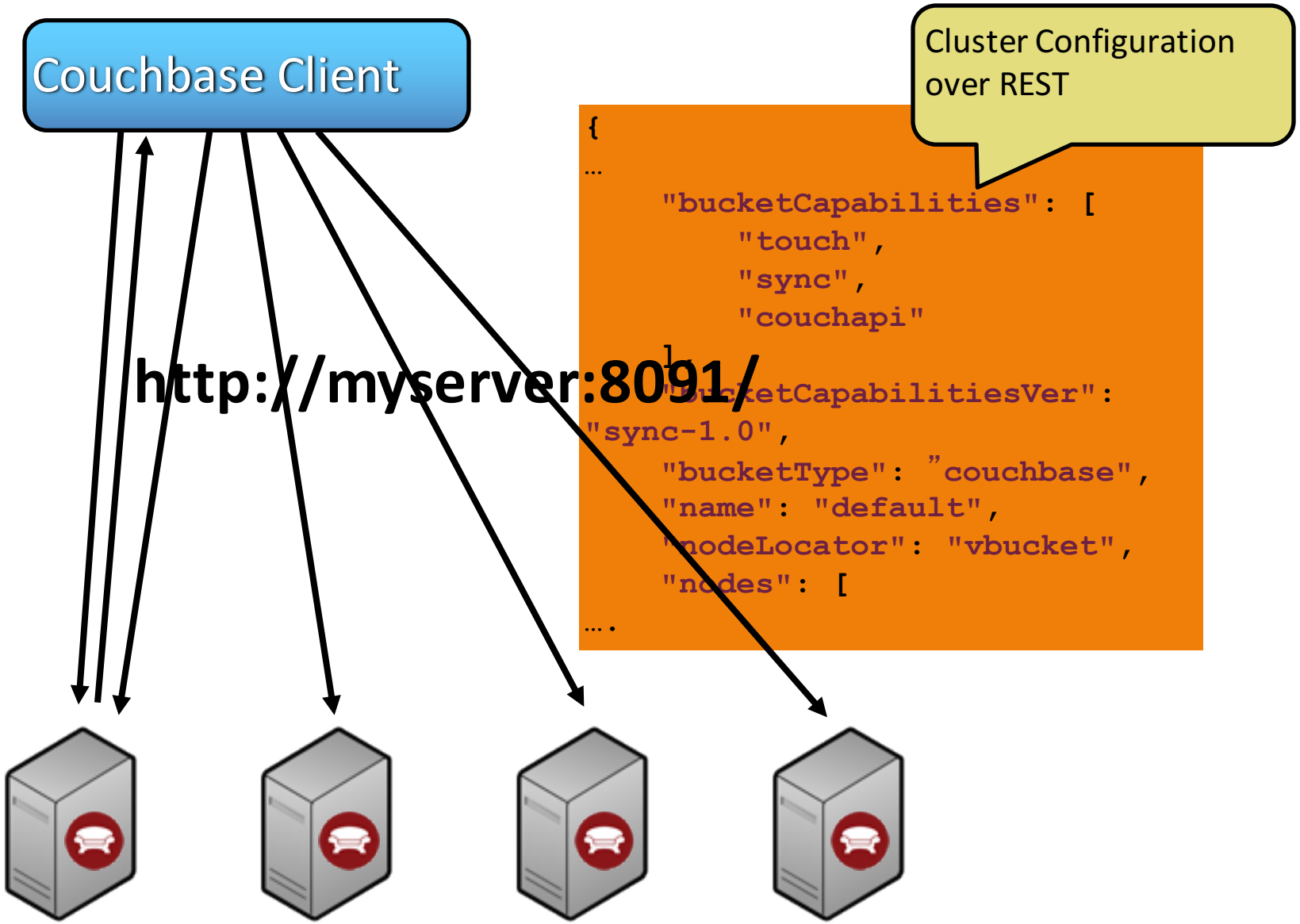
Client Setup: Cluster Configuration



