



Chapter 1: Authentication

Homework 1.2 : Enabling Authentication on a Running Replica Set

Problem:

For this lab you are going to take a running replica set (that doesn't have authentication enabled) and are going to enable authentication on it.

One of the provided scripts creates a replica set with authentication disabled.

After you've copied the handout scripts into the shared folder, run the following commands inside the VM in order to start the replica set.

```
$ cd ~/shared
$ ./setup-hw-1.2.sh
```

COPY

You can inspect `setup-hw-1.2.sh` to see the parameters used to set up the replica set, but for convenience here's that information.

Type	Primary	Secondary	Secondary
Port	31120	31121	31122
DBPath	~/M310-HW-1.2/r0	~/M310-HW-1.2/r1	~/M310-HW-1.2/r2
LogPath	~/M310-HW-1.2/r0/mongodb.log	~/M310-HW-1.2/r1/mongodb.log	~/M310-HW-1.2/r2/mongodb.log

In order to enable authentication on this running replica set you're going to need to figure out how to perform the following tasks.

- Create a keyfile to use for internal authentication between the members of the replica set.
- Safely shutdown each member of the replica set, starting with the secondaries to prevent any rollbacks.

- Starting with the primary, restart each member using the shared keyfile you generated.
- Finally, create a user with the **root** role with the username **admin** and the password **webscale** on the **admin** database.

Note: If you don't create a user with these credentials, you will not get the correct output for submitting your answer.

After you've enabled authentication on the replica set you can run the following script and copy the output into the submission area below.

```
$ cd ~/shared
$ ./validate-hw-1.2.sh
```

 COPY

Note: If you've successfully enabled authentication on the replica set, then the validation script should output a JSON object with two keys: **unauthorizedStatus** and **memberStatuses**. The first key confirms that authentication is enabled, and the second verifies that all members are still up and running.

Attempts Remaining: **Correct Answer**   

Enter answer here:

```
{ unauthorizedStatus: { "ok" : 0, "errmsg" : "not authorized on
admin to execute command { replSetGetStatus: 1.0 }", "code" : 13 },
memberStatuses: ["PRIMARY","SECONDARY","SECONDARY"] }
```

Correct!

[See detailed answer](#)

[Proceed to next section](#)

Assignment is Due

12d:02hr:54m

Dec 17, 17:00 UTC

Your Grade

PASS/FAIL

Submitted