

# How to install IDE For MongoDB

Download MongoDB compass from the below link and install as mentioned in it

- [Install MongoDB Compass](#)

MongoDB databases, collections and it's data can be viewed in a better way using Compass (or)

Using brew :

```
brew install --cask mongodb-compass
```

# How to install mongodb on macOS

## Without Homebrew

Check out this medium blog :

- <https://medium.com/nerd-for-tech/how-to-install-mongodb-on-macos-big-sur-d6df6ac69618>

You can either follow the above link or the steps I have written below

- Download the mongodb image from this [link](#). You can download any version that you wish to install.
- Lets take **mongodb-macos-x86\_64-4.4.4.tgz** for reference
- Copy or move the **mongodb-macos-x86\_64-4.4.4.tgz** from your Downloads folder to cd ~/Desktop
- Extract mongodb from the archive

```
cd ~/ && tar zxvf mongodb-macos-x86_64-4.4.4.tgz
```

- Now move the files into a new folder with a readable name

```
mv mongodb-macos-x86_64-4.4.4 mongodb
```

Now you could notice a folder cd ~/mongodb is created with the extracted files

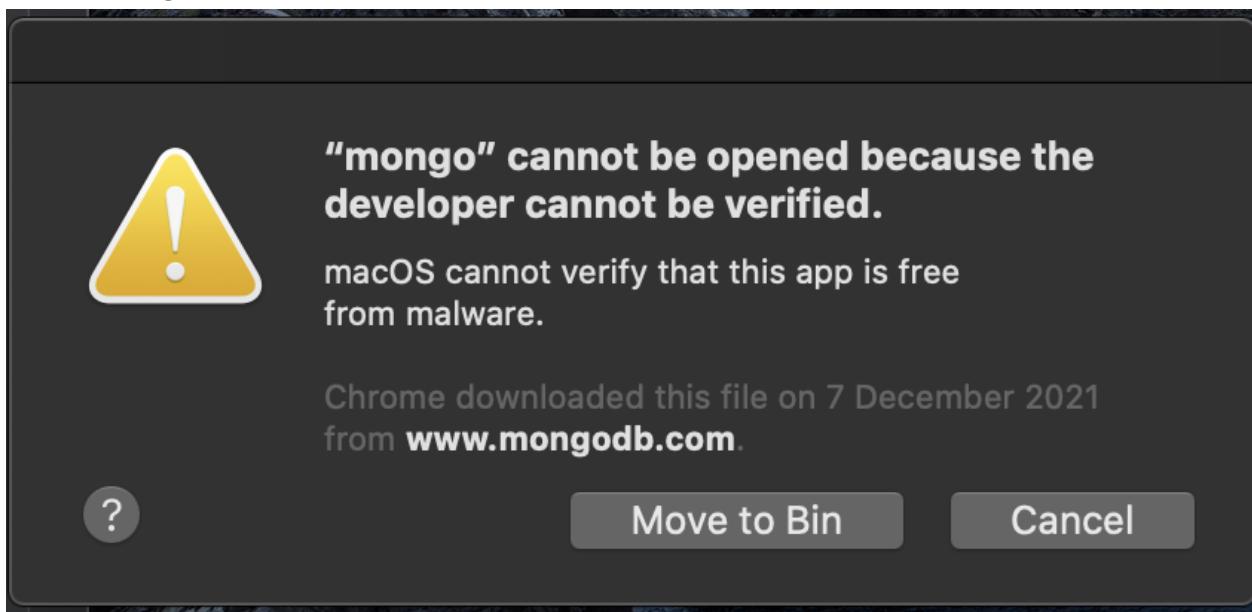
- cd mongodb/
- mkdir data/
- mkdir db/
- So mongodb stores data in the **/data/db** folder.

