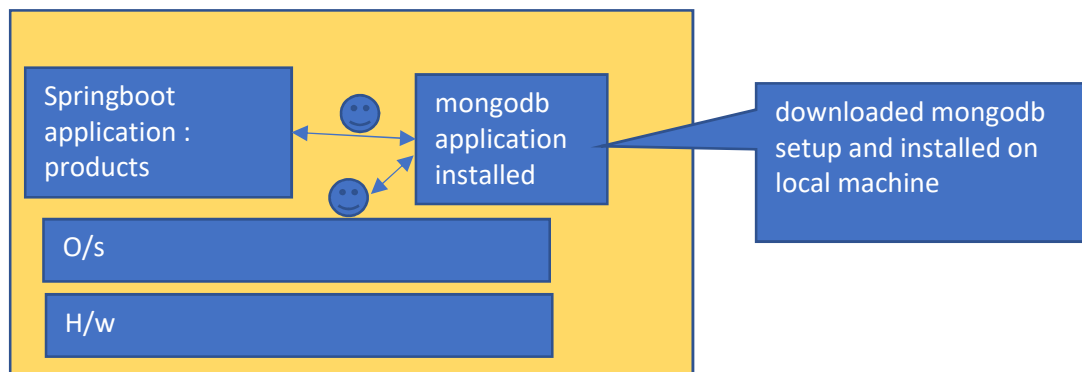
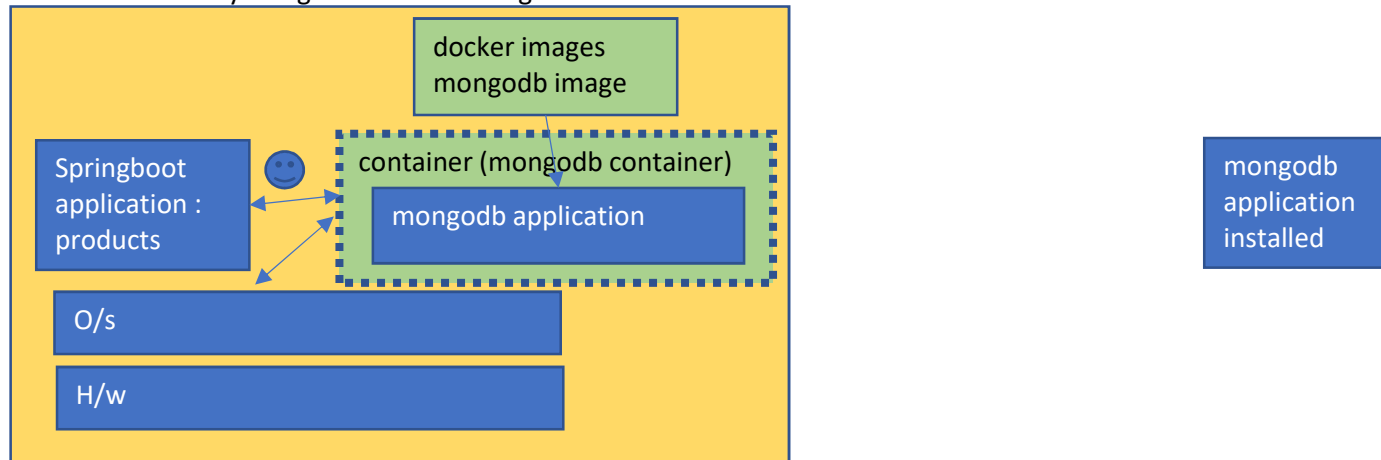


Option 1 install mongodb application
make springboot application to connect with locally installed mongodb

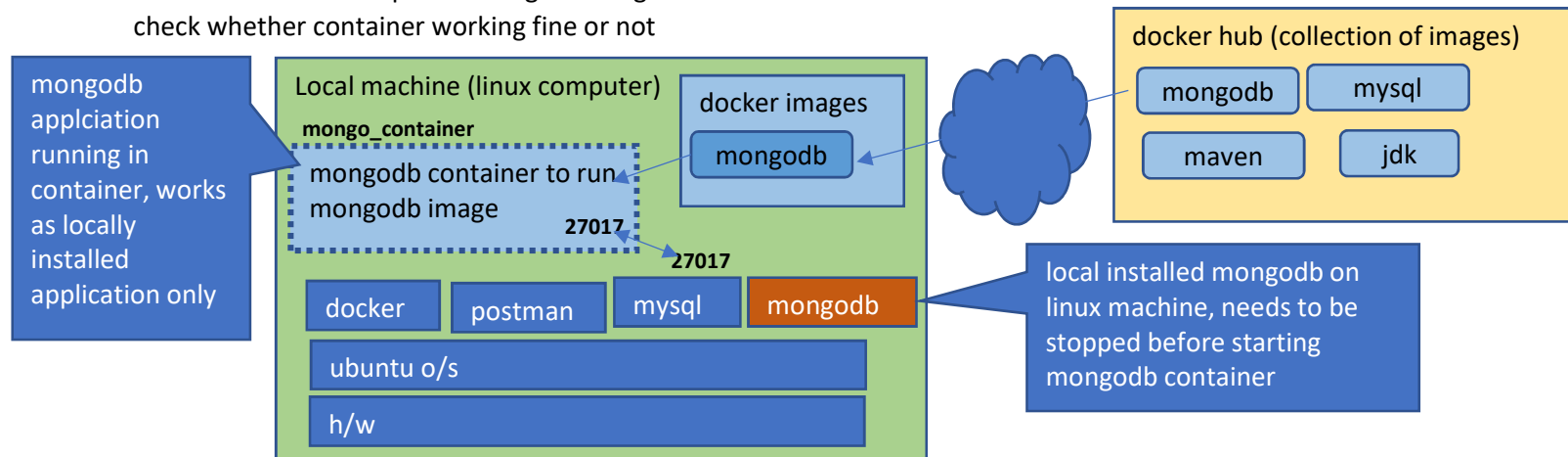


Option 2 pull mongodb image from dockerhub
start container by using downloaded image



