

Homework 4

Objective: The purpose of this Hw was to practice with looking up technical information on the MongoDB web site, and get more familiar with some basic configuration options of MongoDB.

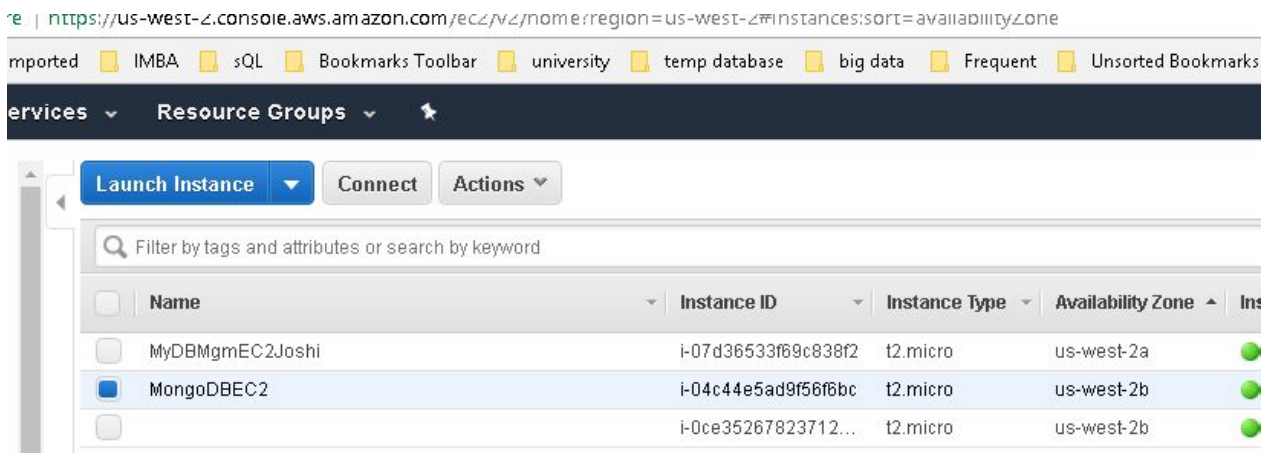


Figure- My server is MongoDBEC2

While I use the same client I used for MS SQL Server.

Folder creation.

