

LAPORAN PRAKTIKUM VIRTUALISASI KOMPUTER

MENJALANKAN IMAGE PADA CONTAINER DOCKER



Agus Pranata Marpaung

13323033

DIII TEKNOLOGI KOMPUTER

**INSTITUT TEKNOLOGI DEL
FAKULTAS VOKASI**

Judul Praktikum

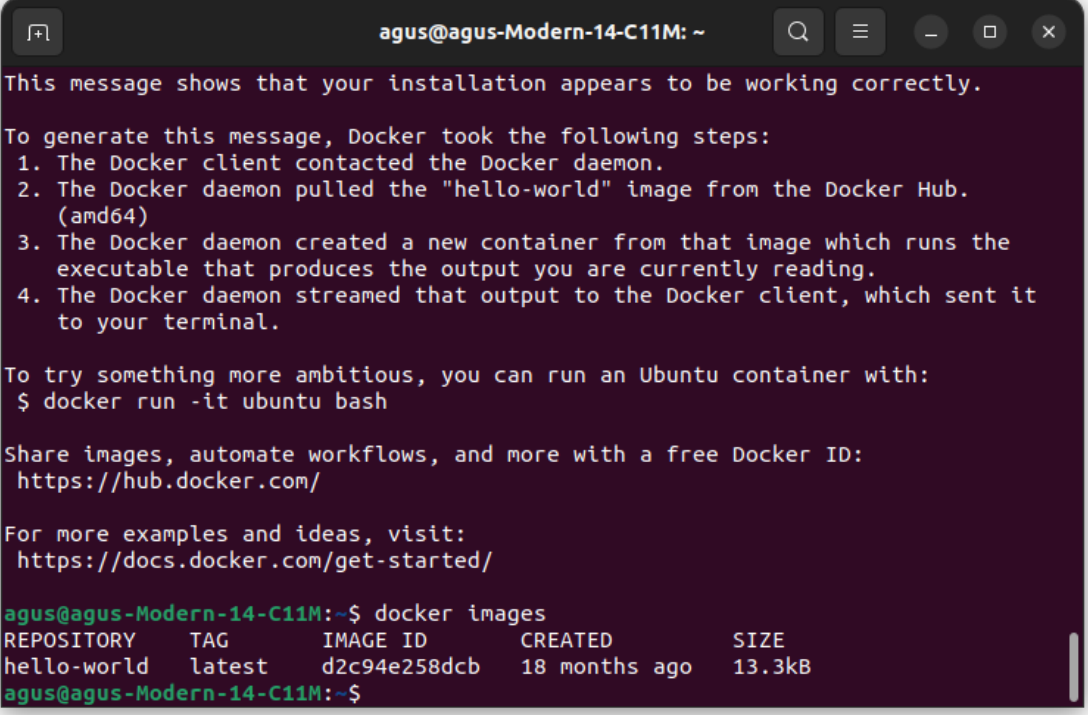
Minggu/Sesi	:	X/2
Kode Mata Kuliah	:	1032101
Nama Mata Kuliah	:	VIRTUALISASI KOMPUTER
Setoran	:	Jawaban dalam bentuk <i>softcopy</i>
Batas Waktu Setoran	:	31 Oktober 2024 jam 21:30
Tujuan	:	1. Mahasiswa mampu mengetahui apa itu Docker Image Registry Container

Petunjuk

Praktikum

1. Untuk melihat daftar images pada local environment (laptop), Kita dapat mengetikkan command berikut.

docker images



```
agus@agus-Modern-14-C11M: ~
This message shows that your installation appears to be working correctly.

To generate this message, Docker took the following steps:
1. The Docker client contacted the Docker daemon.
2. The Docker daemon pulled the "hello-world" image from the Docker Hub.
   (amd64)
3. The Docker daemon created a new container from that image which runs the
   executable that produces the output you are currently reading.
4. The Docker daemon streamed that output to the Docker client, which sent it
   to your terminal.

To try something more ambitious, you can run an Ubuntu container with:
$ docker run -it ubuntu bash

Share images, automate workflows, and more with a free Docker ID:
https://hub.docker.com/

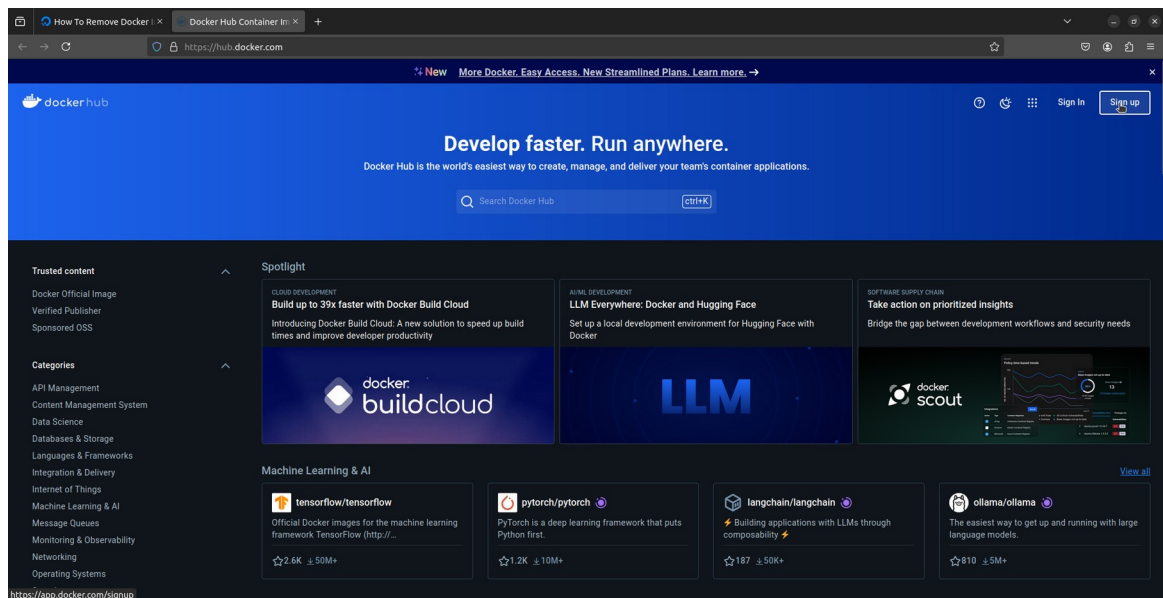
For more examples and ideas, visit:
https://docs.docker.com/get-started/

agus@agus-Modern-14-C11M:~$ docker images
REPOSITORY    TAG       IMAGE ID      CREATED       SIZE
hello-world    latest    d2c94e258dcb  18 months ago 13.3kB
agus@agus-Modern-14-C11M:~$
```

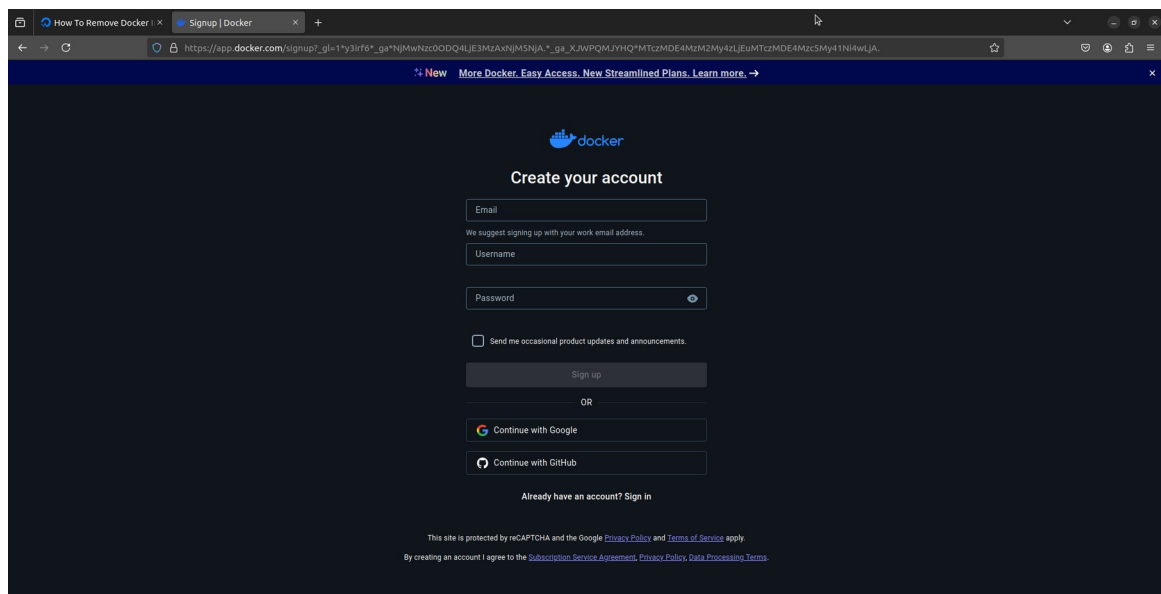
Pada local laptop Kita, Kita hanya mempunyai docker image hello-world yang telah Kita coba pada praktikum sebelumnya.

2. Kita awali dengan download image yang sudah ada/tersedia pada docker registry (docker- hub).

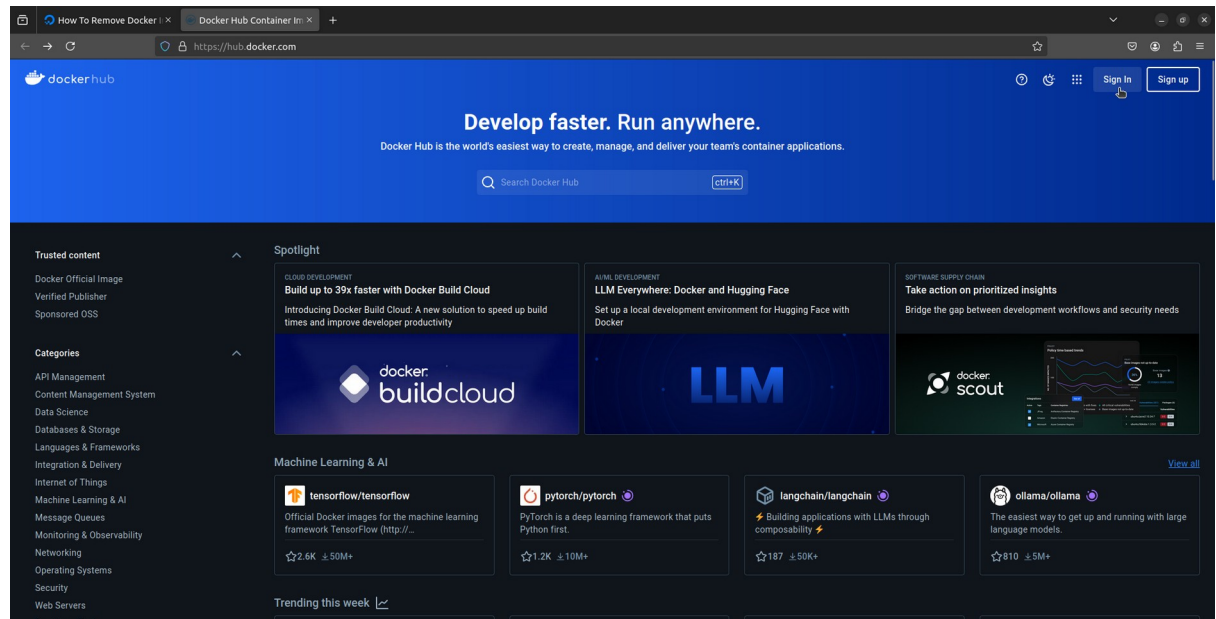
3. Jika Kita belum memiliki akun pada docker-hub, silahkan buat terlebih dahulu dengan mengunjungi link berikut: <https://hub.docker.com>, lalu klik button **Sign up**.



