

A Mongo DB docker guide

Step 1 Download a docker image

```
docker pull mongodb/mongodb-community-server
```

```
kevinli@gpulx:~/git/localhost$ docker pull mongodb/mongodb-community-server
Using default tag: latest
latest: Pulling from mongodb/mongodb-community-server
7e49dc6156b0: Pull complete
8060e3fe501e: Pull complete
7fd6bfb6e797: Pull complete
1c0e3bc8af08: Pull complete
e882f5f60bda: Pull complete
b5d52a83648e: Pull complete
e045ff942c97: Extracting 25.62MB/290.3MB
d61280b558e5: Download complete
b9ff7a4aead7: Download complete
4f4fb700ef54: Download complete
2124582c0942: Download complete

```

Step 2 Running this mongodb docker image

```
docker run --name mongodb -p 27017:27017 -d mongodb/mongodb-community-server:latest
```

```
kevinli@gpulx:~/git/localhost$ docker run --name mongodb -p 27017:27017 -d mongodb/mongodb-community-server:latest
5bcd3b37f082bb4806e01995a1ec4b8a954b96fb3de2b42abe0fd8a0746ef12c
```

See the container/linux os is running inside,

```
kevinli@gpulx:~/git/localhost$ docker container ls
CONTAINER ID   IMAGE                               COMMAND
CREATED        ST
ATUS          PORTS                             NAMES
5bcd3b37f082   mongodb/mongodb-community-server:latest   "python3
/usr/local/..." 52 seconds ago   Up
50 seconds     0.0.0.0:27017->27017/tcp, [::]:27017->27017/tcp   mongodb
```

Step 3 Connect to mongo db

In order to use `mongosh` it seems that I need to install the full build of mongodb in my Ubuntu 24, which I would like to avoid it as I do not want to install anything.

Once you had this mongosh installed, you can connect to your mongo server inside of your linux docker container via the following commands,

```
kevinli@gpulx:~/git/localhost$ mongosh --host localhost --port 27017
mongosh: command not found
```

>Note: Please make sure you take the above port correctly so that you can connect to it. You do not need an IPv4, you just need a `localhost`. Remember when run the container,

```
kevinli@gpulx:~/git/localhost$ docker run --name mongodb -p 27017:27017 -d
mongodb/mongodb-community-
server:latest
5bcd3b37f082bb4806e01995a1ec4b8a954b96fb3de2b42abe0fd8a0746ef12c
```

The hash is the container id,

```
5bcd3b37f082bb4806e01995a1ec4b8a954b96fb3de2b42abe0fd8a0746ef12c
```

And I use the following command to enter this container,

```
kevinli@gpulx:~/git/localhost$ docker exec -it
5bcd3b37f082bb4806e01995a1ec4b8a954b96fb3de2b42abe0fd8
a0746ef12c /bin/bash
mongodb@5bcd3b37f082:$
```

When I say enter the container, it is like ssh to the container,

```
mongodb@5bcd3b37f082:/$ ps axuw|grep mongo
mongodb      1  0.0  0.0  19556 14888 ?          Ss   18:31   0:00 python3
/usr/local/bin/docker-entr
y-point.py mongod
mongodb      8  1.1  0.3 3769224 214804 ?          Sl   18:31   0:18 mongod --
bind_ip_all
mongodb     61  0.0  0.0    4628   3816 pts/0    Ss   18:46   0:00 /bin/bash
mongodb     69  0.0  0.0    7064   3116 pts/0    R+   18:57   0:00 ps axuw
mongodb     70  0.0  0.0    3472   1896 pts/0    S+   18:57   0:00 grep mongo
```

The mongod is the daemon process (a process/server process running in the background, and normally they have higher OS job priorities).