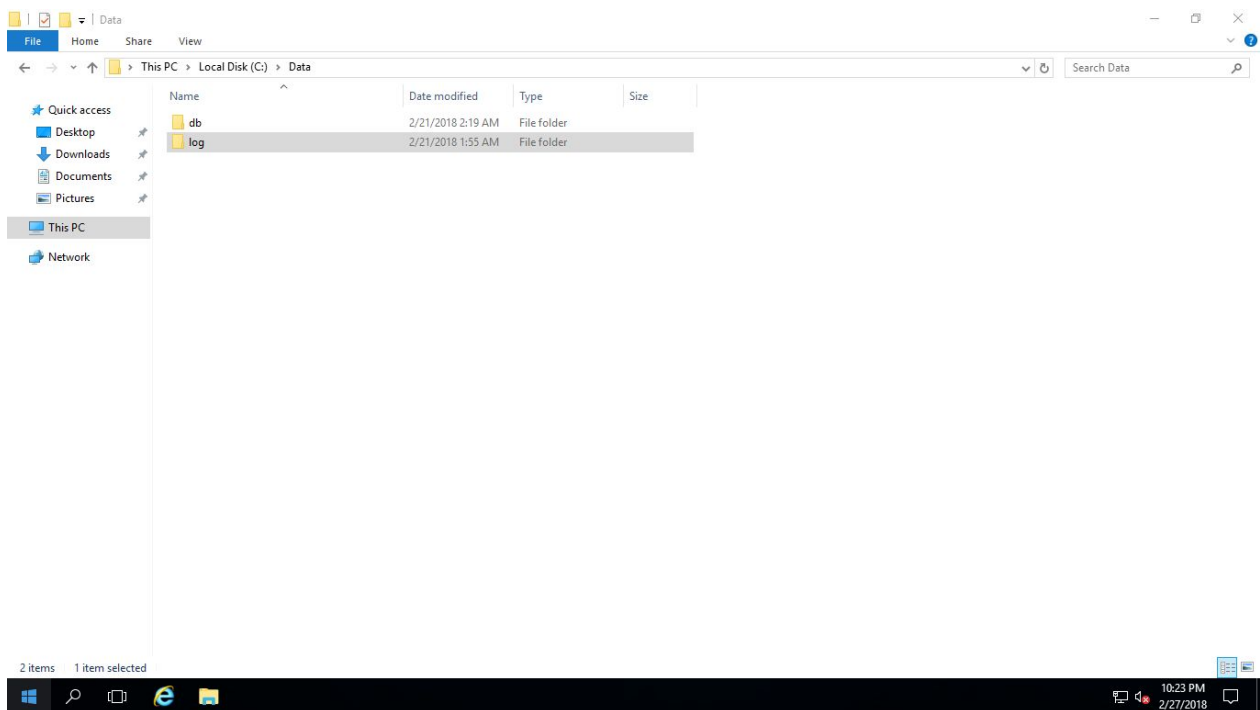


Figure - Server installation

I used the MongoDB instance I deployed during the class.

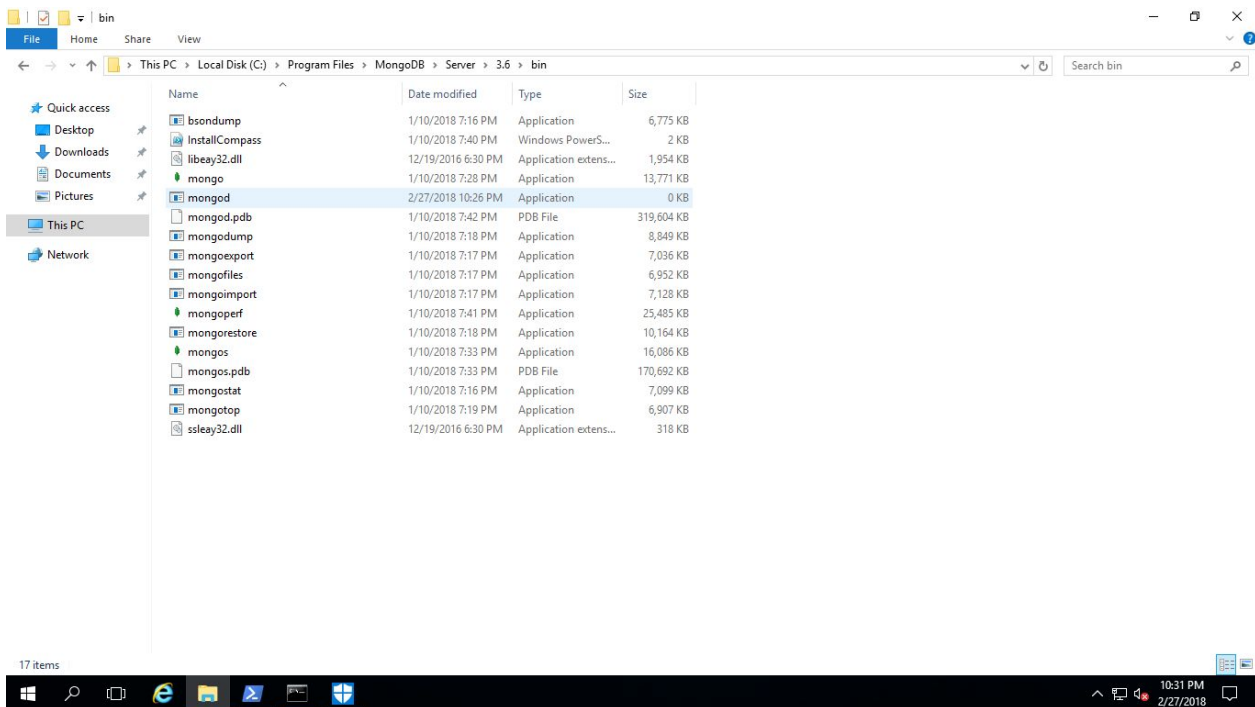


Figure: Server file to run. Checking if it installed correctly.