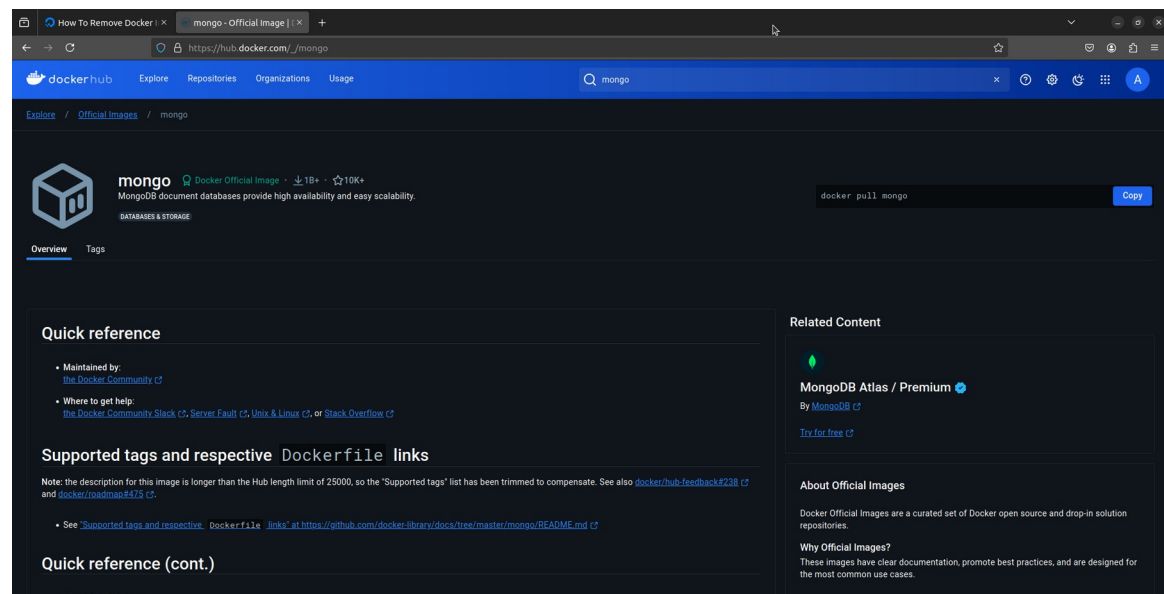
Lalu, Kita isilah semua form yang diminta.



4. Jika Kita telah memiliki akun, silahkan login dengan akun Kita masing-masing.



5. Setelah Kita create akun, maka Kita akan diminta diverifikasi email untuk melakukan aktivasi akun.
6. Selanjutnya download dahulu image mongodb dari docker-hub dengan mengetikkan mongo pada search box docker-hub.

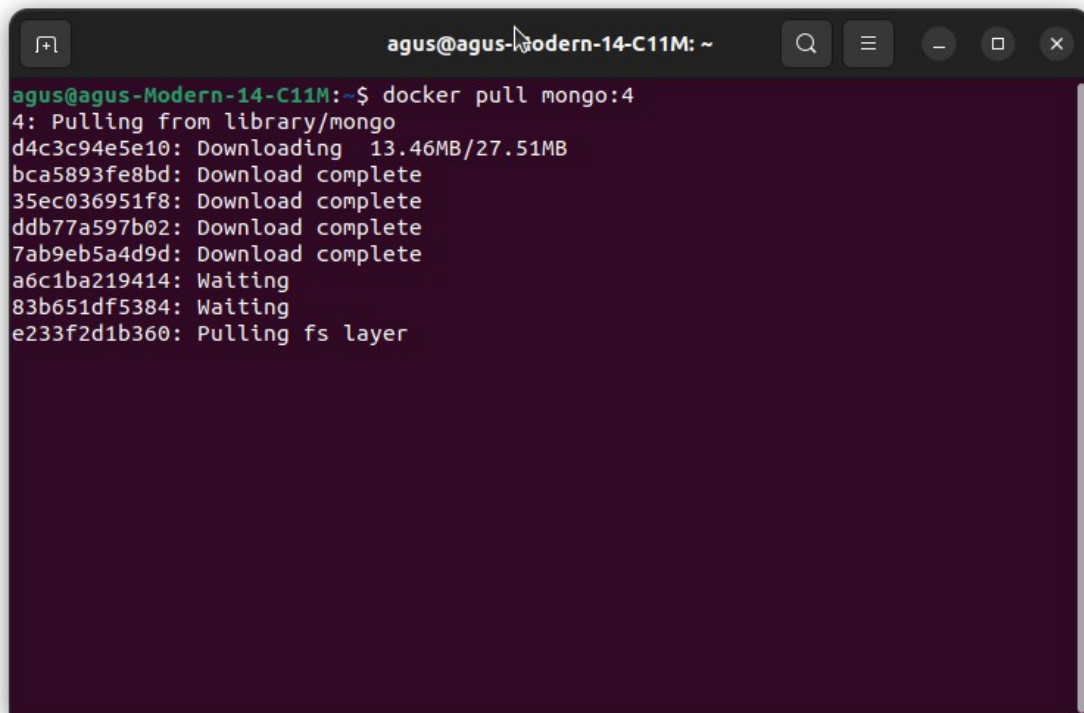


Keterangan:

Mongo adalah salah satu jenis database NoSQL yang menggunakan Javascript engine. Mongo sering digunakan pada microservice yang berbeda di dalam front end ataupun back end.

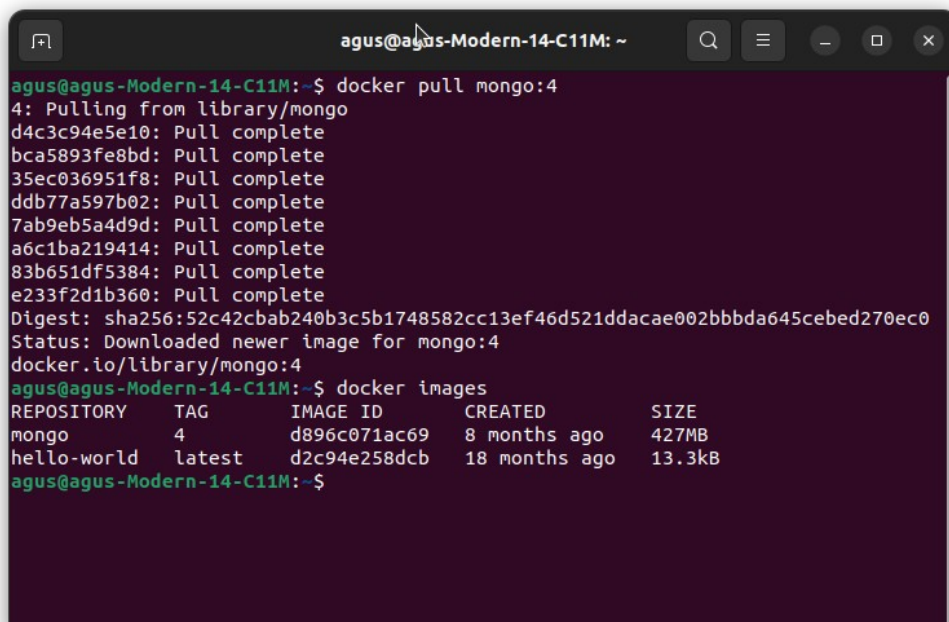
7. Lalu, Kita bisa mendownload images mongo versi 4 dengan mengetikkan command berikut.

docker pull mongo:4



```
agus@agus-Modern-14-C11M: ~  
agus@agus-Modern-14-C11M:~$ docker pull mongo:4  
4: Pulling from library/mongo  
d4c3c94e5e10: Downloading 13.46MB/27.51MB  
bca5893fe8bd: Download complete  
35ec036951f8: Download complete  
ddb77a597b02: Download complete  
7ab9eb5a4d9d: Download complete  
a6c1ba219414: Waiting  
83b651df5384: Waiting  
e233f2d1b360: Pulling fs layer
```

8. Lalu, Kita bisa melihat images yang sudah di pull dengan mengetikkan command berikut.

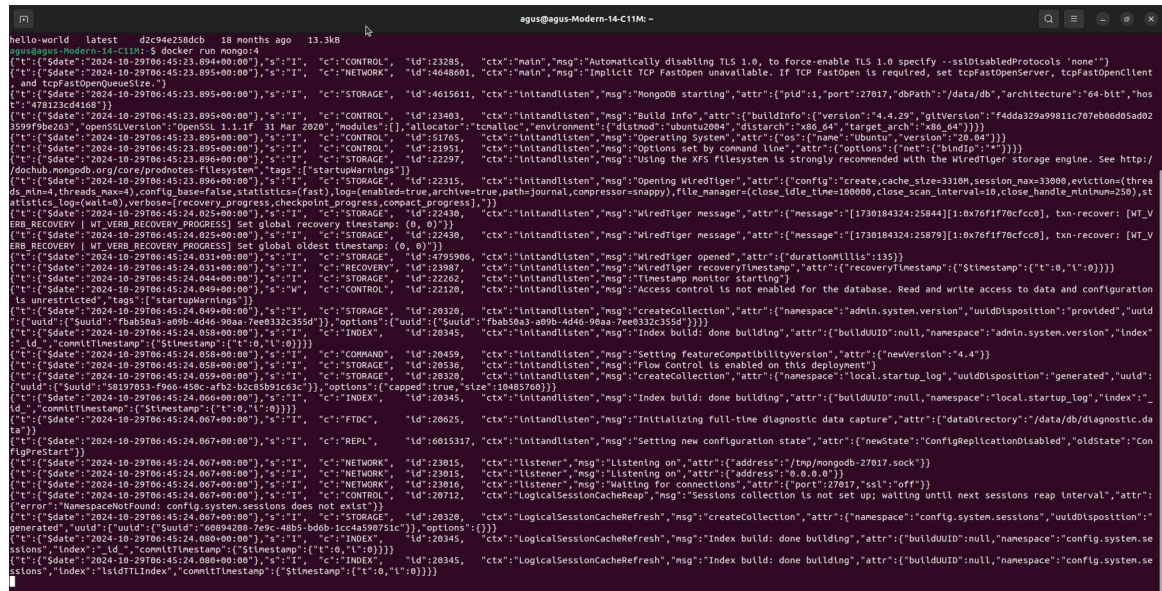


```
agus@agus-Modern-14-C11M: ~  
agus@agus-Modern-14-C11M:~$ docker pull mongo:4  
4: Pulling from library/mongo  
d4c3c94e5e10: Pull complete  
bca5893fe8bd: Pull complete  
35ec036951f8: Pull complete  
ddb77a597b02: Pull complete  
7ab9eb5a4d9d: Pull complete  
a6c1ba219414: Pull complete  
83b651df5384: Pull complete  
e233f2d1b360: Pull complete  
Digest: sha256:52c42cbab240b3c5b1748582cc13ef46d521ddacae002bbbda645cebed270ec0  
Status: Downloaded newer image for mongo:4  
docker.io/library/mongo:4  
agus@agus-Modern-14-C11M:~$ docker images  
REPOSITORY    TAG       IMAGE ID   CREATED    SIZE  
mongo         4         d896c071ac69   8 months ago   427MB  
hello-world   latest    d2c94e258dcb   18 months ago   13.3kB  
agus@agus-Modern-14-C11M:~$
```

Terlihat bahwa mongo berhasil di pull dengan versi 4 dengan ukuran 427MB.

