



Getting AEM6.0 to work with MongoDB

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Topics of Discussion

- Quick Overview of MongoDB
- AEM6 + MongoDB
- AEM6 + Mongo Replica
- AEM7 + Mongo Sharding
- Q & A

MongoDB

- Document-oriented database system
 - Document is semi-structured data
- NoSQL database
 - Does not use traditional table like RDBMS. Use JSON-like documents with dynamic schemas (BSON)
- Download: <http://www.mongodb.org/downloads>

RDBMS	MongoDB
Table	Collection
Column	Key
Value	Value
Record/Rows	Document/Object

Getting Started MongoDB

- mongod - primary daemon process for the MongoDB system
- mongo - an interactive JavaScript shell interface to MongoDB
- mongos - a routing and processing service for MongoDB shard configurations

```
$> mongod --dbpath=<path-to-db-folder>  
    --directoryperdb  
    --logpath <path-to-log-file>  
    --logappend  
    --fork
```

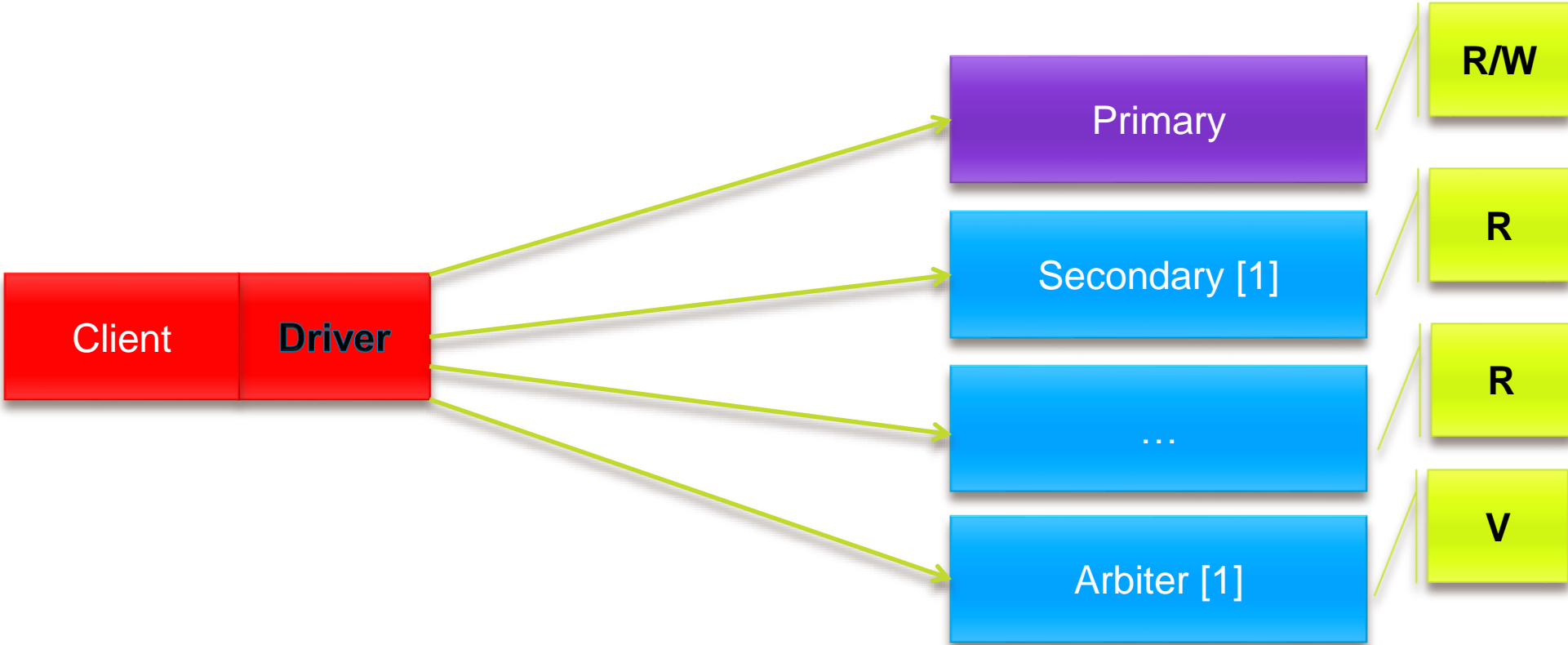
AEM6 quickstart Run Modes

Run Mode	
crx2	default for Granite (Backward compatibility)
crx3	default for CQ (TarMK)
crx3,crx3mongo	MongoMk

```
$> java -jar $AEM_HOME/cq6-quickstart.jar  
-r crx3,crx3mongo,author  
-Doak.mongo.db=<db-name>  
-Doak.mongo.uri=<connection-uri>
```