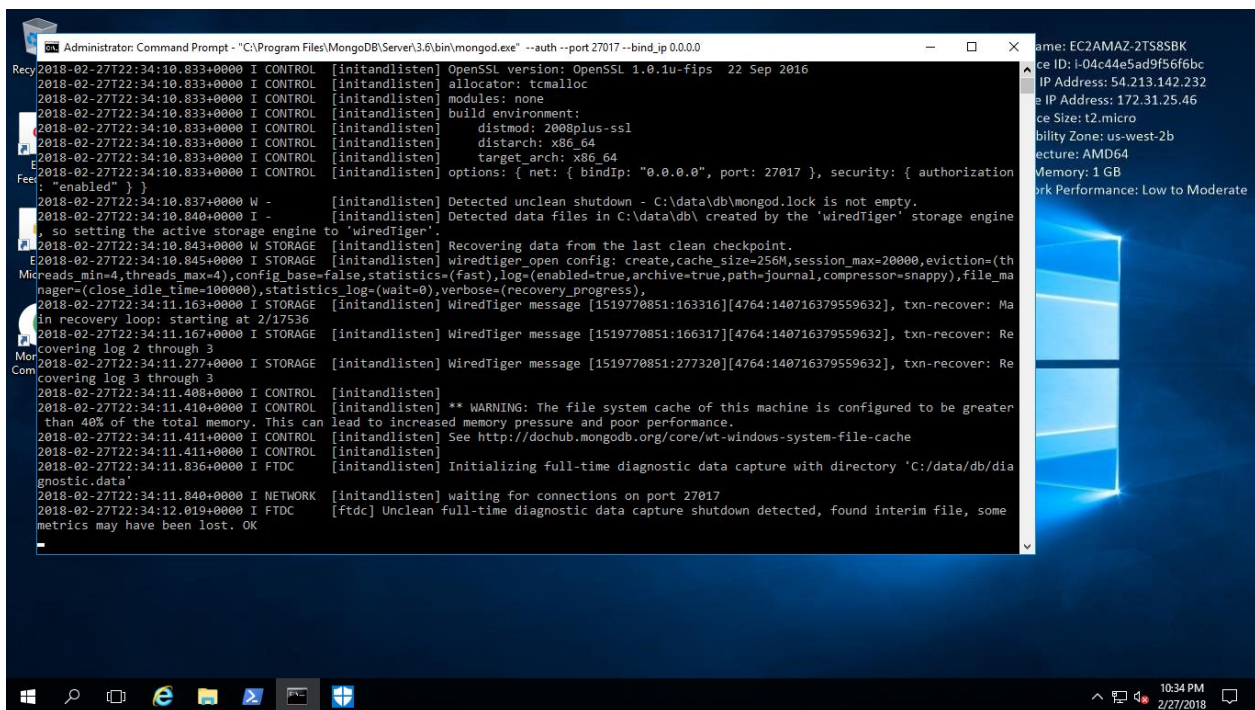
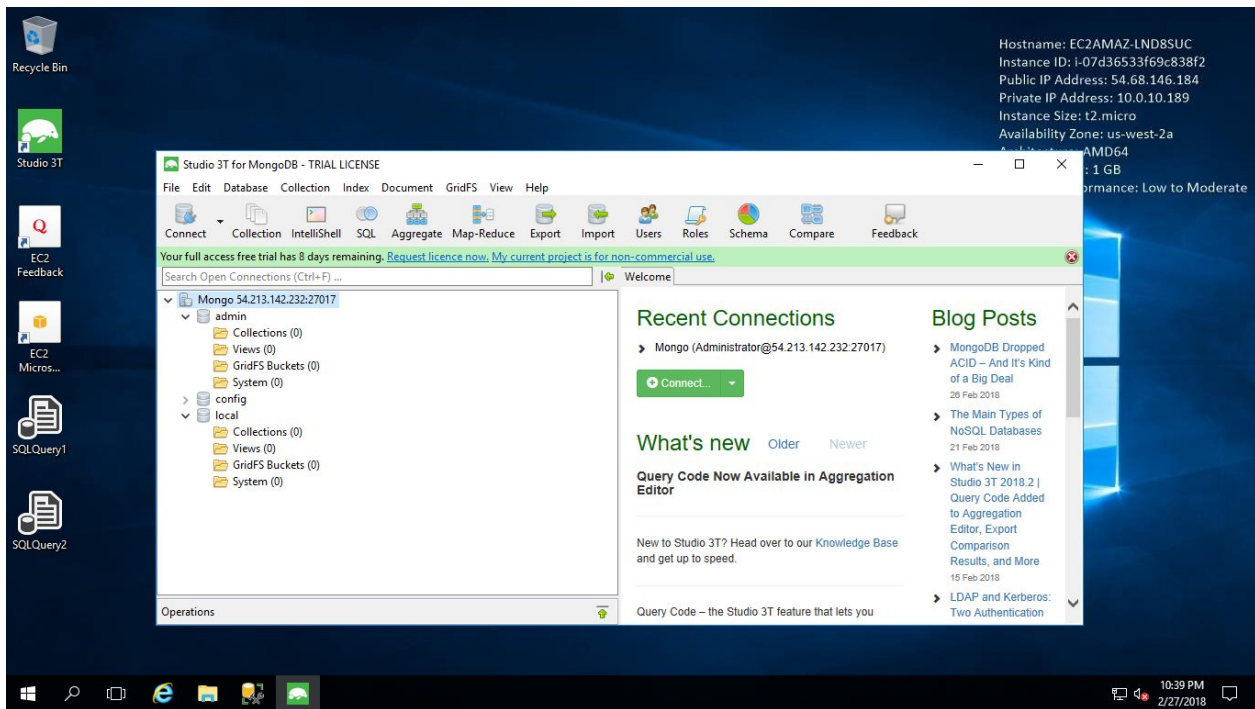


Figure: Running service

I Remoted to my MongoDB instance, and if mongod is running, stopped it.