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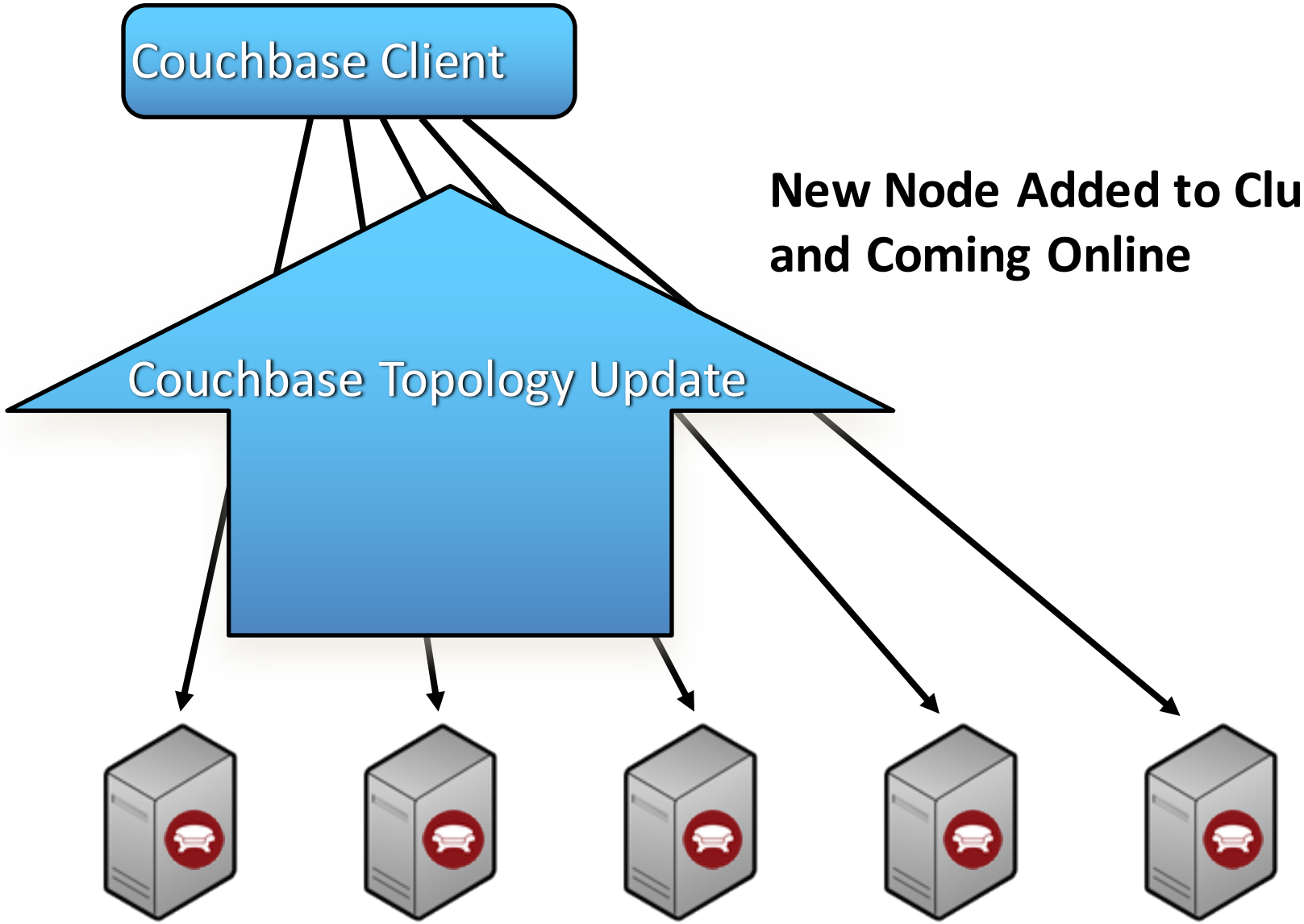
Client Setup: Cluster Configuration



