

Setting up MongoDB

Windows:

Download

Go to <https://www.mongodb.com/try/download/community> to download the MongoDB community server for Windows or use the following link:

https://fastdl.mongodb.org/windows/mongodb-windows-x86_64-5.0.6-signed.msi

Run the installer

At one point you will be prompted for what type of install you want. Click on 'Complete'. Otherwise you can go through with default settings and click ok for any confirmations. Once done click 'yes' to restart.

Your mongo server is set up to autorun as a windows service, much like mysql. You may want to set an environment variable to make running the shell easier. At the command prompt, type **mongo** (or the complete path to it if you didn't set a path variable) to run the mongo shell and auto connect to the mongo server.

Next you need to download DB Tools from

<https://www.mongodb.com/try/download/database-tools>.

Unzip the files from this and copy them to your mongodb bin directory. This should be

C:\Program Files\MongoDB\Server\4.4\bin

Go to this folder in explorer and there should be a file called 'InstallCompass'. Double click it to run the installer for the Compass application. Click through all defaults for this.

To load sample data, exit the shell to just the windows command prompt.

Copy the files from the CDBM handouts directory: Mongo/video

At the command prompt, use the command

```
mongorestore -d <db name> <path to video directory>
```

I called my db 'movie' and copied the video directory to the root of C:\ so my command was:

```
mongorestore -d movie C:\video
```

You should now be completely set up.

MacOS:

The easiest install by far is with HomeBrew. HomeBrew is a Mac OS package manager. You can install it from the terminal with

```
/bin/bash -c "$(curl -fsSL  
https://raw.githubusercontent.com/Homebrew/install/HEAD/install.sh)"
```

If you are using HomeBrew, you can install from terminal using:

1. install XCode command line tools with:

```
xcode-select -install
```

2. Use the following two commands in order to run the install:

```
brew tap mongodb/brew  
brew install mongodb-community@5.0
```

3. This will set up basics. To run MongoDB as a MacOS service, use:

```
brew services start mongodb-community@5.0
```

to stop this, use:

```
brew services stop mongodb-community@5.0
```

You should now have a mongo instance running and can now simply run **mongo** from the terminal to run the mongo client and connect. Note that you have to open a second terminal window to do this.

Skip down to importing sample data.

To install manually, go to <https://www.mongodb.com/try/download/community> to download the MongoDB community server for Mac or use the following link:

https://fastdl.mongodb.org/osx/mongodb-macos-x86_64-5.0.6.tgz

This downloads a tgz file which you will have to unzip. The resulting folder can be copied anywhere you like. I copied mine to my user folder and renamed it to just 'mongodb' so the path to its bin is ~/mongodb/bin

NOTE: some required pieces are separate. HomeBrew includes them. The manual install doesn't. They are available at <https://www.mongodb.com/try/download/database-tools> as "MongoDB Database Tools".

This downloads a zip file. Once unzipped, find the bin directory and copy all of its contents to the bin directory where you unzipped the main mongodb files. In my case it was ~/mongodb/bin

This will put all of the files you need into the same bin directory.

Now that all files are downloaded and in place, we can get everything set up:

- copy the binary files to a directory in your path such as /usr/local/bin

```
sudo cp /path/to/the/mongodb-directory/bin/* /usr/local/bin/
```

```
for me this was sudo cp ~/mongodb/bin/* /usr/local/bin/
```

****you'll be prompted for your password for this**

****mac terminal will now know where everything is so you dont need the full path to run anything**

- create a data directory

on Catalina+, this is `sudo mkdir -p /usr/local/var/mongodb`
on previous, its `sudo mkdir -p /data/db`

- create a log directory

`sudo mkdir -p /usr/local/var/log/mongodb`

- set permissions on the data directory:

`sudo chown <my_username> /usr/local/var/mongodb`

- run the mongo server

`mongod --dbpath /usr/local/var/mongodb`

on previous to Catalina, you should be able to just run `mongod`

You now need to open a second terminal window. The above opens the mongo server but in this second window, we'll run the mongo client. You should be able to just type the command ***mongo*** and get an automatic connection. (MacOS might complain about it and require you to allow it in Security & Privacy).

Next, install MongoDB Compass. In the original bin directory is a file called `install_compass...` double-click it to run the installer for the Compass application. MacOS will likely complain that it can't run and you will have to go to Security & Privacy to allow it.

Importing Sample Data

Finally, you can import sample data. Copy the files from the CDBM handouts directory:
`/Mongo/video`

I copied the video directory to my user root.

At the terminal prompt, use the command `mongorestore -d <db name> <path to video directory>`

I called my db 'movie' so my command was:

`mongorestore -d movie ~/video`

If you manually started the server, you can stop it using `Control-c`