9. Kita dapat mendownload docker images dengan versi yang Kita tentukan sendiri.
10. Kemudian Kita coba untuk membuat container berdasarkan image mongo dengan menjalankan command berikut.

docker run mongo:4

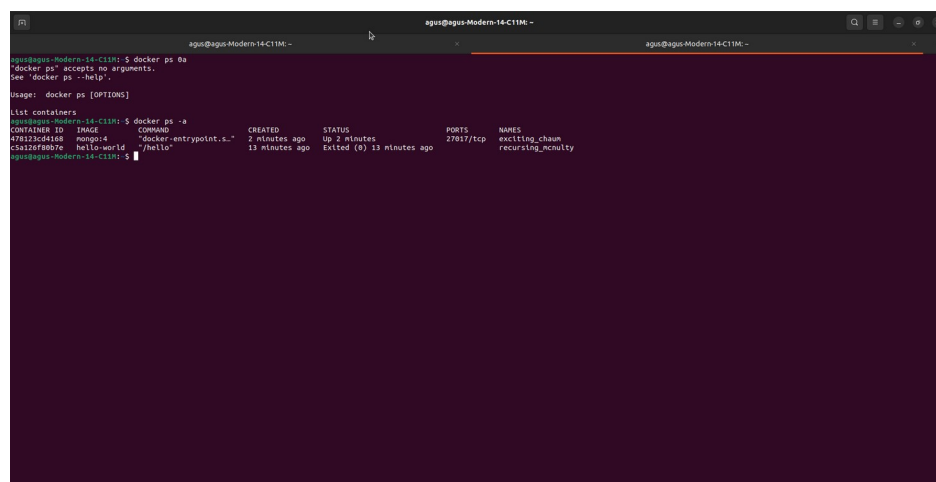


```
hello-world latest d2c94e258dcb 18 months ago 13.3kB
agus@agus-Modern-14-C11M:~$ docker run mongo:4
{"t":{"$date":"2024-10-29T06:45:23.894+00:00"},"s":"I",  "c":"CONTROL",  "id":23285,   "ctx":"main",msg:"Automatically disabling TLS 1.0, to force-enable TLS 1.0 specify --sslDisabledProtocols 'none'"}
{"t":{"$date":"2024-10-29T06:45:23.895+00:00"},"s":"I",  "c":"NETWORK",  "id":4648601, "ctx":"main",msg:"Implicit TCP Fastopen unavailable. If TCP Fastopen is required, set tcpfastopenserver, tcpfastopenclient, and tcpfastopenqueue size."}
{"t":{"$date":"2024-10-29T06:45:23.895+00:00"},"s":"I",  "c":"STORAGE",  "id":4615611, "ctx":"initandlisten",msg:"MongoDB starting",attr":{"pid":1,"port":27017,"dbPath":"/data/db","architecture":"64-bit","hostName":"478123cd4188"}}
{"t":{"$date":"2024-10-29T06:45:23.895+00:00"},"s":"I",  "c":"CONTROL",  "id":23403,   "ctx":"initandlisten",msg:"Build Info",attr":{"buildInfo":{"version":"4.4.29","gitVersion":"f4dda329a9981c707eb0d05ad023999f9be263","openSSLVersion":"OpenSSL 1.1.1f 31 Mar 2020","modules":[],"allocator":"tcmalloc","environment":{"distmod":"ubuntu2004","distarch":"x86_64","target_arch":"x86_64"}}}}
{"t":{"$date":"2024-10-29T06:45:23.895+00:00"},"s":"I",  "c":"CONTROL",  "id":51165,   "ctx":"initandlisten",msg:"Operating System",attr":{"os":{"name":"ubuntu","version":"20.04"}}}
{"t":{"$date":"2024-10-29T06:45:23.895+00:00"},"s":"I",  "c":"CONTROL",  "id":21951,   "ctx":"initandlisten",msg:"Options set by command line",attr":{"options":{"net":{"bindip":""}}}}
{"t":{"$date":"2024-10-29T06:45:23.896+00:00"},"s":"I",  "c":"STORAGE",  "id":22297,   "ctx":"initandlisten",msg:"Using the XFS filesystem is strongly recommended with the WiredTiger storage engine. See http://doc.mongodb.org/core/prodtest-filesystem#tag1-startupwarnings"}
{"t":{"$date":"2024-10-29T06:45:23.896+00:00"},"s":"I",  "c":"STORAGE",  "id":22315,   "ctx":"initandlisten",msg:"Opening WiredTiger",attr":{"config":{"create,cache_size=3310M,session_max=33000,eviction=(threads_min,threads_max=),config_base=false,statistics=(fast),log(enabled=true,archive=true,path=journal,compressor=snappy),file_manager=(close_idle_time=100000,close_scan_interval=10,close_handle_minimum=250),statistics_log=(wait=0),verbose=(recovery_progress,checkpoint_progress,compact_progress)}}}
{"t":{"$date":"2024-10-29T06:45:24.025+00:00"},"s":"I",  "c":"STORAGE",  "id":22430,   "ctx":"initandlisten",msg:"WiredTiger message",attr":{"message":["[1730184324:25844][1:0x76f170cfcc0], txn-recover: [WT_V.ERB RECOVERY | WT_V.ERB RECOVERY_PROGRESS] set global recovery timestamp: (0, 0)"]}}
{"t":{"$date":"2024-10-29T06:45:24.025+00:00"},"s":"I",  "c":"STORAGE",  "id":22430,   "ctx":"initandlisten",msg:"WiredTiger message",attr":{"message":["[1730184324:25879][1:0x76f170cfcc0], txn-recover: [WT_V.ERB RECOVERY | WT_V.ERB RECOVERY_PROGRESS] set global oldest timestamp: (0, 0)"]}}
{"t":{"$date":"2024-10-29T06:45:24.031+00:00"},"s":"I",  "c":"STORAGE",  "id":4795906, "ctx":"initandlisten",msg:"WiredTiger opened",attr":{"durationMills":135}}
{"t":{"$date":"2024-10-29T06:45:24.031+00:00"},"s":"I",  "c":"RECOVERY",  "id":22087,   "ctx":"initandlisten",msg:"WiredTiger recovery/restore",attr":{"recoveryTimestamp":{"$timestamp":{"t":0,"l":0}}}}
{"t":{"$date":"2024-10-29T06:45:24.044+00:00"},"s":"I",  "c":"STORAGE",  "id":22262, "ctx":"initandlisten",msg:"Timestamp monitor starting"}
{"t":{"$date":"2024-10-29T06:45:24.049+00:00"},"s":"I",  "c":"STORAGE",  "id":22120, "ctx":"initandlisten",msg:"Access control is not enabled for the database. Read and write access to data and configuration is unrestricted",tags":{"startupWarnings":[]}}
{"t":{"$date":"2024-10-29T06:45:24.049+00:00"},"s":"I",  "c":"STORAGE",  "id":20320,   "ctx":"initandlisten",msg:"createCollection",attr":{"namespace":"admin.system.version","uuidDisposition":"provided","uuid":{"uuid":"fbaab503-a09b-4d46-90aa-7ee0332c355d"},"options":{"uuid":{"uuid":"fbaab503-a09b-4d46-90aa-7ee0332c355d"}}}}
{"t":{"$date":"2024-10-29T06:45:24.058+00:00"},"s":"I",  "c":"INDEX",    "id":20345, "ctx":"initandlisten",msg:"Index build: done building",attr":{"buildUUID":"null","namespace":"admin.system.version","index":{"id":"_commitTimestamp","$timestamp":{"t":0,"l":0}}}}
{"t":{"$date":"2024-10-29T06:45:24.058+00:00"},"s":"I",  "c":"COMMAND",  "id":20459, "ctx":"initandlisten",msg:"Setting featureCompatibilityVersion",attr":{"newVersion":"4.4"}}
{"t":{"$date":"2024-10-29T06:45:24.058+00:00"},"s":"I",  "c":"STORAGE",  "id":20356, "ctx":"initandlisten",msg:"Flow Control is enabled on this deployment"}
{"t":{"$date":"2024-10-29T06:45:24.059+00:00"},"s":"I",  "c":"STORAGE",  "id":20320, "ctx":"initandlisten",msg:"createCollection",attr":{"namespace":"local.startup_log","uuidDisposition":"generated","uuid":{"uuid":"58197053-f96e-490c-af02-b2c85b91c63c"},"options":{"capped":true,"size":10485760}}}}
{"t":{"$date":"2024-10-29T06:45:24.066+00:00"},"s":"I",  "c":"INDEX",    "id":20345, "ctx":"initandlisten",msg:"Index build: done building",attr":{"buildUUID":"null","namespace":"local.startup_log","index":{"id":"_commitTimestamp","$timestamp":{"t":0,"l":0}}}}
{"t":{"$date":"2024-10-29T06:45:24.067+00:00"},"s":"I",  "c":"FTDC",    "id":20625, "ctx":"initandlisten",msg:"Initializing full-time diagnostic data capture",attr":{"dataDirectory":"/data/db/diagnostic.data"}}
{"t":{"$date":"2024-10-29T06:45:24.067+00:00"},"s":"I",  "c":"REPL",    "id":6015317, "ctx":"initandlisten",msg:"Setting new configuration state",attr":{"newState":"ConfigReplicationDisabled","oldState":"ConfigReplicationEnabled","flagsRestart":[]}}
{"t":{"$date":"2024-10-29T06:45:24.067+00:00"},"s":"I",  "c":"NETWORK",  "id":23015, "ctx":"listener",msg:"Listening on",attr":{"address":"/tmp/mongodb-27017.sock"}}
{"t":{"$date":"2024-10-29T06:45:24.067+00:00"},"s":"I",  "c":"NETWORK",  "id":23015, "ctx":"listener",msg:"Listening on",attr":{"address":"0.0.0.0:27017"}}
{"t":{"$date":"2024-10-29T06:45:24.067+00:00"},"s":"I",  "c":"NETWORK",  "id":23016, "ctx":"listener",msg:"Waiting for connections",attr":{"port":27017,"ssl":"off"}}
{"t":{"$date":"2024-10-29T06:45:24.067+00:00"},"s":"I",  "c":"CONTROL",  "id":20712, "ctx":"LogicalSessionCacheReap",msg:"Sessions collection is not set up; waiting until next sessions reap interval",attr":{"error":"NamespaceNotFound: config.system.sessions does not exist"}}
{"t":{"$date":"2024-10-29T06:45:24.067+00:00"},"s":"I",  "c":"STORAGE",  "id":20320, "ctx":"LogicalSessionCacheRefresh",msg:"createCollection",attr":{"namespace":"config.system.sessions","uuidDisposition":"generated","uuid":{"uuid":"60894208-efc-48b5-bd0b-1cc4a590751c"},"options":{"uuid":{"uuid":"60894208-efc-48b5-bd0b-1cc4a590751c"},"options":{"uuid":{"uuid":"60894208-efc-48b5-bd0b-1cc4a590751c"}}}}}}
{"t":{"$date":"2024-10-29T06:45:24.080+00:00"},"s":"I",  "c":"INDEX",    "id":20345, "ctx":"LogicalSessionCacheRefresh",msg:"Index build: done building",attr":{"buildUUID":"null","namespace":"config.system.sessions","index":{"id":"_lsidTTLIndex","commitTimestamp":{"$timestamp":{"t":0,"l":0}}}}}}
{"t":{"$date":"2024-10-29T06:45:24.080+00:00"},"s":"I",  "c":"INDEX",    "id":20345, "ctx":"LogicalSessionCacheRefresh",msg:"Index build: done building",attr":{"buildUUID":"null","namespace":"config.system.sessions","index":{"id":"_lsidTTLIndex","commitTimestamp":{"$timestamp":{"t":0,"l":0}}}}}}
```

Disini terlihat bahwa Kita berhasil menjalankan container dari image mongo yang dimana Kita bisa langsung melihat proses dari berjalannya container mongo.