New Node Added to Cluster and Coming Online

Couchbase

COUCHBASE OPERATIONS

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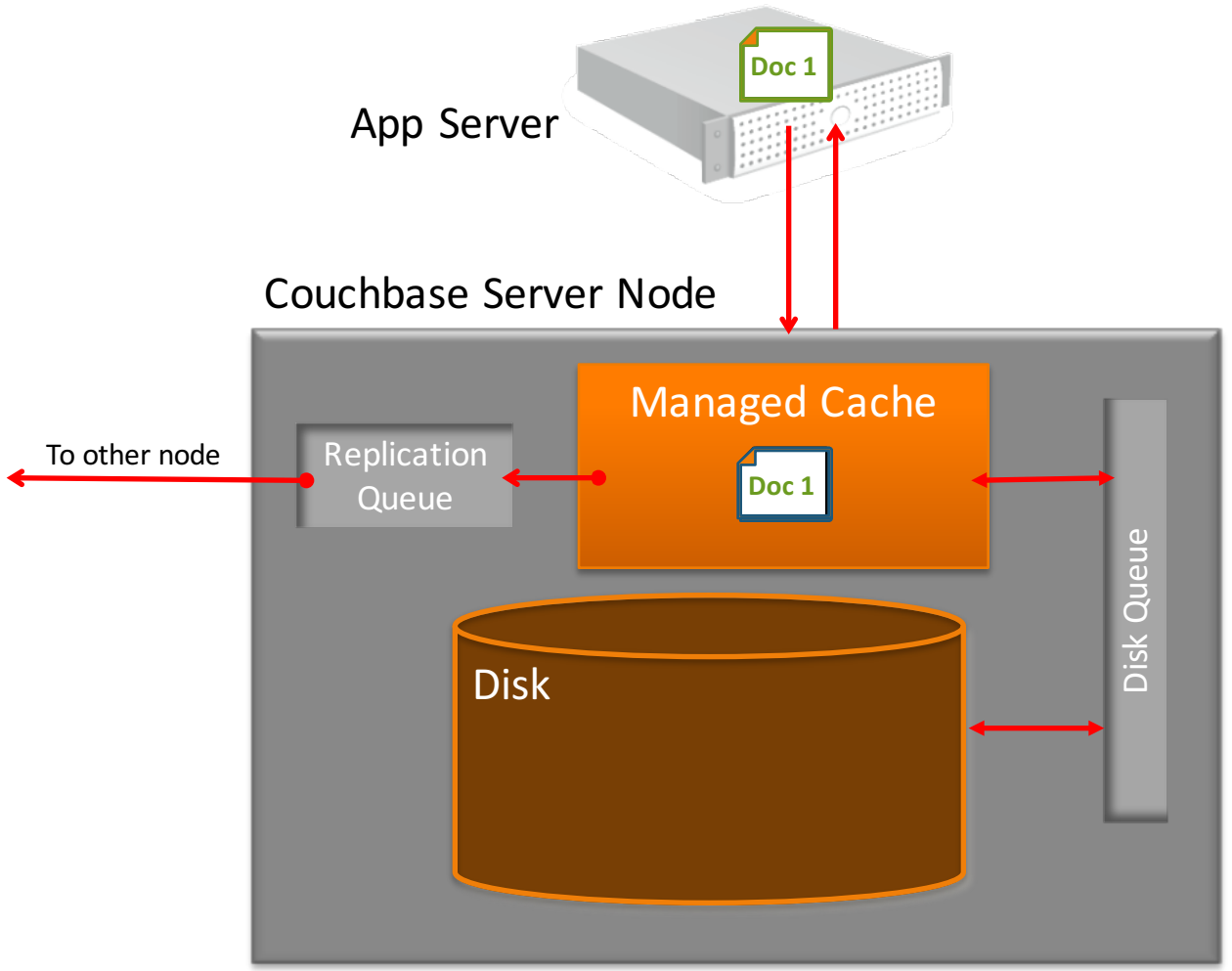
Single node - Couchbase Write Operation



