Name : Vivek Panchal

ISTE - 610

1. **Start the database with mongod using the --auth flag. Note two dashes.**

C:\Users\vivek 14>mongod --auth

2019-04-18T18:40:44.842-0400 I CONTROL [initandlisten] MongoDB starting : pid=8

472 port=27017 dbpath=C:\data\db\ 64-bit host=vivek

2019-04-18T18:40:44.842-0400 I CONTROL [initandlisten] targetMinOS: Windows 7/W

indows Server 2008 R2

2019-04-18T18:40:44.843-0400 I CONTROL [initandlisten] db version v3.6.11-rc1

2019-04-18T18:40:44.843-0400 I CONTROL [initandlisten] git version: 2151d1d219b

baff918db0d43fcb812231c20d53a

2019-04-18T18:40:44.844-0400 I CONTROL [initandlisten] OpenSSL version: OpenSSL

1.0.2o-fips 27 Mar 2018

2019-04-18T18:40:44.844-0400 I CONTROL [initandlisten] allocator: tcmalloc

2019-04-18T18:40:44.844-0400 I CONTROL [initandlisten] modules: none

2019-04-18T18:40:44.845-0400 I CONTROL [initandlisten] build environment:

2019-04-18T18:40:44.845-0400 I CONTROL [initandlisten] distmod: 2008plus-ss

l

2019-04-18T18:40:44.845-0400 I CONTROL [initandlisten] distarch: x86\_64

2019-04-18T18:40:44.846-0400 I CONTROL [initandlisten] target\_arch: x86\_64

2019-04-18T18:40:44.846-0400 I CONTROL [initandlisten] options: { security: { a

uthorization: "enabled" } }

2019-04-18T18:40:44.848-0400 I - [initandlisten] Detected data files in C

:\data\db\ created by the 'wiredTiger' storage engine, so setting the active sto

rage engine to 'wiredTiger'.

2019-04-18T18:40:44.848-0400 I STORAGE [initandlisten] wiredtiger\_open config:

create,cache\_size=3539M,session\_max=20000,eviction=(threads\_min=4,threads\_max=4)

,config\_base=false,statistics=(fast),compatibility=(release="3.0",require\_max="3

.0"),log=(enabled=true,archive=true,path=journal,compressor=snappy),file\_manager

=(close\_idle\_time=100000),statistics\_log=(wait=0),verbose=(recovery\_progress),

2019-04-18T18:40:45.261-0400 I STORAGE [initandlisten] WiredTiger message [1555

627245:260531][8472:140709693362304], txn-recover: Main recovery loop: starting

at 43/30592

2019-04-18T18:40:45.451-0400 I STORAGE [initandlisten] WiredTiger message [1555

627245:451667][8472:140709693362304], txn-recover: Recovering log 43 through 44

2019-04-18T18:40:45.632-0400 I STORAGE [initandlisten] WiredTiger message [1555

627245:631901][8472:140709693362304], txn-recover: Recovering log 44 through 44

2019-04-18T18:40:45.745-0400 I STORAGE [initandlisten] WiredTiger message [1555

627245:744930][8472:140709693362304], txn-recover: Set global recovery timestamp

: 0

2019-04-18T18:40:46.410-0400 I CONTROL [initandlisten]

2019-04-18T18:40:46.410-0400 I CONTROL [initandlisten] \*\* WARNING: This server

is bound to localhost.

2019-04-18T18:40:46.411-0400 I CONTROL [initandlisten] \*\* Remote syste

ms will be unable to connect to this server.

2019-04-18T18:40:46.412-0400 I CONTROL [initandlisten] \*\* Start the se

rver with --bind\_ip <address> to specify which IP

2019-04-18T18:40:46.413-0400 I CONTROL [initandlisten] \*\* addresses it

should serve responses from, or with --bind\_ip\_all to

2019-04-18T18:40:46.414-0400 I CONTROL [initandlisten] \*\* bind to all

interfaces. If this behavior is desired, start the

2019-04-18T18:40:46.415-0400 I CONTROL [initandlisten] \*\* server with

--bind\_ip 127.0.0.1 to disable this warning.