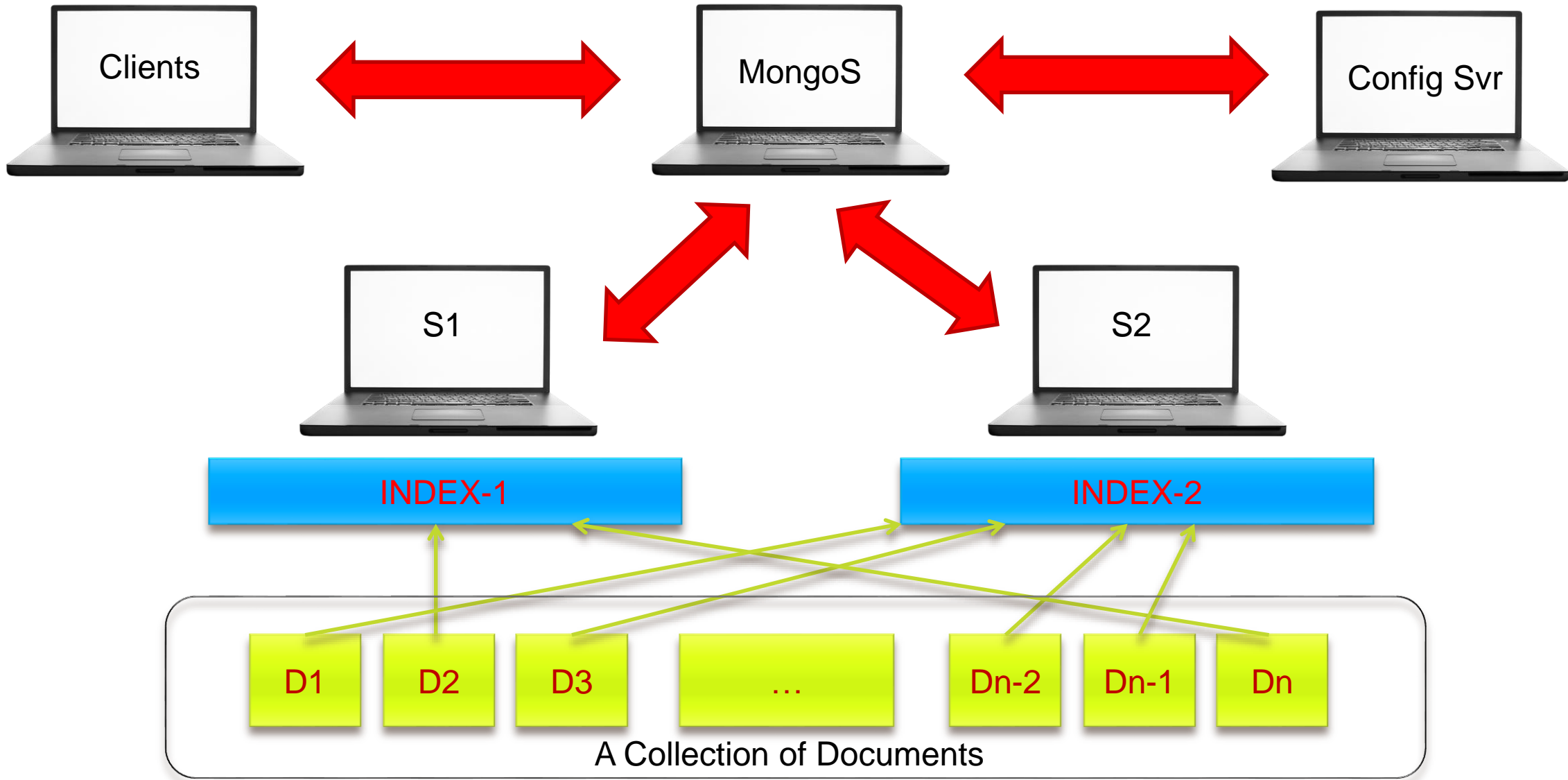
DEMO: Single Mongo Instance

Replica Sets (e.g. MongoDB Cluster)