11. Kita juga bisa melihat apakah container yang sudah Kita buat itu berjalan dengan baik dengan membuat tab baru pada terminal dan menjalankan command berikut.

docker ps -a



```
agus@agus-Modern-14-C11M:~$ docker ps -a
CONTAINER ID   IMAGE      STATUS      PORTS      NAMES
478123cd4188   mongo:4   Up 2 minutes   27017/tcp   exciting_chaum
51222f6007e   hello-world   Exited (0) 13 minutes ago          recurring_nm0lty

agus@agus-Modern-14-C11M:~$ docker run mongo:4
hello
```

Note:

Terlihat bahwa STATUS dari container mongo adalah Up dan berjalan pada port default 27017, hal ini membuktikan bahwa container berjalan dengan baik. Namun jika Kita perhatikan pada bagian NAMES, terdapat kata wonderful_bhaskara. Hal itu bisa terjadi dikarenakan jika Kita menjalankan command tersebut docker engine akan memberikan random name pada docker container. Dengan menggunakan random name pada docker container, Kita akan sulit untuk mengingat random name tersebut.

12. Jika Kita ingin membuat sebuah container dengan nama yang Kita inginkan, Kita bisa menjalankan command berikut.

docker container create -name mongoserver1 mongo:4

```

agus@agus-Modern-14-C11M: ~
agus@agus-Modern-14-C11M: ~$ docker ps 0a
"docker ps" accepts no arguments.
See 'docker ps --help'.

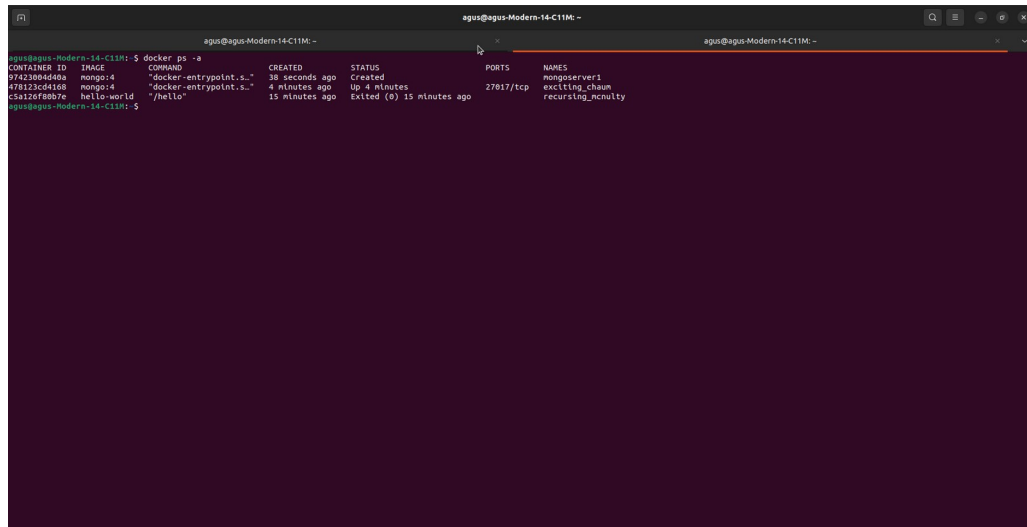
Usage:  docker ps [OPTIONS]

List containers
agus@agus-Modern-14-C11M:~$ docker ps -a
CONTAINER ID   IMAGE      COMMAND                  CREATED        STATUS
PORTS          NAMES
478123cd4168   mongo:4    "docker-entrypoint.s..." 2 minutes ago Up 2 minutes
27017/tcp      exciting_chaum
c5a126f80b7e   hello-world "/hello"                13 minutes ago Exited (0) 13 minu
tes ago      recursing_mcnulty
agus@agus-Modern-14-C11M:~$ docker container create -name mongoserver1 mongo:4
unknown shorthand flag: 'n' in -name
See 'docker container create --help'.
agus@agus-Modern-14-C11M:~$ docker container create --name mongoserver1 mongo:4
97423004d40afe108c769fad437e2225862b63fd6258748fe3a3de1215d7bd2b
agus@agus-Modern-14-C11M:~$
  
```

Keterangan:

--name	:	memberi nama docker container
mongo:4	:	docker image yang sudah Anda pull sebelumnya

13. Untuk memastikan apakah docker container berhasil dibuat dengan menjalankan command berikut.

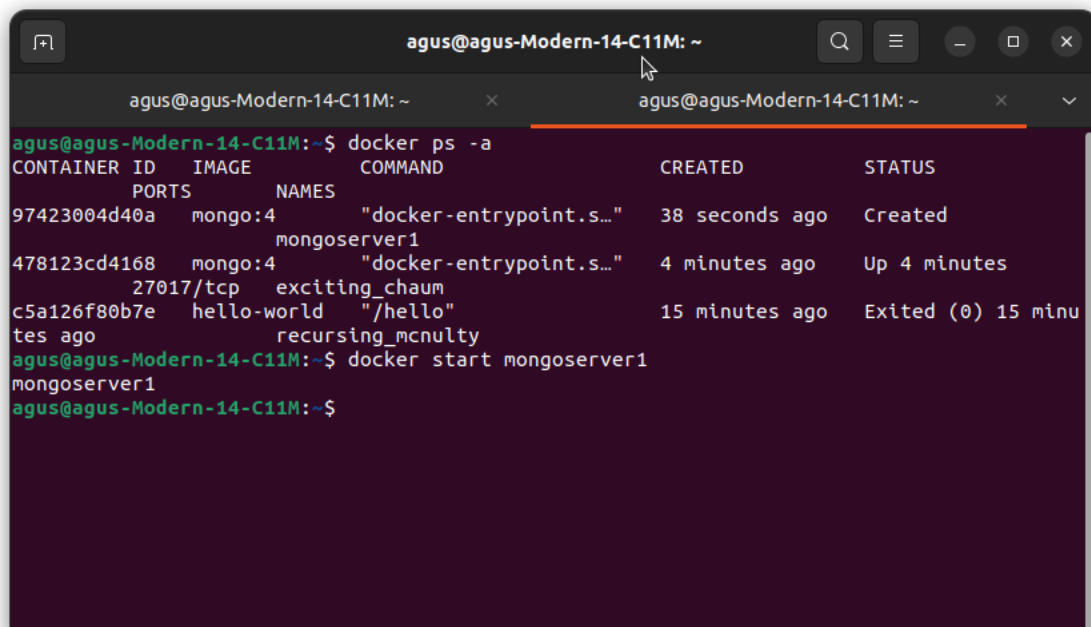


```
agus@agus-Modern-14-C11M: ~$ docker ps -a
CONTAINER ID   IMAGE     COMMAND                  CREATED        STATUS        PORTS          NAMES
97423004d40a   mongo:4   "docker-entrypoint.s..." 38 seconds ago Created              mongoserver1
478123cd4168   mongo:4   "docker-entrypoint.s..." 4 minutes ago  Up 4 minutes    27017/tcp      exciting_chaum
c5a126f80b7e   hello-world "/hello"                 15 minutes ago Exited (0) 15 minutes ago recurring_mcnulty
agus@agus-Modern-14-C11M: ~$
```

Disini terlihat bahwa docker container mongoserver1 berhasil dibuat, namun belum berjalan.

14. Untuk menjalankan docker container mongoserver1, Kita bisa menjalankan command berikut.

docker start mongoserver1



```
agus@agus-Modern-14-C11M: ~$ docker start mongoserver1
mongoserver1
agus@agus-Modern-14-C11M: ~$
```

15. Untuk memastikan apakah docker container mongoserver1 berhasil berjalan, Kita dapat menjalankan command berikut.

```
agus@agus-Modern-14-C11M: ~$ docker ps -a
```

CONTAINER ID	IMAGE	COMMAND	CREATED	STATUS	PORTS	NAMES
97423004d40a	mongo:4	"docker-entrypoint.s..."	38 seconds ago	Created		
478123cd4168	mongo:4	"docker-entrypoint.s..."	4 minutes ago	Up 4 minutes	27017/tcp	exciting_chaum
c5a126f80b7e	hello-world	/hello	15 minutes ago	Exited (0) 15 minutes ago		recurring_mcnulty

```
agus@agus-Modern-14-C11M: ~$ docker start mongoserver1
mongoserver1
agus@agus-Modern-14-C11M: ~$ docker ps -a
```

CONTAINER ID	IMAGE	COMMAND	CREATED	STATUS	PORTS	NAMES
97423004d40a	mongo:4	"docker-entrypoint.s..."	4 minutes ago	Up 31 seconds		
478123cd4168	mongo:4	"docker-entrypoint.s..."	8 minutes ago	Up 8 minutes	27017/tcp	mongoserver1
c5a126f80b7e	hello-world	/hello	19 minutes ago	Exited (0) 19 minutes ago		exciting_chaum

```
agus@agus-Modern-14-C11M: ~$
```

16. Jika Kita ingin mengatur atau melakukan interaksi terhadap container yang sudah Kita buat, Kita bisa membuat proses baru, yaitu bash proses atau proses mongo shell untuk memberikan input command terhadap container.

docker exec -it exciting_chaum bash

```
Usage: docker exec [OPTIONS] CONTAINER COMMAND [ARG...]

Execute a command in a running container
agus@agus-Modern-14-C11M:~$ docker exec -it mongoserver1
"docker exec" requires at least 2 arguments.
See 'docker exec --help'.

Usage: docker exec [OPTIONS] CONTAINER COMMAND [ARG...]

Execute a command in a running container
agus@agus-Modern-14-C11M:~$ docker ps -a
```

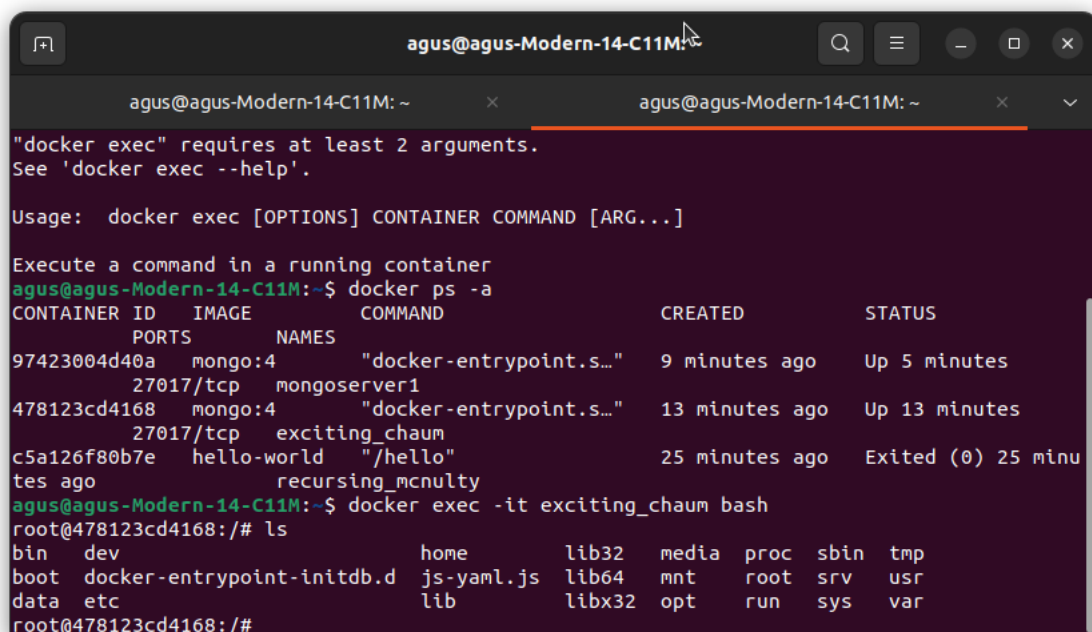
CONTAINER ID	IMAGE	COMMAND	CREATED	STATUS
97423004d40a	mongo:4	"docker-entrypoint.s..."	9 minutes ago	Up 5 minutes
478123cd4168	mongo:4	"docker-entrypoint.s..."	13 minutes ago	Up 13 minutes
c5a126f80b7e	hello-world	/hello	25 minutes ago	Exited (0) 25 minutes ago

```
agus@agus-Modern-14-C11M:~$ docker exec -it exciting_chaum bash
root@478123cd4168:/#
```