2019-04-18T18:40:46.416-0400 I CONTROL [initandlisten]

2019-04-18T18:40:46.578-0400 I FTDC [initandlisten] Initializing full-time d

iagnostic data capture with directory 'C:/data/db/diagnostic.data'

2019-04-18T18:40:46.580-0400 I NETWORK [initandlisten] waiting for connections

on port 27017

2. **use admin**

> use admin

switched to db admin

3. **Authenticate as the admin user**

> db.auth("admin","password");

1

4. **use SampleSocial**

> use SampleSocial

switched to db SampleSocial

5. **Create a new user in the SampleSocial database called “YourLastNameFind”. Give it no access to the database (no roles).**

> db.createUser({ user:"panchal", pwd: "password" ,roles:[]})

Successfully added user: { "user" : "panchal", "roles" : [ ] }

6. **Authenticate as a new user**

> db.auth("panchal","password");

1

7**. Run a findOne() command in the Tweets Collection.This should give an error(no permissions)**.

> db.Tweets.findOne();

2019-04-16T15:42:54.478-0400 E QUERY [thread1] Error: error: {

"ok" : 0,

"errmsg" : "too many users are authenticated",

"code" : 13,

"codeName" : "Unauthorized"

} :

\_getErrorWithCode@src/mongo/shell/utils.js:25:13

DBCommandCursor@src/mongo/shell/query.js:725:1

DBQuery.prototype.\_exec@src/mongo/shell/query.js:117:28

DBQuery.prototype.hasNext@src/mongo/shell/query.js:296:5

DBCollection.prototype.findOne@src/mongo/shell/collection.js:258:10

@(shell):1:1

8. **Create a role in the SampleSocial database called “findTweets”. Give the role the privilege to find in the Tweets collection**.

> db.createRole({ role: "findTweets",privileges:[{ resource: {db:"SampleSocial",

collection:"Tweets"}, actions: [ "find"] }],roles:[]});

{

"role" : "findTweets",

"privileges" : [

{

"resource" : {

"db" : "SampleSocial",

"collection" : "Tweets"

},

"actions" : [

"find"

]

}

],

"roles" : [

{

"role" : "read",

"db" : "admin"

}

]

}

9. **Authenticate as admin**

> use admin

switched to db admin

> use SampleSocial

switched to db SampleSocial

10. **Give the new role to YourLastNameFind**

> db.grantRolesToUser("panchal",[{role: "findTweets", db: "SampleSocial"}]);

11**. Authenticate your YourLastNameFind**

> use SampleSocial

switched to db SampleSocial

> db.auth("panchal","password")

1

12. **Run a findOne() command in the Tweets collection, again. It should work this time**

> db.Tweets.findOne()

{

"\_id" : ObjectId("5c7c5371a729b9fdfc0f6431"),

"id" : 129690,

"fromUser" : "barbaratalia",

"fromUserId" : 364445596,

"fromUserName" : "Barbara Talia",

"twitterTweetId" : 263000000000000000,

"LanguageCode" : "en",

"profileImageUrl" : "http://a0.twimg.com/profile\_images/2279235354/image

\_normal.jpg",

"source" : "&lt;a href=&quot;http://instagr.am&quot;&gt;Instagram&lt;/a&

gt;",

"text" : "Tree fell on Two cars. #hurricanesandy #sandy @ Central Park

- Great Lawn http://t.co/cX7I352D",

"latitude" : 40.780866,

"longitude" : -73.96687,

"createdAt" : "Tue, 30 Oct 2012 23:25:44 +0000"

}

13. **Run a findOne() command in the Blogs collection. It should fail.**

> db.Blogs.findOne()

2019-04-17T19:18:56.638-0400 E QUERY [thread1] Error: error: {

"ok" : 0,

"errmsg" : "not authorized on SampleSocial to execute command { find: \"

Blogs\", filter: {}, limit: 1.0, singleBatch: true, lsid: { id: UUID(\"1da96a24-

26b4-4c86-9460-e309c07e2491\") }, $db: \"SampleSocial\" }",

"code" : 13,

"codeName" : "Unauthorized"

} :

\_getErrorWithCode@src/mongo/shell/utils.js:25:13

DBCommandCursor@src/mongo/shell/query.js:725:1

DBQuery.prototype.\_exec@src/mongo/shell/query.js:117:28

DBQuery.prototype.hasNext@src/mongo/shell/query.js:296:5

DBCollection.prototype.findOne@src/mongo/shell/collection.js:258:10

@(shell):1:1