- Create aliases for mongod and mongo. Copy and add the below lines in your `~/.bashrc` or `~/.bash_profile`
  - `alias mongod='~/mongodb/bin/mongod --dbpath ~/mongodb/data/db'`
  - `alias mongo='~/mongodb/bin/mongo'`
- Restart the terminal or run `source ~/.bash_profile` to make mongod and mongo commands to work
- Now type **mongo** in the terminal. You should find the logs as mentioned in the screenshot below. You can find the installed mongo version as marked in the screenshot

```
beopathyvelmurgan@ip-192-168-1-4 ~ % mongo
MongoDB shell version v5.0.4
connecting to: mongodb://127.0.0.1:27017/?compressors=disabled&gssapiServiceName=mongodb
Implicit session: session { "id" : UUID("40e8f379-9fa0-4802-a811-fde0205a37d3") }
MongoDB server version: 3.6.23
WARNING: shell and server versions do not match
=====
Warning: the "mongo" shell has been superseded by "mongosh",
which delivers improved usability and compatibility. The "mongo" shell has been deprecated and will be removed in
an upcoming release.
For installation instructions, see
https://docs.mongodb.com/mongodb-shell/install/
=====
The server generated these startup warnings when booting:
2022-03-01T09:43:26.755+0530 I CONTROL [initandlisten]
2022-03-01T09:43:26.755+0530 I CONTROL [initandlisten] ** WARNING: Access control is not enabled for the database.
2022-03-01T09:43:26.755+0530 I CONTROL [initandlisten] ** Read and write access to data and configuration i
s unrestricted.
2022-03-01T09:43:26.755+0530 I CONTROL [initandlisten]
2022-03-01T09:43:26.755+0530 I CONTROL [initandlisten]
2022-03-01T09:43:26.755+0530 I CONTROL [initandlisten] ** WARNING: soft rlimits too low. Number of files is 256, sh
ould be at least 1000
---
>
>
> █
```

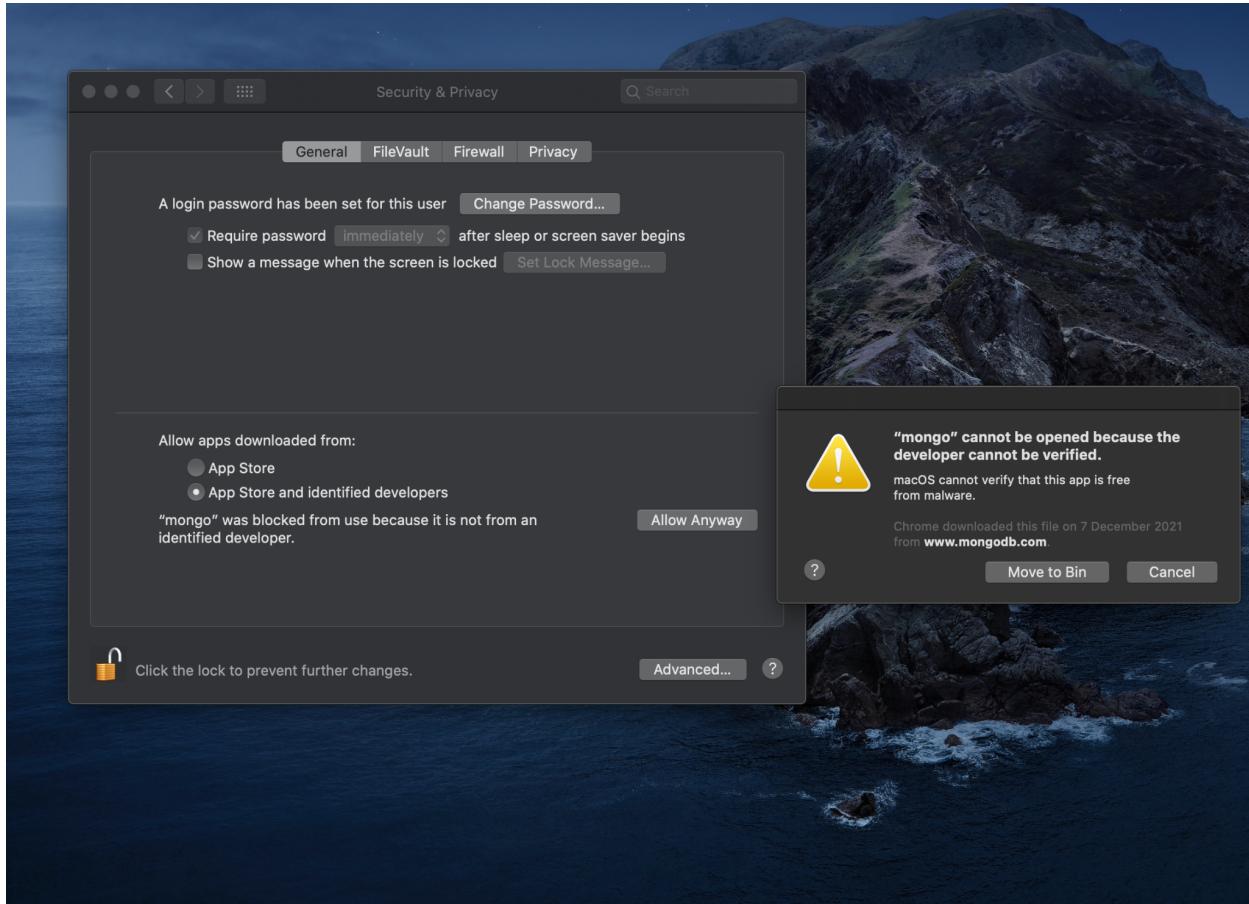
### Problems & Fixes :