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Single node - Couchbase Write Operation

1. A set request comes in from the application .
2. Couchbase Server responses back that they key is written
3. Couchbase Server then Replicates the data out to memory in the other nodes
4. At the same time it is put the data into a write que to be persisted to disk

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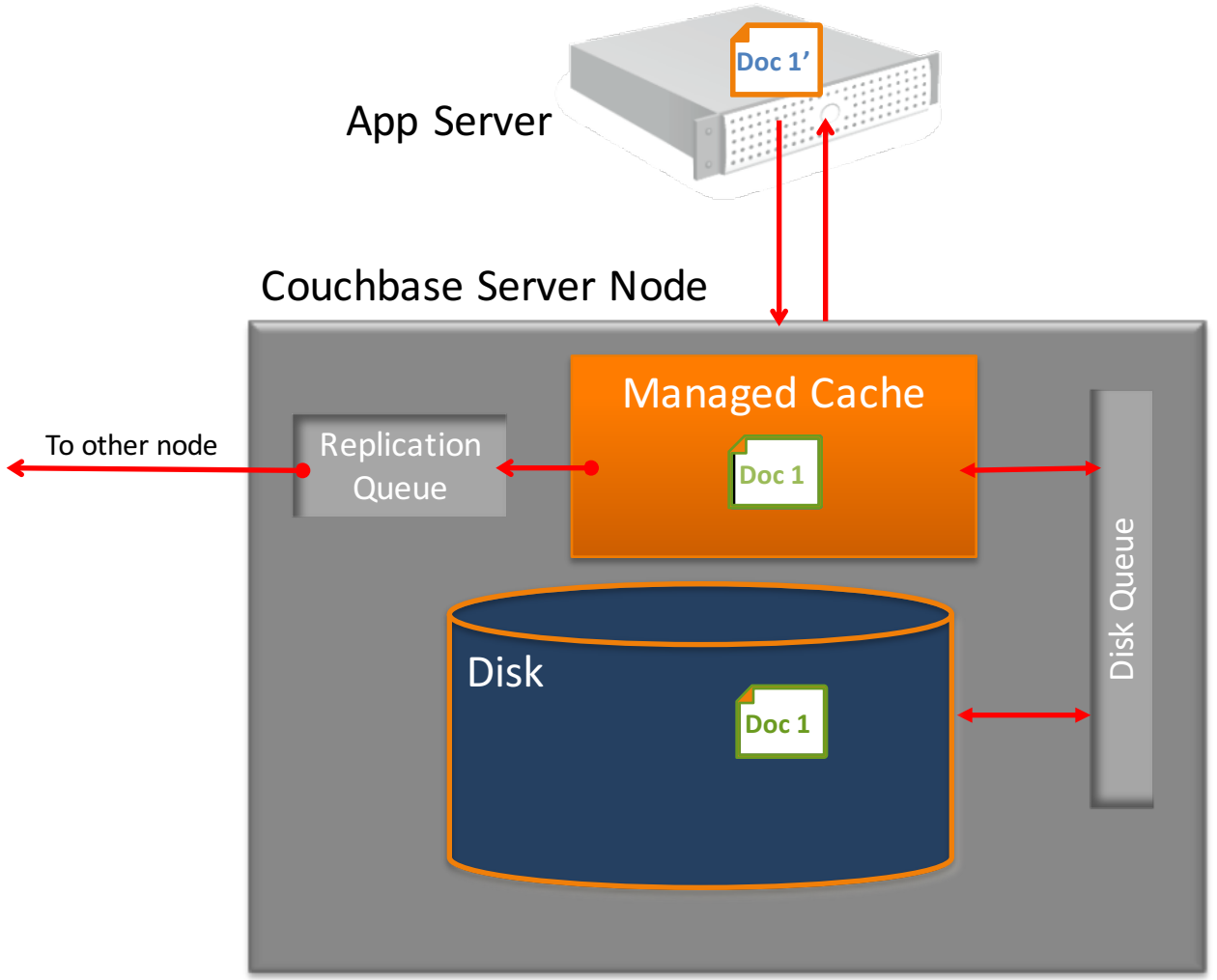
Single node - Couchbase Update Operation