Using Notepad, I created a configuration file, i.e. a text file with the following content (replace the parts in red with the proper values for your deployment):

```

File Edit Format View Help
mongodb.log - Notepad
2018-02-27T22:52:15.318+0000 I CONTROL [main] Trying to start Windows service 'MongoDB'
2018-02-27T22:52:15.320+0000 I CONTROL [initandlisten] MongoDB starting : pid=4248 port=27017 dbpath=C:\data\db\ 64-bit host=EC2AMAZ-2TS85BK
2018-02-27T22:52:15.320+0000 I CONTROL [initandlisten] targetMinOS: Windows 7/Windows Server 2008 R2
2018-02-27T22:52:15.320+0000 I CONTROL [initandlisten] db version v3.6.2
2018-02-27T22:52:15.320+0000 I CONTROL [initandlisten] git version: 489d177db0f0420a8ca04d39fd78d0a2c539420
2018-02-27T22:52:15.320+0000 I CONTROL [initandlisten] OpenSSL version: OpenSSL 1.0.1u-fips 22 Sep 2016
2018-02-27T22:52:15.320+0000 I CONTROL [initandlisten] allocator: tcmalloc
2018-02-27T22:52:15.321+0000 I CONTROL [initandlisten] modules: none
2018-02-27T22:52:15.321+0000 I CONTROL [initandlisten] build environment:
2018-02-27T22:52:15.321+0000 I CONTROL [initandlisten] distmod: 2008plus-ssl
2018-02-27T22:52:15.321+0000 I CONTROL [initandlisten] distarch: x86_64
2018-02-27T22:52:15.321+0000 I CONTROL [initandlisten] target_arch: x86_64
2018-02-27T22:52:15.322+0000 I - [initandlisten] options: { config: "C:\MongoDB\mongod.cfg", net: { bindIp: "0.0.0.0", port: 27017 }, security: { authorizati
2018-02-27T22:52:15.322+0000 I - [initandlisten] Detected data files in C:\data\db\ created by the 'wiredTiger' storage engine, so setting the active storage
2018-02-27T22:52:15.626+0000 I STORAGE [initandlisten] wiredtiger_open config: create,cache_size=256M,session_max=20000,eviction=(threads_min=4,threads_max=4),conf
2018-02-27T22:52:15.796+0000 I STORAGE [initandlisten] WiredTiger message [1519771935:625365][4248:140716379559632], txn-recover: Main recovery loop: starting at :
2018-02-27T22:52:15.899+0000 I STORAGE [initandlisten] WiredTiger message [1519771935:796324][4248:140716379559632], txn-recover: Recovering log 3 through 4
2018-02-27T22:52:15.899+0000 I STORAGE [initandlisten] WiredTiger message [1519771935:890329][4248:140716379559632], txn-recover: Recovering log 4 through 4
2018-02-27T22:52:16.049+0000 I CONTROL [initandlisten] ** WARNING: The file system cache of this machine is configured to be greater than 40% of the total memory.
2018-02-27T22:52:16.051+0000 I CONTROL [initandlisten] See http://dochub.mongodb.org/core/wt-windows-system-file-cache
2018-02-27T22:52:16.051+0000 I CONTROL [initandlisten]
2018-02-27T22:52:16.051+0000 I CONTROL [initandlisten] Initializing full-time diagnostic data capture with directory 'C:\data\db\diagnostic.data'
2018-02-27T22:52:16.676+0000 I NETWORK [initandlisten] waiting for connections on port 27017
2018-02-27T22:52:16.685+0000 I STORAGE [initandlisten] Service running
2018-02-27T22:52:16.685+0000 I NETWORK [listener] connection accepted from 54.68.146.184:49801 #1 (1 connection now open)
2018-02-27T22:52:21.657+0000 I NETWORK [conn1] received client metadata from 54.68.146.184:49801 conn: { driver: { name: "mongo-java-driver", version: "018.1.0-FI
2018-02-27T22:52:21.700+0000 I ACCESS [conn1] Successfully authenticated as principal Administrator on admin

```

systemLog:

destination: file

path: <path of you db log file or the default c:\data\logs\ mongod.log>

storage:

dbPath: <path of you db data file or the default c:\data\db>

net:

port: <port you want the server to listen for client connections or the default 27017>

bindIp: <private IP of your instance or 0.0.0.0>

security:

authorization: enabled

The format of the configuration file is called YAML and it is a very popular format. YAML doesn't accept tabs so if you type the above content manually, make sure you don't use any tabs for indentation, just spaces.