- Few might get a popup like the below screenshot, for the first time when you run a **mongo** command

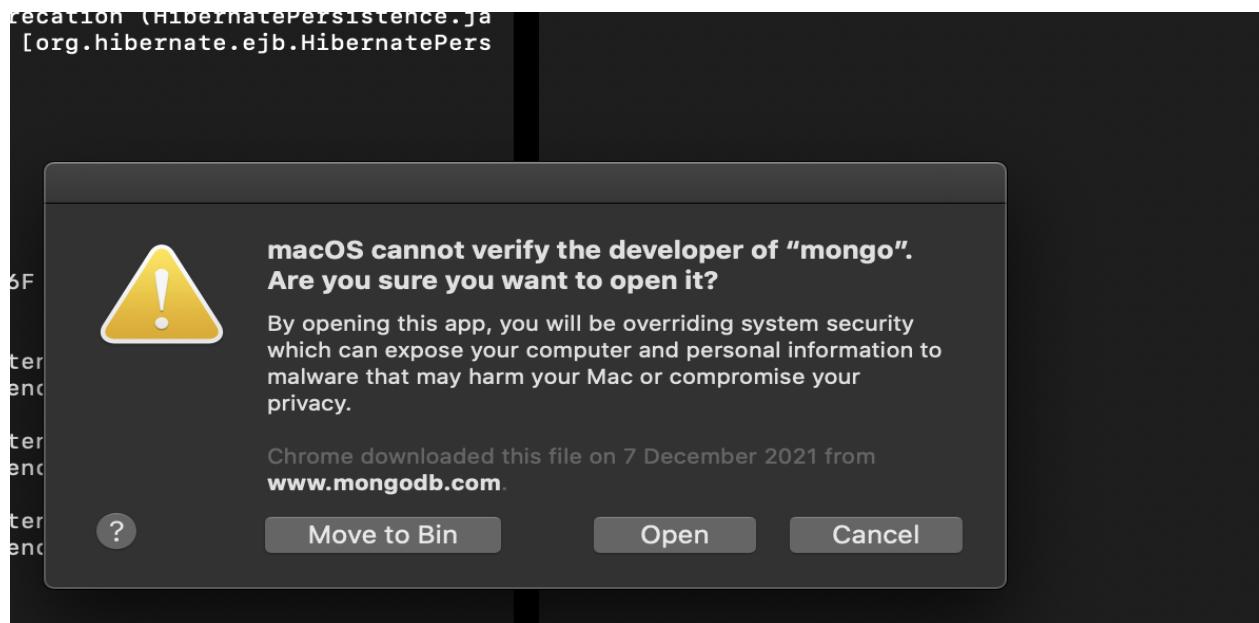


To fix this,

- Open System preferences > Security & Privacy > General.
- Unlock it by providing the password and then click **cancel** from the above screenshot.
- Now you could see **Allow Anyway** in the general tab. Click it.