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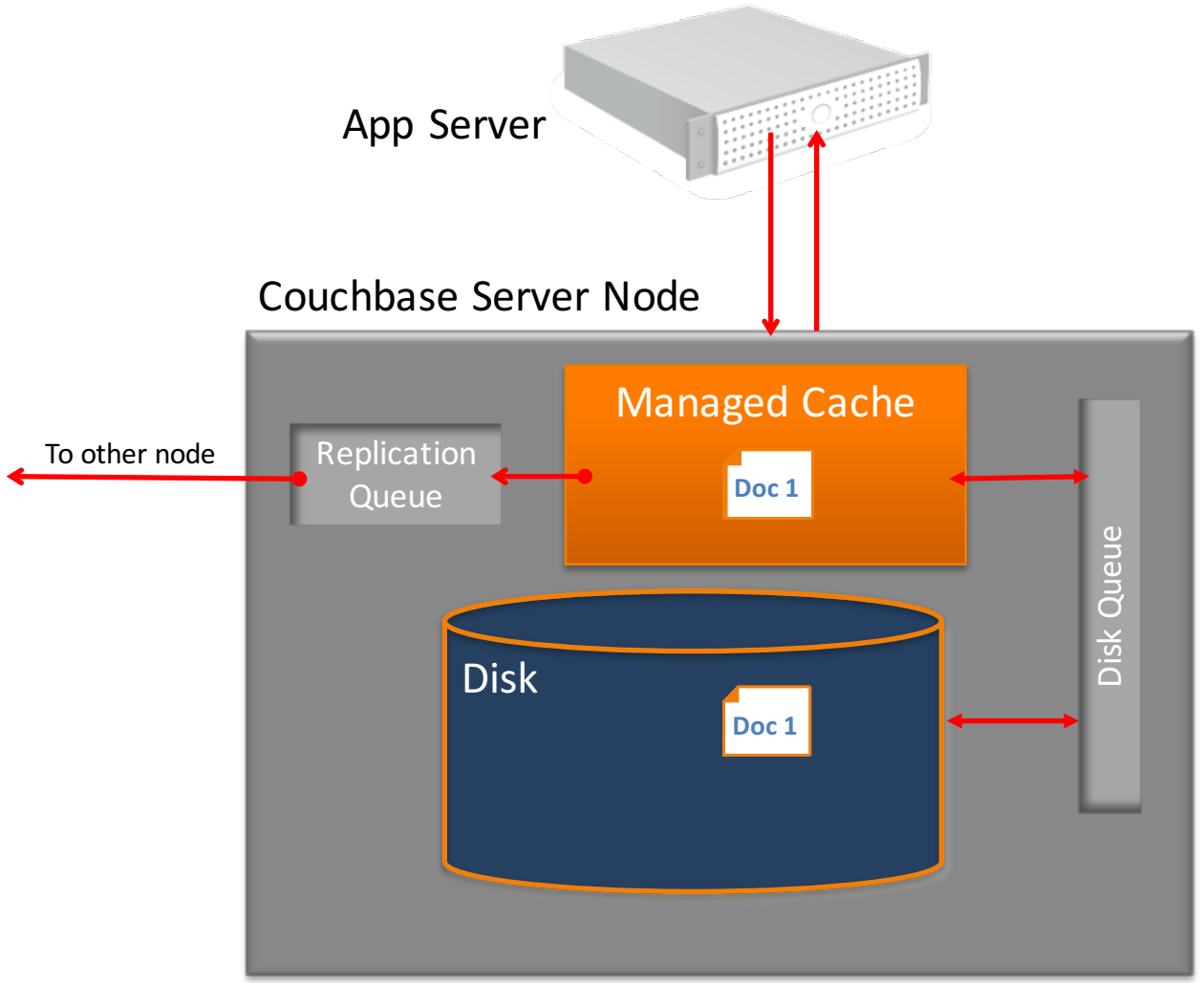
Single node - Couchbase Read Operation