Keterangan:

docker exec	:	menjalankan <i>command</i> di dalam docker container yang sudah berjalan
-it	:	-i atau --interactive , memungkinkan Anda untuk memberikan input dan menerima output -t atau --tty , mengalokasikan terminal pada container
exciting_chaum	:	nama atau ID dari container yang ingin Anda konfigurasi
bash	:	memungkinkan Anda untuk berinteraksi dengan container dengan menjalankan <i>command</i> dalam lingkungan container tersebut

17. Saat Kita sudah masuk kedalam container menggunakan bash, Kita bisa menjalankan command linux seperti biasa untuk melakukan konfigurasi terhadap container.



```
agus@agus-Modern-14-C11M:~  
"docker exec" requires at least 2 arguments.  
See 'docker exec --help'.  
  
Usage:  docker exec [OPTIONS] CONTAINER COMMAND [ARG...]  
  
Execute a command in a running container  
agus@agus-Modern-14-C11M:~$ docker ps -a  
CONTAINER ID   IMAGE     COMMAND                  CREATED        STATUS  
PORTS          NAMES  
97423004d40a   mongo:4   "docker-entrypoint.s..." 9 minutes ago  Up 5 minutes  
27017/tcp     mongoserver1  
478123cd4168   mongo:4   "docker-entrypoint.s..." 13 minutes ago  Up 13 minutes  
27017/tcp     exciting_chaum  
c5a126f80b7e   hello-world "/hello"                25 minutes ago  Exited (0) 25 minutes ago  
recurring_mcnulty  
agus@agus-Modern-14-C11M:~$ docker exec -it exciting_chaum bash  
root@478123cd4168:/# ls  
bin      dev             home            lib32         media          proc           sbin          tmp  
boot     docker-entrypoint-initdb.d  js-yaml.js     lib64         mnt            root           srv           usr  
data     etc             lib             libx32        opt            run            sys           var  
root@478123cd4168:/#
```

Disini terlihat semua data-data yang ada pada docker container.


18. Lalu Kita akan mencoba untuk melakukan konfigurasi pada mongodb yang ada pada container yang sudah Kita buat sebelumnya. Kita bisa menjalankan command mongo untuk terhubung kedalam mongo.

```
agus@agus-Modern-14-C11M: ~  
agus@agus-Modern-14-C11M:~$ docker start mongoserver1  
mongoserver1  
agus@agus-Modern-14-C11M:~$ sudo docker exec -it mongoserver1  
"docker exec" requires at least 2 arguments.  
See "docker exec --help".  
Usage: docker exec [OPTIONS] CONTAINER COMMAND [ARG...]  
Execute a command in a running container  
agus@agus-Modern-14-C11M:~$ docker exec -it mongoserver1  
"docker exec" requires at least 2 arguments.  
See "docker exec --help".  
Usage: docker exec [OPTIONS] CONTAINER COMMAND [ARG...]  
Execute a command in a running container  
agus@agus-Modern-14-C11M:~$ docker ps -a  
CONTAINER ID   IMAGE     COMMAND                  CREATED      STATUS      PORTS      NAMES  
97423084d40a   mongo:4   "docker-entrypoint.s..." 9 minutes ago Up 5 minutes 27017/tcp   mongoserver1  
47813cd4168    mongo:4   "docker-entrypoint.s..." 13 minutes ago Up 13 minutes 27017/tcp   exciting_chaum  
c5a126f80b7e   hello-world "/hello"                25 minutes ago Exited (0) 25 minutes ago recurring_mculty  
agus@agus-Modern-14-C11M:~$ docker exec -it exciting_chaum bash  
root@47813cd4168:/# ls  
bin      dev      hone     lib32    media    proc    /sbin    tmp  
boot     docker-entrypoint-initdb.d js-yaml.js lib64     mnt      root     srv      usr  
data     etc      lib      libx32   opt      run      sys      var  
root@47813cd4168:/# mongo  
MongoDB shell version v4.4.29  
connecting to: mongodb://127.0.0.1:27017/?compressors=disabled&gssapiServiceName=mongodb  
Implicit session: session { "id": "UUID('11f6129b-05be-45ca-9370-d67c12ab1c4e') }  
MongoDB server version: 4.4.29  
Welcome to the MongoDB shell.  
For interactive help, type "help".  
For more comprehensive documentation, see  
https://docs.mongodb.com/  
Questions? Try the MongoDB Developer Community Forums  
https://community.mongodb.com  
---  
The server generated these startup warnings when booting:  
2024-10-29T06:45:23.896+00:00: Using the XFS filesystem is strongly recommended with the WiredTiger storage engine. See http://dochub.mongodb.org/core/prodnotes-filesystem  
2024-10-29T06:45:24.049+00:00: Access control is not enabled for the database. Read and write access to data and configuration is unrestricted  
---
```

19. Lalu Kita akan memeriksa versi dari mongodb yang Kita gunakan, dengan menjalankan command berikut.

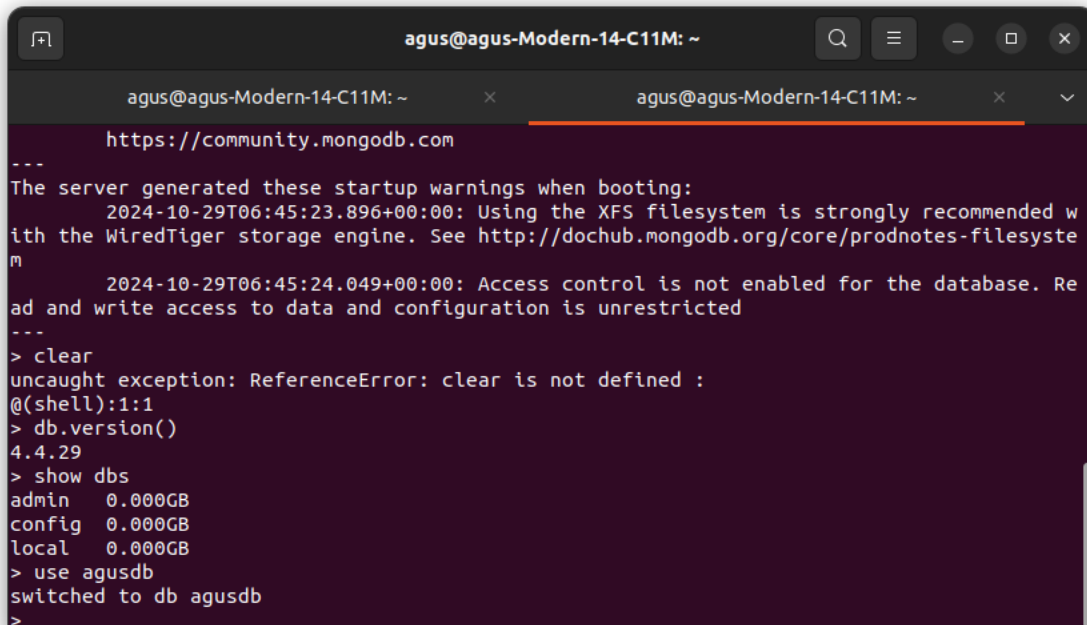
```
agus@agus-Modern-14-C11M: ~  
agus@agus-Modern-14-C11M:~$ mongo  
MongoDB server version: 4.4.29  
Welcome to the MongoDB shell.  
For interactive help, type "help".  
For more comprehensive documentation, see  
https://docs.mongodb.com/  
Questions? Try the MongoDB Developer Community Forums  
https://community.mongodb.com  
---  
The server generated these startup warnings when booting:  
2024-10-29T06:45:23.896+00:00: Using the XFS filesystem is strongly recommended with the WiredTiger storage engine. See http://dochub.mongodb.org/core/prodnotes-filesystem  
2024-10-29T06:45:24.049+00:00: Access control is not enabled for the database. Read and write access to data and configuration is unrestricted  
---  
> clear  
uncaught exception: ReferenceError: clear is not defined :  
@(shell):1:1  
> db.version()  
4.4.29  
>
```

20. Kemudian Kita akan menampilkan list database yang tersedia di mongodb dengan menjalankan command berikut.



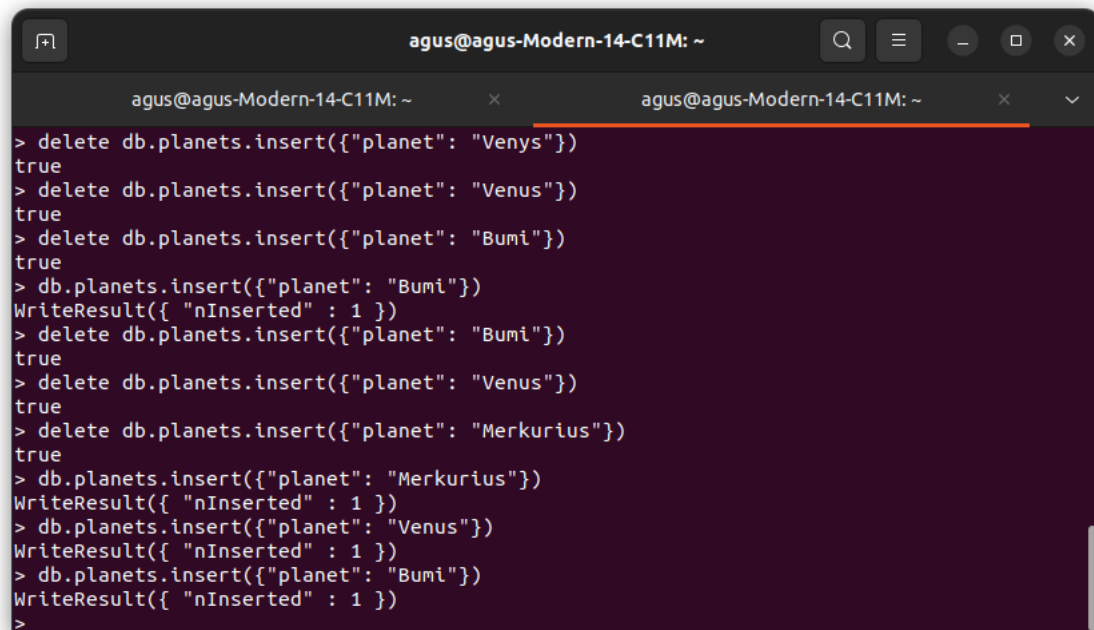
```
agus@agus-Modern-14-C11M: ~  
https://docs.mongodb.com/  
Questions? Try the MongoDB Developer Community Forums  
https://community.mongodb.com  
---  
The server generated these startup warnings when booting:  
2024-10-29T06:45:23.896+00:00: Using the XFS filesystem is strongly recommended with the WiredTiger storage engine. See http://dochub.mongodb.org/core/prodnotes-filesystem  
2024-10-29T06:45:24.049+00:00: Access control is not enabled for the database. Read and write access to data and configuration is unrestricted  
---  
> clear  
uncaught exception: ReferenceError: clear is not defined :  
@(shell):1:1  
> db.version()  
4.4.29  
> show dbs  
admin    0.000GB  
config   0.000GB  
local    0.000GB  
>
```

21. Kita cobalah untuk membuat database baru yang akan Kita gunakan untuk menambahkan data baru pada database yang Kita buat sebelumnya, dengan menjalankan command berikut.



```
agus@agus-Modern-14-C11M: ~  
https://community.mongodb.com  
---  
The server generated these startup warnings when booting:  
2024-10-29T06:45:23.896+00:00: Using the XFS filesystem is strongly recommended with the WiredTiger storage engine. See http://dochub.mongodb.org/core/prodnotes-filesystem  
2024-10-29T06:45:24.049+00:00: Access control is not enabled for the database. Read and write access to data and configuration is unrestricted  
---  
> clear  
uncaught exception: ReferenceError: clear is not defined :  
@(shell):1:1  
> db.version()  
4.4.29  
> show dbs  
admin    0.000GB  
config   0.000GB  
local    0.000GB  
> use agusdb  
switched to db agusdb  
>
```

22. Lalu Kita buat collection yang baru dengan nama planets yang akan berisikan label planet dan valuenya yaitu jenis-jenis planet.

