Installing - Mac

In some cases, database servers and web servers are decoupled. This will be the case with MERN stack applications. So once we install MongoDB, we will have to learn how to boot up a server and then connect to it.

If you don't have Homebrew, get it. Homebrew is a package manager/install tool and the reason why installing things on Macs takes literally no time at all. Get Homebrew **here**. Your life is now complete. Now we can run the following commands:

```
xcode-select --install
```

The above code may say 45 minute install time however, it will likely take no more than 10 minutes. After it's complete, we can run:

```
brew tap mongodb/brew
```

```
brew install mongodb-community@6.0
```

Running the MongoDB server:

To run MongoDB (i.e. the mongod process) as a macOS service, issue the following:

```
brew services start mongodb-community@6.0
```

That's it. If that was successful, the terminal should fill with a bunch of information and you should not be able to see your normal terminal prompt line, only a blinking underscore. This means your server is up and running. What we have done is to run our database server and thereby open our MongoDB databases up for connections so we can query the DB and do CRUD (Create, Read, Update, Delete) operations.

Connect to your database:

To connect to your MongoDB databases, in a NEW terminal (after installing, you must open a new terminal), type...

```
mongosh
```

Now you should see the terminal cursor become a single arrow and blinking underscore. We're in!

if you are getting error running **mongo** try using **mongosh**

Connect to your database using (MongoDB Compass):

Compass provides you with graphical user interface (GUI) to make it easier to interact with the db. You can get it from here.

Stopping the MongoDB server:

To stop mongod running as a macOS service, use the following command as needed:

```
brew services stop mongodb-community@6.0
```

NOTES:

If you get a banner message telling you to "Enable MongoDB's free cloud-based monitoring service"

You can ignore this. It is intended for production environments and not individual programmer's computers.

If MACOS prevents mongo from opening:

macOS may prevent the mongo shell from running after installation. If you receive a security error when starting the mongo shell indicating that the developer could not be identified or verified, do the following to grant the mongo shell access to run:

- Open System Preferences
- Select the Security and Privacy pane
- Under the General tab, click the button to the right of the message about the mongo shell, labelled either Open Anyway or Allow Anyway depending on your version of macOS.

Shutting down if your mongod window got closed:

This is harder. Open a terminal window and type:

```
ps -ax | grep mongosh
```

then copy the number on the left of the row that shows '*sudo mongo*' (or if that's not there, just '*mongo*') This is the process ID of the *mongod* command you ran. Take that number and type

```
sudo kill *that_number*
```

And you'll be good. The kill command tells a process ID to terminate. Intense terminal stuff, huh?