



Chapter 2: Authorization and Encryption

Homework 2.1 : Create Users for Different Tasks

Problem:

For this homework exercise you're going to spin up a replica set and create some users with different roles based on the different tasks that each user needs to be able to perform.

Your replica set should be running on the following ports:

Type	Primary	Secondary	Secondary
Port	31210	31211	31212

Your replica set should have authentication enabled using a shared keyfile.

After you have your members up and running you can connect to the **mongod** running on port **31210**. Once connected create the following users:

User	Password	Can	Cannot
userAdmin	badges	create users on any database	run dbhash
sysAdmin	cables	configure a replica set and add shards	run hostInfo
dbAdmin	collections	create a collection on any database	run insert
dataLoader	dumpin	insert data on any database	run validate

The **Can** column denotes tasks that the user should be able to complete. The **Cannot** column denotes tasks that the user shouldn't have the privileges to complete. Your goal is to figure out which built-in role best suits the needs of each user.

All of these user's roles should be scoped to the **admin** database.

Note: You should assume that these privileges only extend to non-system collections. If you find a role that seems to fit these requirements, but find an action in the **Cannot** column being applied to a system collection you should continue to use that role.

After you've created the **sysAdmin** user you can authenticate against that user and add the other running members to the replica set.

Once you have your replica set up and running with authentication enabled and have all 4 users created with the appropriate roles you can run the validation script and copy the output into the submission area below.

 COPY

```
$ cd ~/shared
$ ./validate-hw-2.1.sh
```

Attempts Remaining: **Correct Answer**   

Enter answer here:

```
{"users": [ {"user":"dataLoader","roles":
[{"role":"readWriteAnyDatabase","db":"admin"}]},
{"user":"dbAdmin","roles":[{"role":"dbAdminAnyDatabase","db":"admin"}]},
{"user":"sysAdmin","roles":[{"role":"clusterManager","db":"admin"}]},
{"user":"userAdmin","roles":
[{"role":"userAdminAnyDatabase","db":"admin"}]} ], "numMembers":3 }
```

Correct!

[See detailed answer](#)

[Proceed to next section](#)

Assignment is Due

01d:02hr:10m

24 gru, 17:00 UTC

Your Grade

PASS/FAIL

Submitted