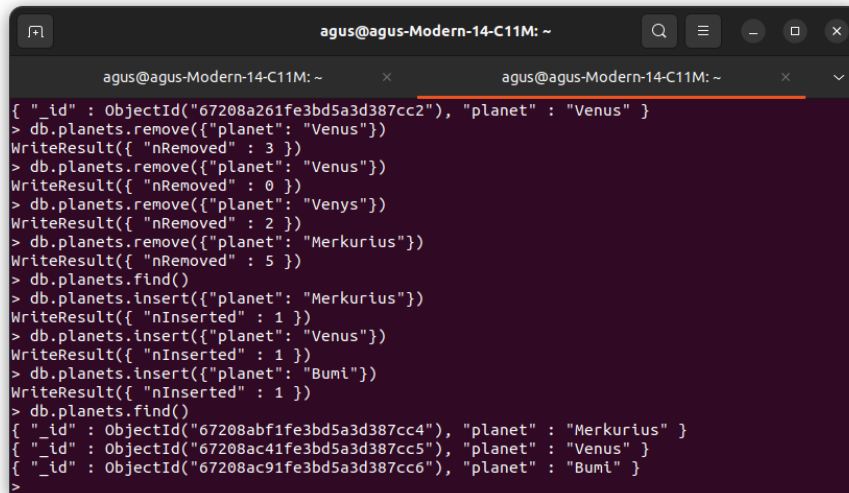


```
agus@agus-Modern-14-C11M: ~  
> delete db.planets.insert({"planet": "Venys"})  
true  
> delete db.planets.insert({"planet": "Venus"})  
true  
> delete db.planets.insert({"planet": "Bumi"})  
true  
> db.planets.insert({"planet": "Bumi"})  
WriteResult({ "nInserted" : 1 })  
> delete db.planets.insert({"planet": "Bumi"})  
true  
> delete db.planets.insert({"planet": "Venus"})  
true  
> delete db.planets.insert({"planet": "Merkurius"})  
true  
> db.planets.insert({"planet": "Merkurius"})  
WriteResult({ "nInserted" : 1 })  
> db.planets.insert({"planet": "Venus"})  
WriteResult({ "nInserted" : 1 })  
> db.planets.insert({"planet": "Bumi"})  
WriteResult({ "nInserted" : 1 })  
>
```

Keterangan:

db	:	database yang sedang digunakan
planets	:	nama collection yang baru atau yang sudah ada pada database.
insert	:	metode untuk memasukkan data kedalam collection

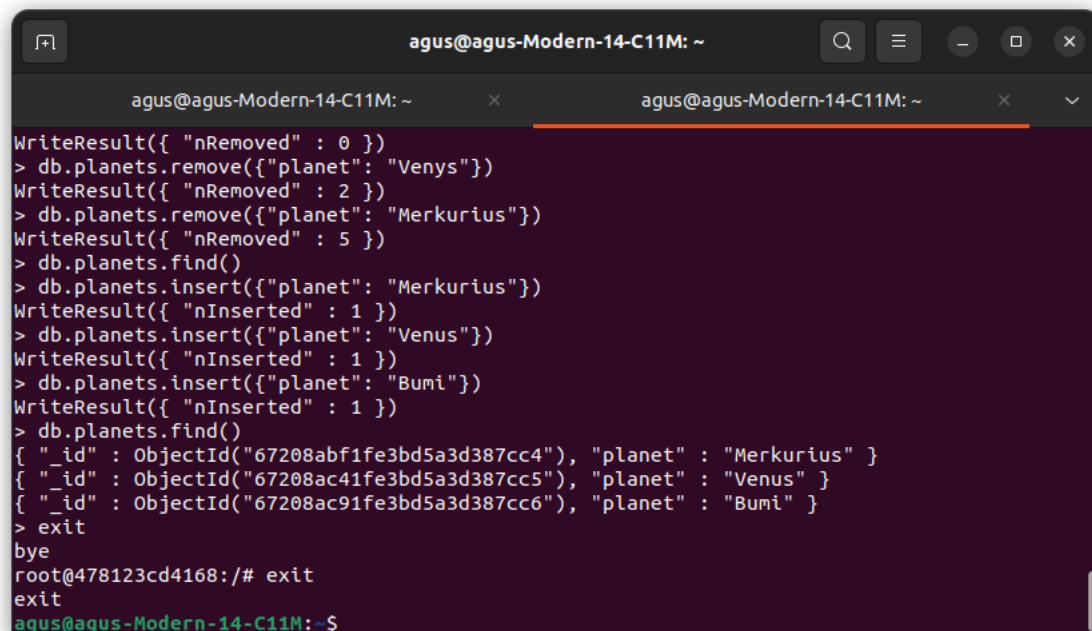
23. Lalu Kita pastikan apakah data tersebut berhasil ditambah dengan menjalankan command berikut.



```
agus@agus-Modern-14-C11M: ~  
> db.planets.remove({"planet": "Venus"})  
WriteResult({ "nRemoved" : 3 })  
> db.planets.remove({"planet": "Venus"})  
WriteResult({ "nRemoved" : 0 })  
> db.planets.remove({"planet": "Venys"})  
WriteResult({ "nRemoved" : 2 })  
> db.planets.remove({"planet": "Merkurius"})  
WriteResult({ "nRemoved" : 5 })  
> db.planets.find()  
> db.planets.insert({"planet": "Merkurius"})  
WriteResult({ "nInserted" : 1 })  
> db.planets.insert({"planet": "Venus"})  
WriteResult({ "nInserted" : 1 })  
> db.planets.insert({"planet": "Bumi"})  
WriteResult({ "nInserted" : 1 })  
> db.planets.find()  
{ "_id" : ObjectId("67208abf1fe3bd5a3d387cc4"), "planet" : "Merkurius" }  
{ "_id" : ObjectId("67208ac41fe3bd5a3d387cc5"), "planet" : "Venus" }  
{ "_id" : ObjectId("67208ac91fe3bd5a3d387cc6"), "planet" : "Bumi" }  
>
```

Maka akan muncul data yang baru Kita masukkan.

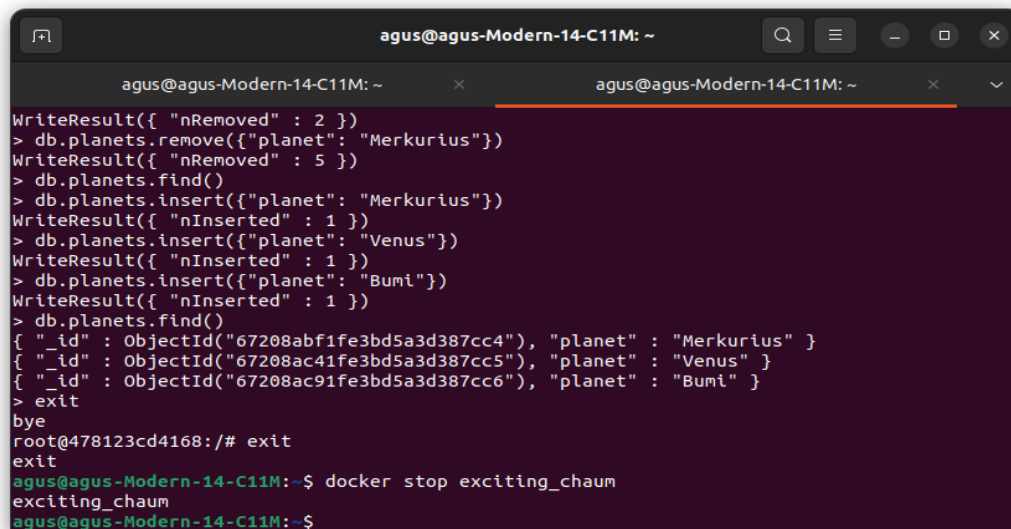
24. Kemudian Kita coba untuk verifikasi apakah isi dari database pada container ini akan tersalin pada container baru yang akan dibuat. Kita dapat keluar terlebih dahulu dari mongo shell dan bash shell pada container dengan mengetikkan exit.



```
WriteResult({ "nRemoved" : 0 })  
> db.planets.remove({"planet": "Venys"})  
WriteResult({ "nRemoved" : 2 })  
> db.planets.remove({"planet": "Merkurius"})  
WriteResult({ "nRemoved" : 5 })  
> db.planets.find()  
> db.planets.insert({"planet": "Merkurius"})  
WriteResult({ "nInserted" : 1 })  
> db.planets.insert({"planet": "Venus"})  
WriteResult({ "nInserted" : 1 })  
> db.planets.insert({"planet": "Bumi"})  
WriteResult({ "nInserted" : 1 })  
> db.planets.find()  
{ "_id" : ObjectId("67208abf1fe3bd5a3d387cc4"), "planet" : "Merkurius" }  
{ "_id" : ObjectId("67208ac41fe3bd5a3d387cc5"), "planet" : "Venus" }  
{ "_id" : ObjectId("67208ac91fe3bd5a3d387cc6"), "planet" : "Bumi" }  
> exit  
bye  
root@478123cd4168:/# exit  
exit  
agus@agus-Modern-14-C11M:~$
```


25. Setelah itu, Kita berhenti terlebih dahulu container yang sudah Kita konfigurasi sebelumnya dengan menjalankan command berikut.

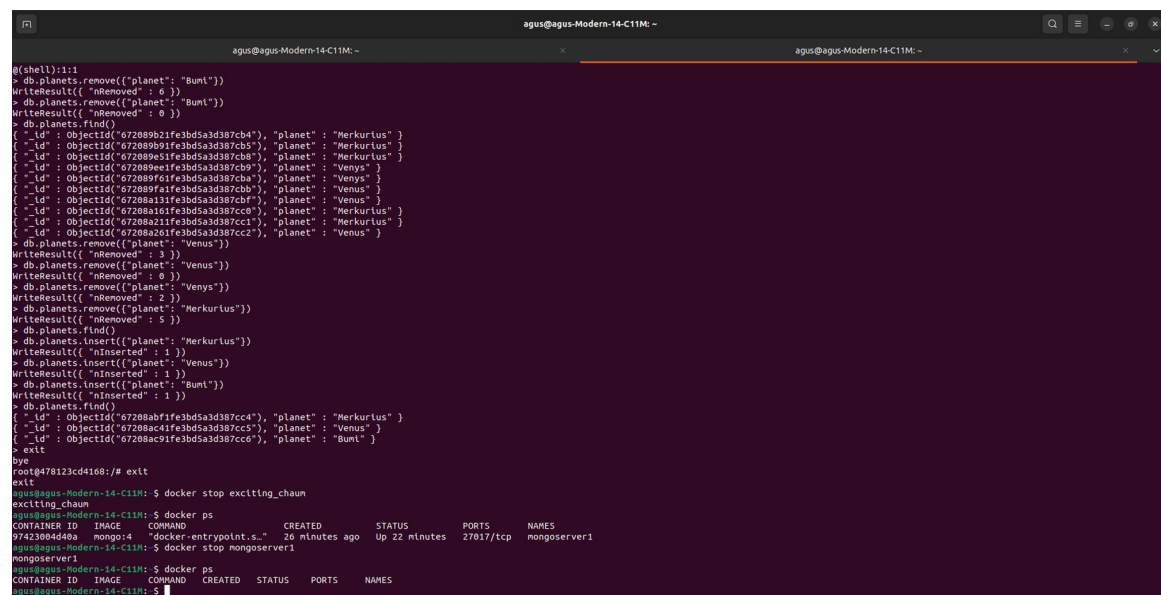
docker stop exciting_chaum



```
agus@agus-Modern-14-C11M: ~  
WriteResult({ "nRemoved" : 2 })  
> db.planets.remove({"planet": "Merkurius"})  
WriteResult({ "nRemoved" : 5 })  
> db.planets.find()  
> db.planets.insert({"planet": "Merkurius"})  
WriteResult({ "nInserted" : 1 })  
> db.planets.insert({"planet": "Venus"})  
WriteResult({ "nInserted" : 1 })  
> db.planets.insert({"planet": "Bumi"})  
WriteResult({ "nInserted" : 1 })  
> db.planets.find()  
{ "_id" : ObjectId("67208abf1fe3bd5a3d387cc4"), "planet" : "Merkurius" }  
{ "_id" : ObjectId("67208ac41fe3bd5a3d387cc5"), "planet" : "Venus" }  
{ "_id" : ObjectId("67208ac91fe3bd5a3d387cc6"), "planet" : "Bumi" }  
> exit  
bye  
root@478123cd4168:/# exit  
exit  
agus@agus-Modern-14-C11M:~$ docker stop exciting_chaum  
exciting_chaum  
agus@agus-Modern-14-C11M:~$
```

(Note: Sesuaikan dengan nama container yang Kita buat).

