

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
b9ff7a4ae7: 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 you 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
ypoint.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 backgroup, 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=2000&appName=mongosh+2.5.9
Using MongoDB:      8.2.2
Using Mongosh:      2.5.9

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

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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.
-----

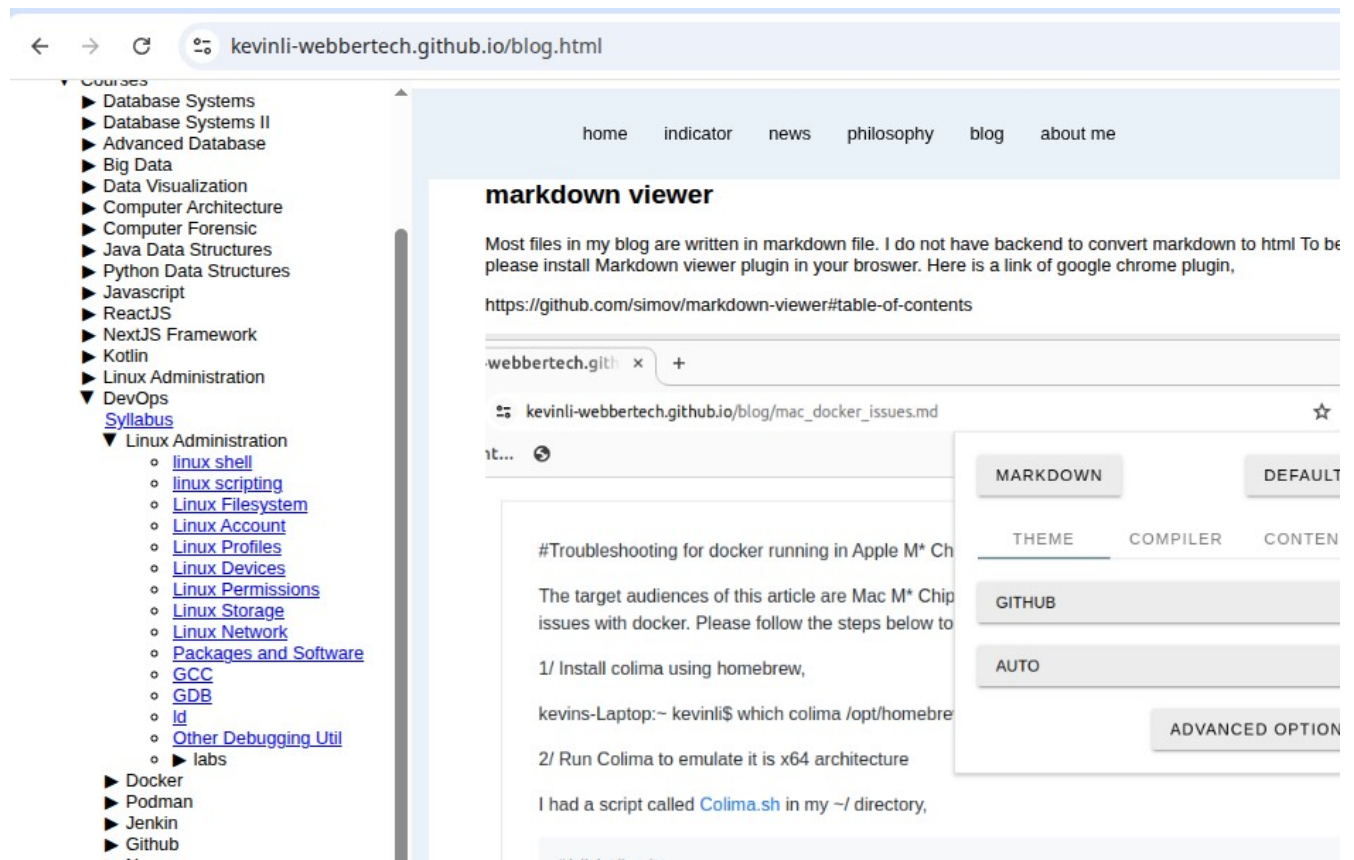
test> exit
mongodb@5bcd3b37f082:/$
```

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