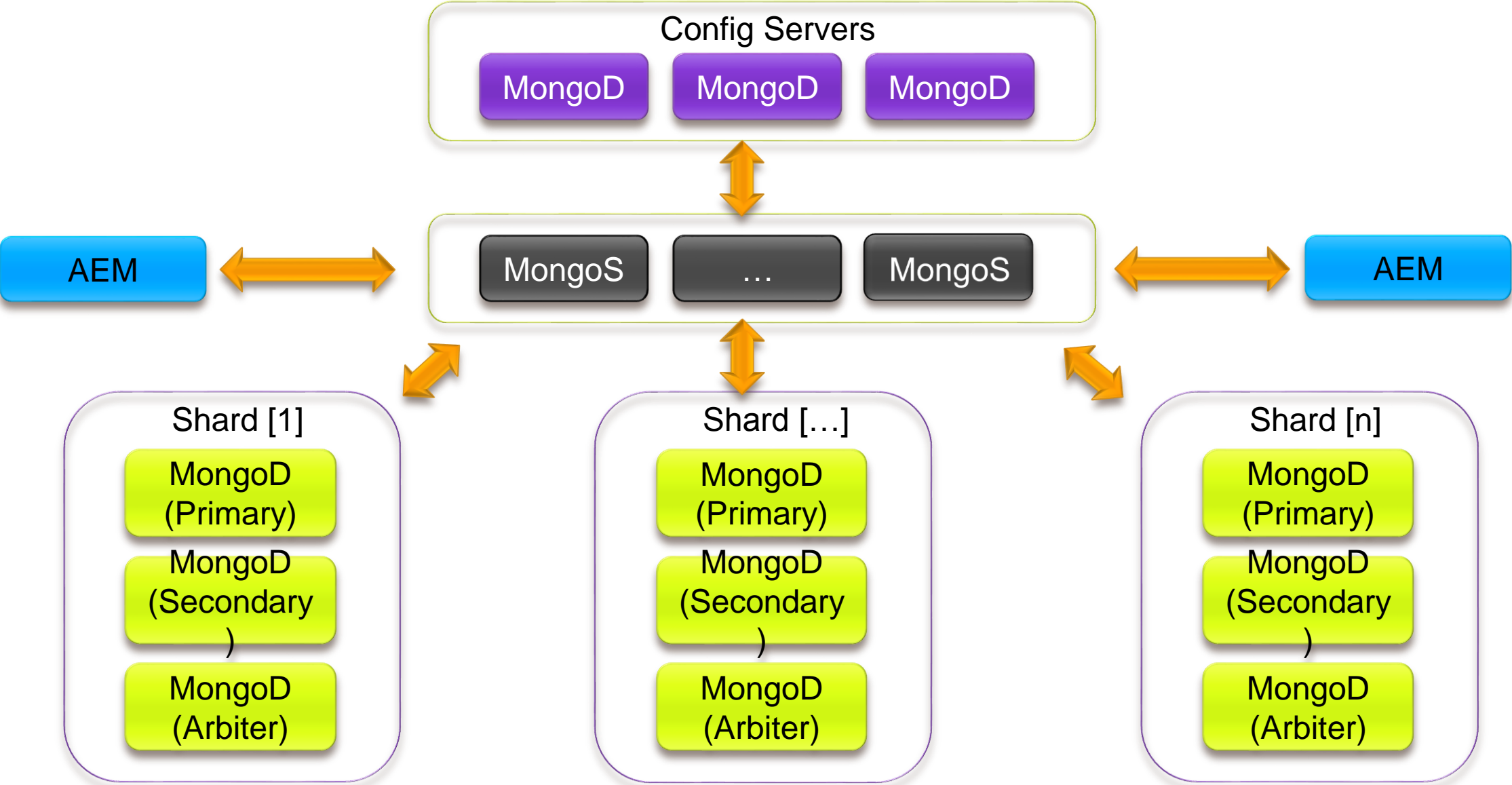
DEMO: Mongo Replica

Sharding Basic



DEMO: Mongo Sharding

Sharding + Replica Environment



Q & A



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