Orientation

This document includes Orientation assignments, as well as other setup information.

Sign up for MDB Atlas free-tier

While you are following their instructions, please, please, write down your Atlas username and password and your cluster username and password and save them somewhere easy to find.

https://www.mongodb.com/cloud/atlas?jmp=docs

Below is a link from a Coursera course, using MongoDB 3.4. But the setup is almost identical, and they explain the process well.

https://www.coursera.org/lecture/introduction-mongodb/creating-an-atlas-free-tier-cluster-j8JVe

The video shows a Security TAB next to the clusters tab.

Instead, click on Security in the left menu bar-->Network-->IP WhiteList

Video: 1-MDB-Atlas-Cluster

Install MongoDB on Windows (so that we can use the Mongo shell)

Note: The newest version of MongoDB as of this writing is 4.0

However, the Atals Free-Tier is still providing you with a 3.6x instance.

If you want to make sure that your local version is fully compatible:

https://www.mongodb.com/download-center/enterprise/releases/archive

HOWEVER, I think that for what we're doing, you can install 4.0

I tested everything with 4.0 and it worked fine.

Create a folder for databases in the default location:

c:\data\db

$ sudo mkdir -p /data/db

Because MongoDB Compass (a graphical query and schema interface)

does not support everything in mongo, so we'll install mongo locally

and then we can also use the command line in mongo, e.g., for import and other things.

https://www.mongodb.com/download-center#enterprise

Why the Enterprise version? Because we want to use Compass too.

There are free alternatives for that. OR you can use a VM for this part.

For Windows--MSI

C:\Program Files\MongoDB\Server\4.0\bin

add this to the path. Close and reopen terminal

Take a screen shot of the following:

In terminal/cmd window:

Mongod –version (it should respond with the version)

mongo --nodb

(it should respond with the version and also open the mongo shell, giving you a ">" cursor)

quit()

For the mac: download center-->Enterprise server tab.

https://docs.mongodb.com/manual/tutorial/install-mongodb-enterprise-on-os-x/

you will download a tgz file, which you can unpack.

Good idea to put it into your home directory.

Mongo is located in the bin folder

update path environment variable in a hidden file name .bash_profile

(In sublimeText, you can see hidden files using CMD-SHIFT-dot

navigate to home directory, and you can see the .bash_profile

if you don't see one, create it, create a new file, save it as .bash_profile

Be sure to save it in your home directory!!

You can add a line "export PS1='$ ' this simply sets the cursor

export PATH="~/*your mongo path* /bin:$PATH"

Course Environment:

Assume that Anaconda is already installed. Anaconda

Optionally, set up a new environment for the Mongo part of the course. (I am not.)

environment (so as far as I'm concerned, this is optional)

From inside Anaconda (or inside your specific environment within Anaconda):

jupyter notebook or, on windows: Start-->Anaconda-->Jupyter

(runs on localhost:8888) **db**

From inside Anaconda (or inside your specific environment within Anaconda):

`pip install pymongo dnspython` (should work for the mac too)

Support for mongodb+srv:// URIs requires dnspython:

http://api.mongodb.com/python/current/installation.html

if it doesn't work for the mac, try looking at this, but I think things should run okay.

https://support.opendns.com/hc/en-us/articles/227987667-Installing-and-Using-dnspython-clientsubnetoption

This is the end of orientation assignments for Mongo. Below is additional to complete before lab 1

I have included the following in the same document as the Orientation; however, they should be completed before Lab 1.

Load data into MongoDB:

download file movies put into intro-to-mongodb folder

import: using mongoimport command Video: 2-MDB-Import-Movies_Initial

do this from the regular terminal, NOT from the mongo shell

Go to MongoAtlas, sign in. Click on clusters, and select your mflix database

Click on the "…", command-line tools, and copy the template-statement

You may want to copy this into Word or similar, and substitute your values.

I used the name of the cluster (mflix) and the Database name.

I added --headline and --ssl

The movies.initial file is in the MongoDB-Lectures-Labs.zip file that you were instructed to download.

There is a link on the syllabus, just before this module of the course. It is repeated here.

Using Compass:

Like PHPMyAdmin, it's a locally-installed GUI tool that allows you to connect to a DB.

Examine, update, delete and query.

Download from

https://www.mongodb.com/download-center#compass Video: 3-Install-Compass

Install Compass But not the whole video right now.

Go to Atlas-->cluster-->Connect-->Connect your application

Copy that string, as shown in the video

Back in Compass, it should detect the connection string. Accept that. Enter pwd.