26. Lalu Kita verifikasi apakah container yang sudah Kita konfigurasi sebelumnya benar-benar berhenti atau tidak dengan menjalankan command berikut.



```
agus@agus-Modern-14-C11M: ~  
@ (shell):~$  
> db.planets.remove({"planet": "Bumi"})  
WriteResult({ "nRemoved" : 6 })  
> db.planets.remove({"planet": "Bumi"})  
WriteResult({ "nRemoved" : 0 })  
> db.planets.find()  
{ "_id" : ObjectId("672089b21fe3bd5a3d387cb4"), "planet" : "Merkurius" }  
{ "_id" : ObjectId("672089b31fe3bd5a3d387cb5"), "planet" : "Merkurius" }  
{ "_id" : ObjectId("672089e51fe3bd5a3d387cb6"), "planet" : "Merkurius" }  
{ "_id" : ObjectId("672089ee1fe3bd5a3d387cb7"), "planet" : "Venus" }  
{ "_id" : ObjectId("672089f1fe3bd5a3d387cb8"), "planet" : "Venus" }  
{ "_id" : ObjectId("672089fa1fe3bd5a3d387cb9"), "planet" : "Venus" }  
{ "_id" : ObjectId("67208a131fe3bd5a3d387cb0"), "planet" : "Venus" }  
{ "_id" : ObjectId("67208a161fe3bd5a3d387cb1"), "planet" : "Merkurius" }  
{ "_id" : ObjectId("67208a211fe3bd5a3d387cb2"), "planet" : "Merkurius" }  
{ "_id" : ObjectId("67208a261fe3bd5a3d387cb3"), "planet" : "Venus" }  
> db.planets.remove({"planet": "Venus"})  
WriteResult({ "nRemoved" : 3 })  
> db.planets.remove({"planet": "Venus"})  
WriteResult({ "nRemoved" : 0 })  
> db.planets.remove({"planet": "Venus"})  
WriteResult({ "nRemoved" : 2 })  
> db.planets.remove({"planet": "Merkurius"})  
WriteResult({ "nRemoved" : 5 })  
> db.planets.find()  
> db.planets.insert({"planet": "Merkurius"})  
WriteResult({ "nInserted" : 1 })  
> db.planets.insert({"planet": "Venus"})  
WriteResult({ "nInserted" : 1 })  
> db.planets.insert({"planet": "Bumi"})  
WriteResult({ "nInserted" : 1 })  
> db.planets.find()  
{ "_id" : ObjectId("67208abf1fe3bd5a3d387cc4"), "planet" : "Merkurius" }  
{ "_id" : ObjectId("67208ac41fe3bd5a3d387cc5"), "planet" : "Venus" }  
{ "_id" : ObjectId("67208ac91fe3bd5a3d387cc6"), "planet" : "Bumi" }  
> exit  
bye  
root@478123cd4168:/# exit  
exit  
agus@agus-Modern-14-C11M:~$ docker stop exciting_chaum  
exciting_chaum  
agus@agus-Modern-14-C11M:~$ docker ps  
CONTAINER ID   IMAGE     COMMAND                  CREATED        STATUS        PORTS        NAMES  
9742380d4d0a   mongo:4   "docker-entrypoint.s..." 26 minutes ago Up 22 minutes 27017/tcp    mongoserver1  
agus@agus-Modern-14-C11M:~$ docker stop mongoserver1  
mongoserver1  
agus@agus-Modern-14-C11M:~$ docker ps  
CONTAINER ID   IMAGE     COMMAND                  CREATED        STATUS        PORTS        NAMES  
agus@agus-Modern-14-C11M:~$
```

Terlihat bahwa tidak ada docker container yang sedang berjalan.

27. Kemudian Kita buatlah docker container yang baru dengan menggunakan image mongo yang sudah Kita pull sebelumnya dengan nama container yang Kita inginkan. Setelah itu, pastikan bahwa docker container tersebut berjalan dengan baik.

```
agus@agus-Modern-14-C11M: ~  
{ "_id" : ObjectId("67208abf1fe3bd5a3d387cc4"), "planet" : "Merkurius" }  
{ "_id" : ObjectId("67208ac41fe3bd5a3d387cc5"), "planet" : "Venus" }  
{ "_id" : ObjectId("67208ac91fe3bd5a3d387cc6"), "planet" : "Bumi" }  
> exit  
bye  
root@478123cd4168:/# exit  
exit  
agus@agus-Modern-14-C11M:~$ docker stop exciting_chaum  
exciting_chaum  
agus@agus-Modern-14-C11M:~$ docker ps  
CONTAINER ID   IMAGE     COMMAND                  CREATED        STATUS        PORTS  
NAMES  
97423004d40a   mongo:4   "docker-entrypoint.s..." 26 minutes ago Up 22 minutes 27017/  
tcp   mongoserver1  
agus@agus-Modern-14-C11M:~$ docker stop mongoserver1  
mongoserver1  
agus@agus-Modern-14-C11M:~$ docker ps  
CONTAINER ID   IMAGE     COMMAND                  CREATED        STATUS        PORTS        NAMES  
agus@agus-Modern-14-C11M:~$ docker container create --name mongoserver001 mongo:4  
2aebc7bace1abd4807b810a6d99742b87f163be6d797cb802c7ef96677a06da8  
agus@agus-Modern-14-C11M:~$
```

```
agus@agus-Modern-14-C11M: ~  
{ "_id" : ObjectId("67208ac91fe3bd5a3d387cc6"), "planet" : "Bumi" }  
> exit  
bye  
root@478123cd4168:/# exit  
exit  
agus@agus-Modern-14-C11M:~$ docker stop exciting_chaum  
exciting_chaum  
agus@agus-Modern-14-C11M:~$ docker ps  
CONTAINER ID   IMAGE     COMMAND                  CREATED        STATUS        PORTS  
NAMES  
97423004d40a   mongo:4   "docker-entrypoint.s..." 26 minutes ago Up 22 minutes 27017/  
tcp   mongoserver1  
agus@agus-Modern-14-C11M:~$ docker stop mongoserver1  
mongoserver1  
agus@agus-Modern-14-C11M:~$ docker ps  
CONTAINER ID   IMAGE     COMMAND                  CREATED        STATUS        PORTS        NAMES  
agus@agus-Modern-14-C11M:~$ docker container create --name mongoserver001 mongo:4  
2aebc7bace1abd4807b810a6d99742b87f163be6d797cb802c7ef96677a06da8  
agus@agus-Modern-14-C11M:~$ docker start mongoserver001  
mongoserver001  
agus@agus-Modern-14-C11M:~$
```

```
agus@agus-Modern-14-C11M: ~  
https://docs.mongodb.com/  
Questions? Try the MongoDB Developer Community Forums  
https://community.mongodb.com  
---  
The server generated these startup warnings when booting:  
2024-10-29T07:17:42.772+00:00: Using the XFS filesystem is strongly recommended with the WiredTiger storage engine. See http://  
dochub.mongodb.org/core/prodnotes-filesystem  
2024-10-29T07:17:42.909+00:00: Access control is not enabled for the database. Read and write access to data and configuration  
is unrestricted  
---  
> exit  
bye  
root@2aebc7bace1a:/# exit  
exit  
agus@agus-Modern-14-C11M:~$ docker ps -a  
CONTAINER ID   IMAGE     COMMAND                  CREATED    STATUS      PORTS      NAMES  
2aebc7bace1a   mongo:4   "docker-entrypoint.s..." 2 minutes ago Up 2 minutes      27017/tcp   mongoserver001  
97423004d40a   mongo:4   "docker-entrypoint.s..." 30 minutes ago Exited (0) 3 minutes ago  
478123cd4168   mongo:4   "docker-entrypoint.s..." 34 minutes ago Exited (0) 5 minutes ago  
c5a126f80b7e   hello-world "/hello"                46 minutes ago Exited (0) 46 minutes ago  
agus@agus-Modern-14-C11M:~$
```

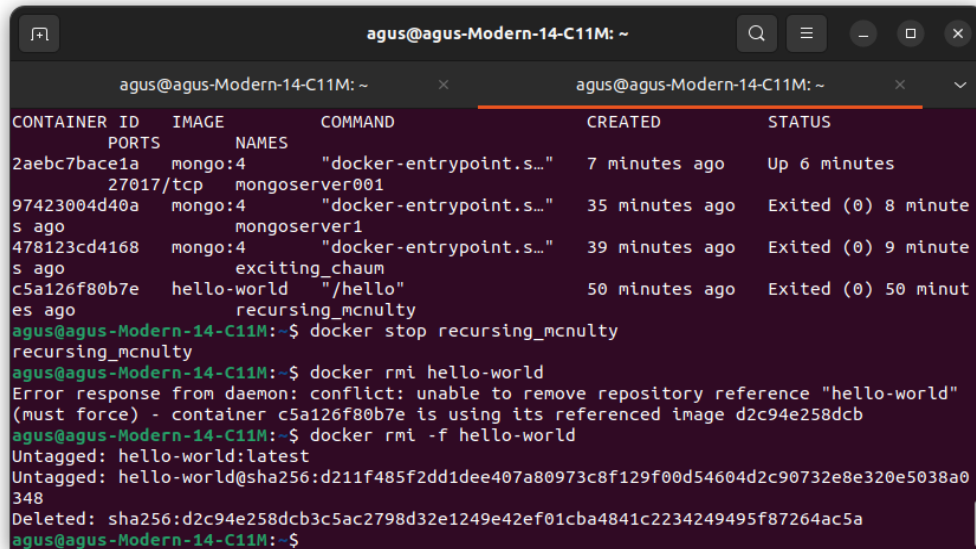
28. Kemudian masuklah kedalam container yang baru Kita buat sebelumnya, setelah itu lihatlah list database yang tersedia apakah sama dengan container yang sebelumnya atau tidak.

```
agus@agus-Modern-14-C11M: ~  
27017/tcp   mongoserver001  
97423004d40a   mongo:4   "docker-entrypoint.s..." 30 minutes ago Exited (0) 3 minute  
s ago      mongoserver1  
478123cd4168   mongo:4   "docker-entrypoint.s..." 34 minutes ago Exited (0) 5 minute  
s ago      exciting_chaum  
c5a126f80b7e   hello-world "/hello"                46 minutes ago Exited (0) 46 minut  
es ago      recursing_mcnulty  
agus@agus-Modern-14-C11M:~$ sudo docker exec -it mongoserver001 bash  
root@2aebc7bace1a:/# mongo  
MongoDB shell version v4.4.29  
connecting to: mongodb://127.0.0.1:27017/?compressors=disabled&gssapiServiceName=mongodb  
Implicit session: session { "id" : UUID("617489d9-8644-4057-b761-961b42ae6d95") }  
MongoDB server version: 4.4.29  
---  
The server generated these startup warnings when booting:  
2024-10-29T07:17:42.772+00:00: Using the XFS filesystem is strongly recommended wi  
th the WiredTiger storage engine. See http://dochub.mongodb.org/core/prodnotes-filesystem  
2024-10-29T07:17:42.909+00:00: Access control is not enabled for the database. Rea  
d and write access to data and configuration is unrestricted  
---  
> |
```

Terlihat dari gambar berikut, bahwa konfigurasi yang ada pada container sebelumnya hanya berlaku pada container tersebut dan tidak berlaku pada container lain.