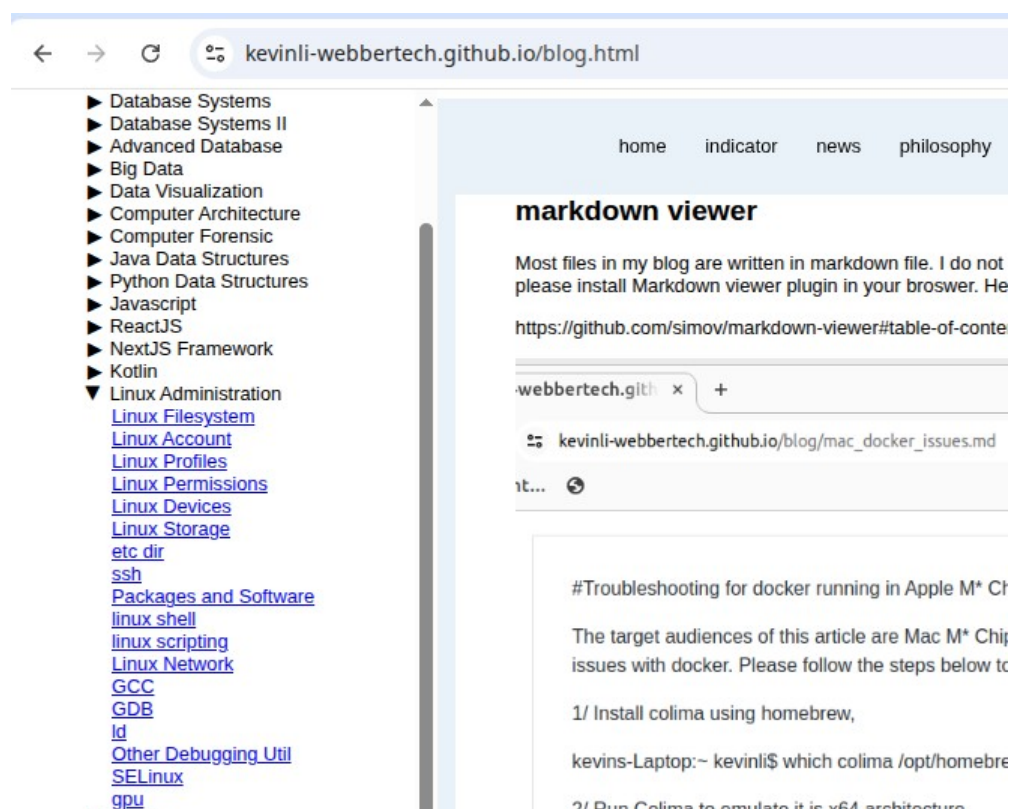
From here you can google for documentation to import csv or json file using the mongosh and you can go from there.

Ref

For more linux and Mac terminal tutorials,



Or there is a more detailed linux administration course.



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

- ▶ Python Data Structures
- ▶ Javascript
- ▶ ReactJS
- ▶ NextJS Framework
- ▶ Kotlin
- ▶ Linux Administration
- ▶ DevOps
- ▶ Deep Learning
- ▶ Springboot
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▼ References

▶ Language

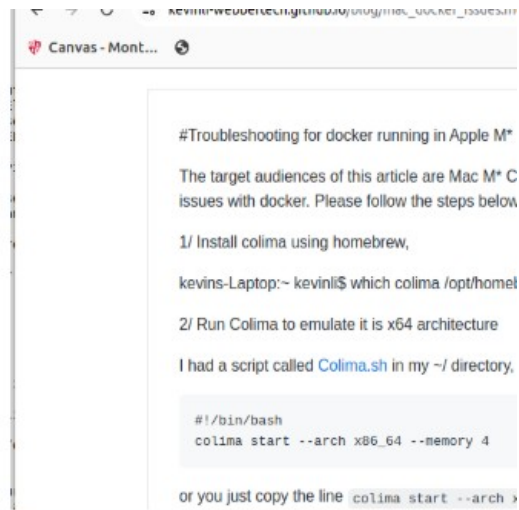
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