



Chapter 4: Connectivity

Lab: Diagnosing unknown issues

Problem:

In this lab, you are asked to diagnose an unknown issue. Developers relying on a MongoDB deployment you administer are complaining that database is taking longer and longer to respond. Additionally, the server which the **current primary** is on crashes after an unspecified amount of time. This happens on every server.

You can download the required dataset, [companies.json](#), [here](#).

Let's go ahead and setup the environment.

- First, launch a replica set using mtools with the name "m312rs"



```
cd m312-vagrant-env
vagrant up
vagrant ssh
mlaunch --replicaset --name "m312rs" --port 30000 --
wiredTigerCacheSizeGB 0.5 --oplogSize 100
```

- The following step is to download the necessary handouts and make them available in your **m312** virtual machine:



```
cp Downloads/lab1_chapter4.py m312-vagrant-env/shared
cp Downloads/companies.json m312-vagrant-env/dataset
```

The command line example is set for Unix but a simple copy of this file will suffice

- Next, we will load the dataset into our replica set. Let's load the data into a collection named **companies**



```
vagrant ssh
mongoimport --host m312rs/m312 --port 30000 -d m312 -c companies
/dataset/companies.json
```

- Now execute the homework script

```
/shared/lab1_chapter4.py
```

[COPY](#)

- Open a new terminal window and make sure to ssh in to your vagrant box.
- Let the script run for a minute and begin checking the replica set. What is the primary issue?

Attempts Remaining: **Correct Answer**   

Check all answers that apply:

☐ The amount of operations has caused the mongods to reach the CPU limit for the server.

☐ `{w: "majority"}` is being specified and it's taking too long for the mongods to acknowledge writes.

☒ The connection pool continually grows, ultimately starving the server of resources.

☐ The replica set has no primary.

[See detailed answer](#)

Assignment is Due

00d:03hr:37m

24 gru, 17:00 UTC

Your Grade

PASS/FAIL

Submitted