Step 4 Import to db (skips)

```
mongodb@5bcd3b37f082:/$ mongosh
Current Mongosh Log ID: 692207b69448e2f3c19dc29c
Connecting to:          mongodb://127.0.0.1:27017/?directConnection=true&serverSelectionTimeoutMS=200
0&appName=mongosh+2.5.9
Using MongoDB:          8.2.2
Using Mongosh:          2.5.9

For mongosh info see: https://www.mongodb.com/docs/mongodb-shell/

To help improve our products, anonymous usage data is collected and sent to MongoDB periodically (https://www.mongodb.com/legal/privacy-policy).
You can opt-out by running the disableTelemetry() command.

-----
The server generated these startup warnings when booting
2025-11-22T18:31:46.550+00:00: Using the XFS filesystem is strongly recommended with the WiredTiger storage engine. See http://dochub.mongodb.org/core/prodnotes-filesystem
2025-11-22T18:31:47.396+00:00: Access control is not enabled for the database. Read and write access to data and configuration is unrestricted
2025-11-22T18:31:47.396+00:00: For customers running the current memory allocator, we suggest changing the contents of the following sysfsFile
2025-11-22T18:31:47.396+00:00: For customers running the current memory allocator, we suggest changing the contents of the following sysfsFile
2025-11-22T18:31:47.396+00:00: We suggest setting the contents of sysfsFile to 0.
2025-11-22T18:31:47.397+00:00: We suggest setting swappiness to 0 or 1, as swapping can cause performance problems.
-----
test> exit
mongodb@5bcd3b37f082:/$ █
```

```
mongodb@5bcd3b37f082:/$ which mongosh
/usr/bin/mongosh
```

From here you can google for documentation to import csv or json file using the mongosh and you can go from there.

Ref

For more linux and Mac terminal tutorials,

The screenshot shows a browser window with the URL kevinli-webbertech.github.io/blog.html. The left sidebar contains a navigation menu with sections like 'Courses' (Database Systems, Database Systems II, Advanced Database, Big Data, Data Visualization, Computer Architecture, Computer Forensic, Java Data Structures, Python Data Structures, Javascript, ReactJS, NextJS Framework, Kotlin, Linux Administration), 'DevOps' (Syllabus, Linux Administration, Docker, Podman, Jenkins, Github), and 'Linux Administration' (Linux Shell, Linux Scripting, Linux Filesystem, Linux Account, Linux Profiles, Linux Devices, Linux Permissions, Linux Storage, Linux Network, Packages and Software, GCC, GDB, Id, Other Debugging Util, labs). The main content area is titled 'markdown viewer'. It displays a blog post about troubleshooting Docker on Apple M1 chips. The post includes code snippets and instructions for installing Colima using Homebrew. On the right, there's a configuration panel for the markdown viewer with tabs for MARKDOWN, DEFAULT, THEME, COMPILER, CONTENT, GITHUB, AUTO, and ADVANCED OPTION.

Or there is a more detailed linux administration course.

This screenshot is similar to the previous one, showing the same blog page and sidebar menu. However, the main content area is now titled 'markdown viewer' and displays a different blog post about troubleshooting Docker on Apple M1 chips. The post content and configuration panel are identical to the first screenshot.

Also under the References section, I have another linux ref,

A screenshot of a website sidebar. At the top, there's a horizontal line of links: Python Data Structures, Javascript, ReactJS, NextJS Framework, Kotlin, Linux Administration, DevOps, Deep Learning, Springboot, and Spreadsheet. Below this is a section titled "References" with a downward arrow. Under "References", there are two main categories: "Language" and "Linux". The "Language" category has one item: "Scikit-Learn". The "Linux" category has several items: Linux Commands, Linux Distro, Linux Window Desktop, Linux Filesystem, Linux Firewall, Linux Shell, Linux Tools, Git, vim, nano, and ubuntu. At the bottom of the sidebar is another horizontal line of links: Courses Recording.

- ▶ Python Data Structures
- ▶ Javascript
- ▶ ReactJS
- ▶ NextJS Framework
- ▶ Kotlin
- ▶ Linux Administration
- ▶ DevOps
- ▶ Deep Learning
- ▶ Springboot
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 - [vim](#)
 - [nano](#)
 - [ubuntu](#)
 - ▶ Scikit-Learn
 - ▶ Keras

 - ▶ Courses Recording

A screenshot of a browser window titled "Canvas - Mont...". The page content is as follows:

#Troubleshooting for docker running in Apple M*

The target audiences of this article are Mac M* C issues with docker. Please follow the steps below

1/ Install colima using homebrew,
kevins-Laptop:~ kevinli\$ which colima /opt/homebrew/bin/colima

2/ Run Colima to emulate it is x64 architecture
I had a script called [Colima.sh](#) in my ~/ directory,

```
#!/bin/bash
colima start --arch x86_64 --memory 4
```

or you just copy the line `colima start --arch x86_64` and run it in terminal

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