- Once you are done with the above steps, run the **mongo** command again. The below pop up will be displayed. Now click **open**. You can find that the mongo is connected



Using Homebrew :

- [Install MongoDB using Homebrew](#)

## How to shard mongo databases and collections using docker

GitHub :

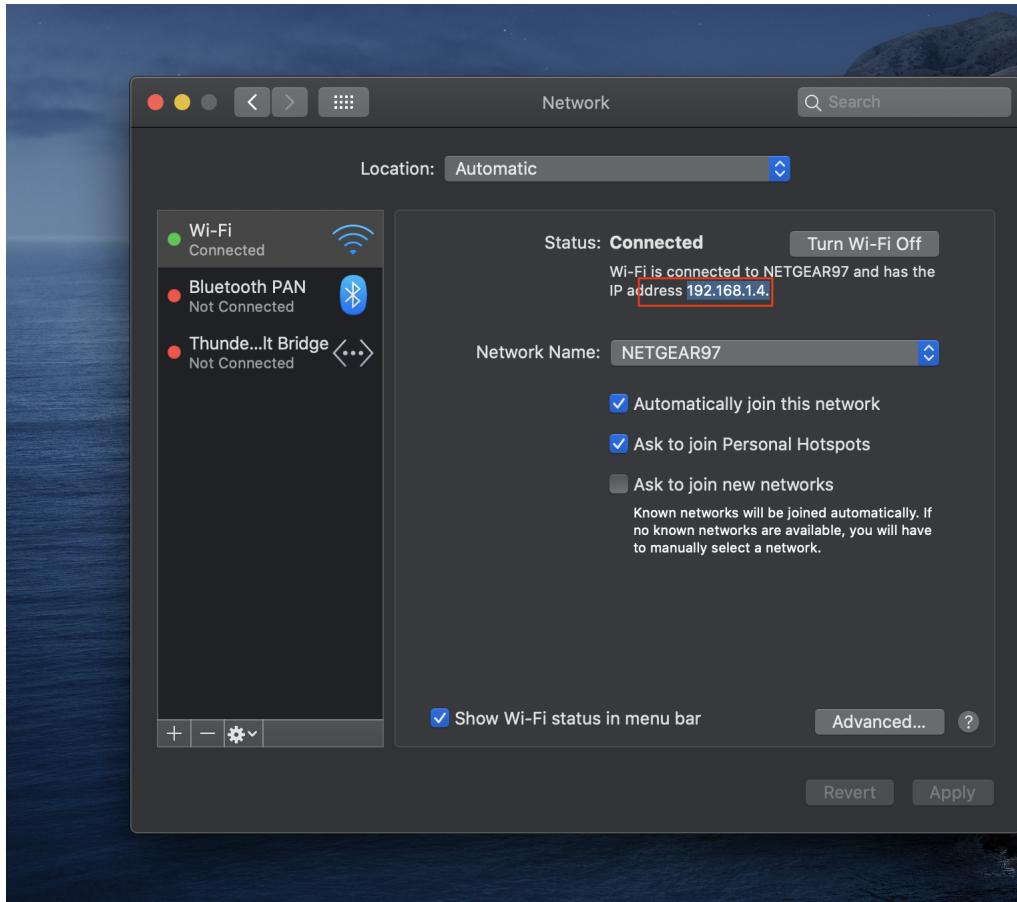
- Clone the project from this link :  
<https://github.com/justmeandopensource/learn-mongodb/tree/master/sharding>
- Clone Command :  
`git clone https://github.com/justmeandopensource/learn-mongodb.git`
- Read this [github readme document](#) to set up sharding in your local machine

### NOTE :

You can notice the IP **192.168.1.81** in most of the docker yml files.

Replace it with your private IP-Address before proceeding with the steps.

- Open **System preferences > Network** and You can find your private ip-address as mentioned in the below screenshot



Those who want to check the youtube tutorials, the below links would be super helpful

### Youtube tutorials :

- [Set up sharding in the Mongodb using Docker containers](#)
- [Adding a shard to existing sharded cluster](#)
- [How to shard the collection](#)

### MongoDB Dataset:

- <https://github.com/neelabalan/mongodb-sample-dataset>