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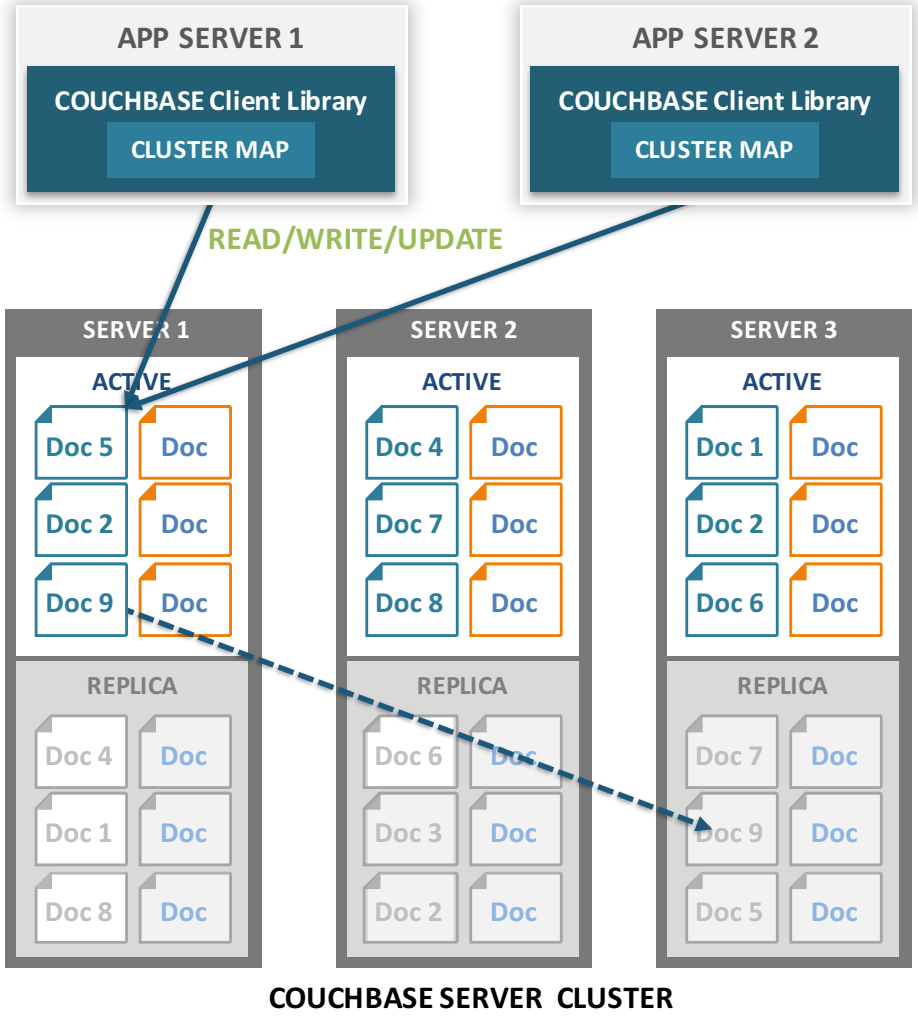
Basic Operation



- **Docs distributed evenly across servers**
- **Each server stores both active and replica docs**
  Only one server active at a time
- **Client library provides app with simple interface to database**
- **Cluster map provides map to which server doc is on**
  App never needs to know
- **App reads, writes, updates docs**
- **Multiple app servers can access same document at same time**

User Configured Replica Count = 1