

Chapter 3: Sharding

Lab - Documents in Chunks

Problem:

Lab Prerequisites

This lab assumes that the `m103.products` collection is sharded on `sku`. If you sharded on `name` instead, you must reimport the dataset and shard it on `sku`. Here are the instructions to do this:

1. Drop the collection `m103.products` and reimport the dataset:

```
mongoimport --drop /dataset/products.json --port 26000 -u "m103-admin" \
-p "m103-pass" --authenticationDatabase "admin" \
--db m103 --collection products
```

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2. Create an index on `sku`:

```
db.products.createIndex({"sku":1})
```

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3. Enable sharding on `m103` if not enabled:

```
sh.enableSharding("m103")
```

4. Shard the collection on `sku`:

```
db.adminCommand({shardCollection: "m103.products", key: {s
```

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Correct! [SEE DETAILED ANSWER](#)

correct shards.



Lab Description

In this lab, you are going to use the sharded cluster you created earlier in this lesson and derive which chunk a given document resides.

Connect to the `mongos` and authenticate as the `m103-admin` user you created in an earlier lab.

Once connected, execute the following operation:


```
db.getSiblingDB("m103").products.find({"sku" : 21572585 })
```

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Locate the chunk that the specified document resides on and pass the full chunk ID to the validation script provided in the handout. You need to run the validation script in your vagrant and outside the mongo shell.

**hint** `sh.status()` does not provide the chunk ID that you need to report for this lab. Look in the **config** database for the collection that stores all **chunk** information. Think in ranges - you want to find the chunk whose range is `min <= key < max`.

```
vagrant@m103:~$ validate_lab_document_chunks <chunk-id>
```

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Enter the validation key you receive below. The script returns verbose errors that should provide you with guidance on what went wrong.

Attempts Remaining: **Correct Answer**   

Enter answer here:

5ac28a604c7baf1f5c25d51b

Correct!

See detailed answer

Proceed to next section

Assignment is Due

18d:01hr:52m  
Dec 17, 17:00 UTC

Your Grade

PASS/FAIL  
Submitted