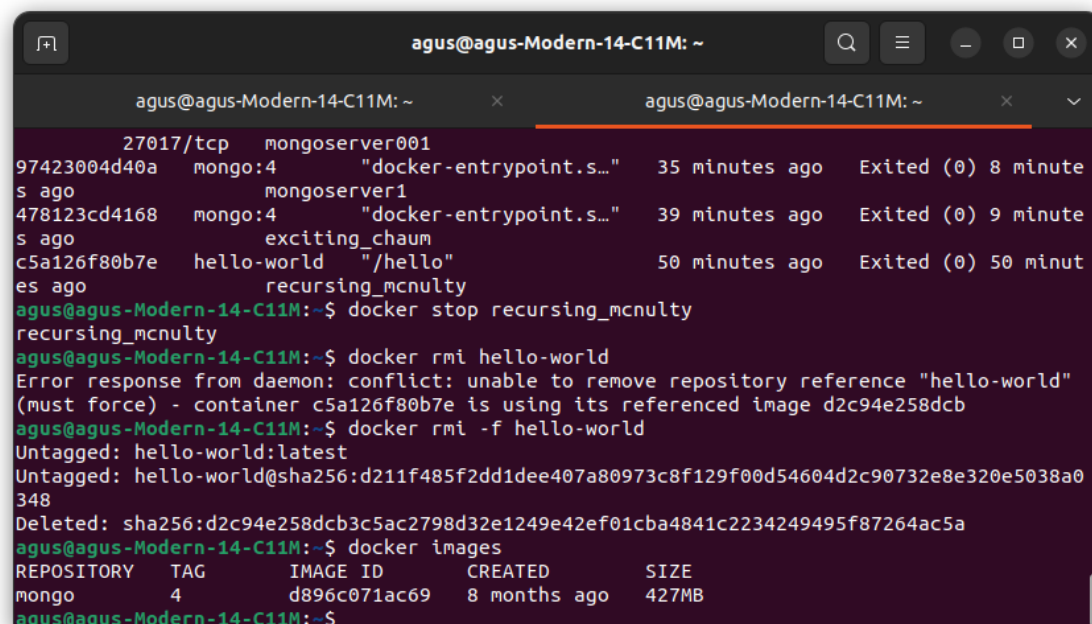
29. Jika Kita ingin menghapus docker image, Kita bisa terlebih dahulu memberhentikan dan menghapus docker container yang memiliki hubungan dengan docker image yang ingin dihapus. Setelah itu, Kita dapat menjalankan command berikut.

docker rmi -f hello-world



```
agus@agus-Modern-14-C11M: ~  
CONTAINER ID   IMAGE      COMMAND                  CREATED        STATUS  
2aebc7bace1a   mongo:4    "docker-entrypoint.s..." 7 minutes ago  Up 6 minutes  
97423004d40a   mongo:4    "docker-entrypoint.s..." 35 minutes ago Exited (0) 8 minute  
s ago        mongoserver1  
478123cd4168   mongo:4    "docker-entrypoint.s..." 39 minutes ago Exited (0) 9 minute  
s ago        exciting_chaum  
c5a126f80b7e   hello-world "/hello"                50 minutes ago Exited (0) 50 minut  
es ago        recursing_mcnulty  
agus@agus-Modern-14-C11M:~$ docker stop recursing_mcnulty  
recursing_mcnulty  
agus@agus-Modern-14-C11M:~$ docker rmi hello-world  
Error response from daemon: conflict: unable to remove repository reference "hello-world"  
(must force) - container c5a126f80b7e is using its referenced image d2c94e258dcb  
agus@agus-Modern-14-C11M:~$ docker rmi -f hello-world  
Untagged: hello-world:latest  
Untagged: hello-world@sha256:d211f485f2dd1dee407a80973c8f129f00d54604d2c90732e8e320e5038a0  
348  
Deleted: sha256:d2c94e258dcb3c5ac2798d32e1249e42ef01cba4841c2234249495f87264ac5a  
agus@agus-Modern-14-C11M:~$
```

30. Kemudian Kita pastikan apakah docker imagenya sudah terhapus atau tidak dengan menjalankan command berikut.



```
agus@agus-Modern-14-C11M: ~  
27017/tcp mongoserver001  
97423004d40a mongo:4 "docker-entrypoint.s..." 35 minutes ago Exited (0) 8 minute  
s ago        mongoserver1  
478123cd4168 mongo:4 "docker-entrypoint.s..." 39 minutes ago Exited (0) 9 minute  
s ago        exciting_chaum  
c5a126f80b7e hello-world "/hello"                50 minutes ago Exited (0) 50 minut  
es ago        recursing_mcnulty  
agus@agus-Modern-14-C11M:~$ docker stop recursing_mcnulty  
recursing_mcnulty  
agus@agus-Modern-14-C11M:~$ docker rmi hello-world  
Error response from daemon: conflict: unable to remove repository reference "hello-world"  
(must force) - container c5a126f80b7e is using its referenced image d2c94e258dcb  
agus@agus-Modern-14-C11M:~$ docker rmi -f hello-world  
Untagged: hello-world:latest  
Untagged: hello-world@sha256:d211f485f2dd1dee407a80973c8f129f00d54604d2c90732e8e320e5038a0  
348  
Deleted: sha256:d2c94e258dcb3c5ac2798d32e1249e42ef01cba4841c2234249495f87264ac5a  
agus@agus-Modern-14-C11M:~$ docker images  
REPOSITORY    TAG       IMAGE ID       CREATED        SIZE  
mongo         4         d896c071ac69   8 months ago   427MB  
agus@agus-Modern-14-C11M:~$
```

31. Jika Kita ingin menghapus container yang Kita buat, Kita bisa terlebih dahulu memberhentikan docker container yang sedang berjalan, lalu Kita jalankan command berikut.

docker rm recursing_mcnulty

```
agus@agus-Modern-14-C11M: ~
s ago          mongoserver1
478123cd4168   mongo:4      "docker-entrypoint.s..." 39 minutes ago   Exited (0) 9 minute
s ago          exciting_chaum
c5a126f80b7e   hello-world  "/hello"          50 minutes ago   Exited (0) 50 minut
es ago         recursing_mcnulty
agus@agus-Modern-14-C11M:~$ docker stop recursing_mcnulty
recursing_mcnulty
agus@agus-Modern-14-C11M:~$ docker rmi hello-world
Error response from daemon: conflict: unable to remove repository reference "hello-world"
(must force) - container c5a126f80b7e is using its referenced image d2c94e258dc
agus@agus-Modern-14-C11M:~$ docker rmi -f hello-world
Untagged: hello-world:latest
Untagged: hello-world@sha256:d211f485f2dd1dee407a80973c8f129f00d54604d2c90732e8e320e5038a0
348
Deleted: sha256:d2c94e258dc3c5ac2798d32e1249e42ef01c4841c2234249495f87264ac5a
agus@agus-Modern-14-C11M:~$ docker images
REPOSITORY TAG IMAGE ID CREATED SIZE
mongo 4 d896c071ac69 8 months ago 427MB
agus@agus-Modern-14-C11M:~$ docker rm recursing_mcnulty
recursing_mcnulty
agus@agus-Modern-14-C11M:~$
```

32. Lalu Kita pastikan apakah docker container sudah terhapus atau tidak dengan menjalankan command berikut.

```
agus@agus-Modern-14-C11M: ~
CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES
2aebc7bace1a mongo:4 "docker-entrypoint.s..." 2 minutes ago Up 2 minutes 27017/tcp mongoserver001
9742380440a mongo:4 "docker-entrypoint.s..." 39 minutes ago Exited (0) 3 minutes ago mongoserver1
478123cd4168 mongo:4 "docker-entrypoint.s..." 34 minutes ago Exited (0) 5 minutes ago exciting_chaum
c5a126f80b7e hello-world "/hello" 46 minutes ago Exited (0) 46 minutes ago recursing_mcnulty

agus@agus-Modern-14-C11M:~$ sudo docker exec -it mongoserver001 bash
root@2aebc7bace1a:/# mongo
MongoDB shell version v4.4.29
connecting to: mongos://127.0.0.1:27017/?compressors=disabled&sslapiServiceName=mongosdb
Implicit session: session { "id" : UUID("617489d9-8644-4057-b761-961b42aed95") }
MongoDB server version: 4.4.29

The server generated these startup warnings when booting:
  2024-10-29T07:17:42.772+00:00: Using the XFS filesystem is strongly recommended with the WiredTiger storage engine. See http://dochub.mongodb.org/core/prodnotes-filesystem
  2024-10-29T07:17:42.909+00:00: Access control is not enabled for the database. Read and write access to data and configuration is unrestricted
...
> exit
bye
root@2aebc7bace1a:/# exit
bash: exit: command not found
root@2aebc7bace1a:/# exit
exit
agus@agus-Modern-14-C11M:~$ docker rmi hello-world
Error response from daemon: conflict: unable to remove repository reference "hello-world" (must force) - container c5a126f80b7e is using its referenced image d2c94e258dc
agus@agus-Modern-14-C11M:~$ docker ps -a
CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES
2aebc7bace1a mongo:4 "docker-entrypoint.s..." 7 minutes ago Up 6 minutes 27017/tcp mongoserver001
9742380440a mongo:4 "docker-entrypoint.s..." 35 minutes ago Exited (0) 8 minutes ago mongoserver1
478123cd4168 mongo:4 "docker-entrypoint.s..." 39 minutes ago Exited (0) 9 minutes ago exciting_chaum
c5a126f80b7e hello-world "/hello" 50 minutes ago Exited (0) 50 minutes ago recursing_mcnulty
agus@agus-Modern-14-C11M:~$ docker stop recursing_mcnulty
recursing_mcnulty
agus@agus-Modern-14-C11M:~$ docker rmi hello-world
Error response from daemon: conflict: unable to remove repository reference "hello-world" (must force) - container c5a126f80b7e is using its referenced image d2c94e258dc
agus@agus-Modern-14-C11M:~$ docker rmi -f hello-world
Untagged: hello-world:latest
Untagged: hello-world@sha256:d211f485f2dd1dee407a80973c8f129f00d54604d2c90732e8e320e5038a0348
Deleted: sha256:d2c94e258dc3c5ac2798d32e1249e42ef01c4841c2234249495f87264ac5a
agus@agus-Modern-14-C11M:~$ docker images
REPOSITORY TAG IMAGE ID CREATED SIZE
mongo 4 d896c071ac69 8 months ago 427MB
agus@agus-Modern-14-C11M:~$ docker rm recursing_mcnulty
recursing_mcnulty
agus@agus-Modern-14-C11M:~$ docker ps -a
CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES
2aebc7bace1a mongo:4 "docker-entrypoint.s..." 18 minutes ago Up 9 minutes 27017/tcp mongoserver001
9742380440a mongo:4 "docker-entrypoint.s..." 38 minutes ago Exited (0) 11 minutes ago mongoserver1
478123cd4168 mongo:4 "docker-entrypoint.s..." 42 minutes ago Exited (0) 12 minutes ago exciting_chaum
agus@agus-Modern-14-C11M:~$
```

Terlihat bahwa docker container dengan nama cool_mcnulty sudah tidak ada lagi yang menKitakan bahwa docker container berhasil dihapus.