I saved the configuration file somewhere on the c: drive. For example, c:\MongoDB\mongod.cfg

Open a command prompt as Administrator, and run the following command to create the Windows Service:

```
"C:\Program Files\MongoDB\Server\3.6\bin\mongod.exe" --config "C:\MongoDB\mongod.cfg"
--install
```

I ran this command.

In Windows Administrative Tools, click on Services, and in the list of Services, find the one that is called "MongoDB". Make sure it's in running state and configured to start automatically on system start up.

Added and made it run, screenshot below.

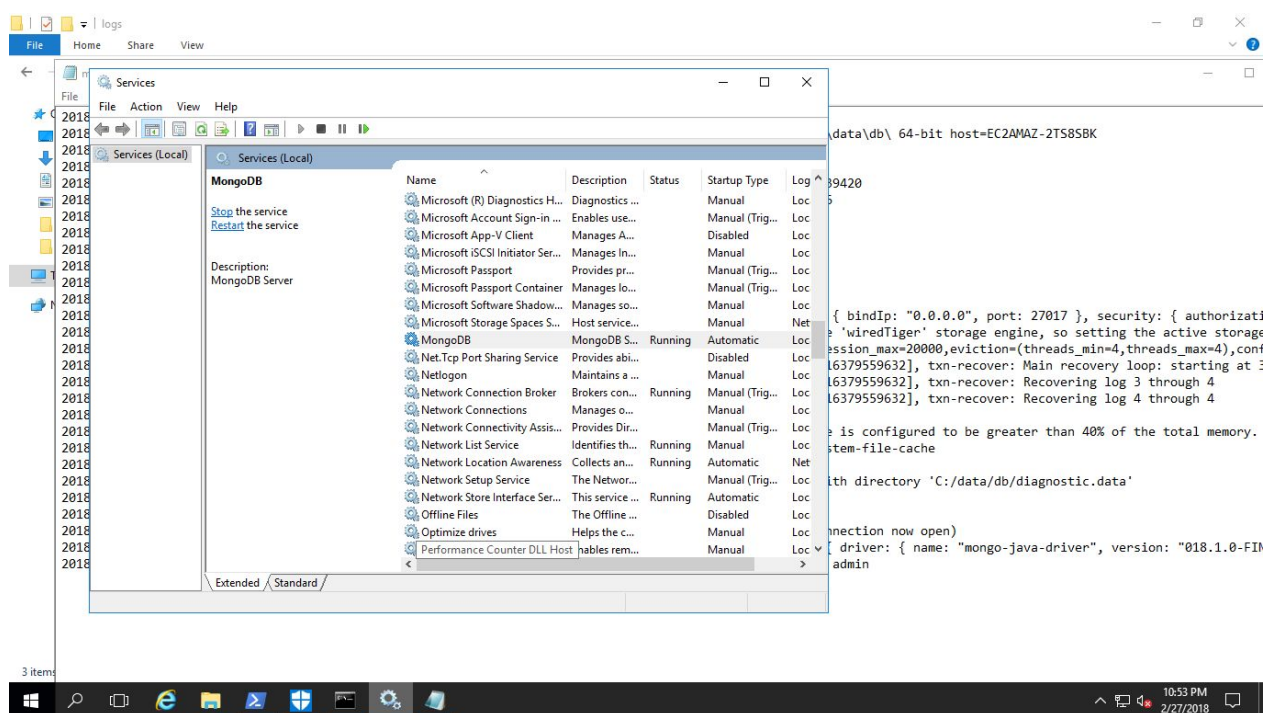


Figure: Adding the MongoDB in services for auto start

We were required to use Windows administration skills (e.g. Windows Services). I used it to while running CMD and also adding the mongo to services.

Pasted logs of the system after restarting and making sure that the services we added is working..

Reference::

<https://docs.mongodb.com/manual/tutorial/install-mongodb-on-windows/#configure-a-windows-service-for-mongodb-community-edition>