Demo 1

Pull mongodb image from docker hub
create container with pulled mongodb image
check whether container working fine or not



Step 1 Login to VM (linux machine)

Step 2 Stop local installed and running mongodb application

sudo service mongod stop

Note: check whether service stopped or not

```
ubuntu@ip-172-31-36-21:~/Desktop$ sudo service mongod stop
ubuntu@ip-172-31-36-21:~/Desktop$ mongo
MongoDB shell version v5.0.2
connecting to: mongodb://127.0.0.1:27017/?compressors=disabled&gssapiServiceName=mongodb
Error: couldn't connect to server 127.0.0.1:27017, connection attempt failed: SocketException: Error connecting to 127.0.0.1:27017 :: caused by :: Connection refused :
connect@src/mongo/shell/mongo.js:372:17
@(connect):2:6
exception: connect failed
exiting with code 1
```

Step 3 Pull mongodb image from docker hub

commands

sudo docker images

shows list of docker images available on local machine

```
ubuntu@ip-172-31-36-21:~/Desktop$ sudo docker images
REPOSITORY      TAG              IMAGE ID         CREATED          SIZE
ubuntu@ip-172-31-36-21:~/Desktop$
```

Note: actual docker command to get docker images is '**docker images**'

but \$ user does not have permissions to execute docker commands in linux environment so, **sudo** to be used in order to execute docker commands with required permissions

sudo docker pull mongo:3.4-jessie

pulls mongodb docker image from docker hub to local machine

Note: Make sure required free-space available on linux machine

```
ubuntu@ip-172-31-36-21:~/Desktop$ sudo docker pull mongo:3.4-jessie
3.4-jessie: Pulling from library/mongo
2a639da97f77: Pull complete
073b4f52defe: Pull complete
bce37d0f5c17: Pull complete
379dc19f9963: Pull complete
e44806c61e63: Pull complete
b76faf91d209: Pull complete
dd1d9be5b26b: Pull complete
9420e1982a2f: Pull complete
9ad2432e6a03: Pull complete
a80971ca2409: Pull complete
3a0937743e17: Pull complete
Digest: sha256:b39da8a18a6a9429f964f58d0da883d726f495dce3a00e3a7e67bd89cd16b40c
Status: Downloaded newer image for mongo:3.4-jessie
```

Note: Make sure image downloaded

```
ubuntu@ip-172-31-36-21:~/Desktop$ sudo docker images
REPOSITORY    TAG       IMAGE ID       CREATED        SIZE
mongo         3.4-jessie f97f03a006c7   3 years ago    390MB
ubuntu@ip-172-31-36-21:~/Desktop$
```

Step 4 Start container by using pulled mongo image

`sudo run --name yyyyyy -p 27017:27017 DOCKERIMAGE`

`sudo run --name mongo_container -p 27017:27017 mongo:3.4-jessie`

```
ubuntu@ip-172-31-36-21:~/Desktop$ sudo docker run --name mongo_container -p 27017:27017 mongo:3.4-jessie
2022-10-26T06:43:48.443+0000 I CONTROL [initandlisten] MongoDB starting : pid=1 port=27017 dbpath=/data/db
64-bit host=b35327fceb6
2022-10-26T06:43:48.443+0000 I CONTROL [initandlisten] db version v3.4.20
2022-10-26T06:43:48.444+0000 I CONTROL [initandlisten] git version: 447847d93d6e0a21b018d5df45528e815c7c13
d8
2022-10-26T06:43:48.444+0000 I CONTROL [initandlisten] OpenSSL version: OpenSSL 1.0.1t 3 May 2016
2022-10-26T06:43:48.444+0000 I CONTROL [initandlisten] allocator: tcmalloc
```

`sudo run --name mongo_container -d -p 27017:27017 mongo:3.4-jessie`

container runs in detached mode, prompt will be back in the same terminal

Make sure container started and running

open other terminal window if required

`sudo docker ps -a`

```
ubuntu@ip-172-31-36-21:~/Desktop$ sudo docker ps -a
CONTAINER ID   IMAGE          COMMAND                  CREATED        STATUS        PORTS                               NAMES
b35327fceb6   mongo:3.4-jessie "docker-entrypoint.s..." 3 minutes ago  Up 3 minutes  0.0.0.0:27017->27017/tcp, :::27017->27017/tcp  mongo_container
```

Step 5 check mongo container by logging into mongo

```
ubuntu@ip-172-31-36-21:~/Desktop$ mongo
MongoDB shell version v5.0.2
connecting to: mongodb://127.0.0.1:27017/?compressors=disabled&qssapi=Server
WARNING: No implicit session: Logical Sessions are only supported on server
Implicit session: dummy session
MongoDB server version: 3.4.20
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
an upcoming release.
We recommend you begin using "mongosh".
For installation instructions, see
https://docs.mongodb.com/mongodb-shell/install/
=====
---
The server generated these startup warnings when booting:
2022-10-26T06:43:48.450+0000 I STORAGE [initandlisten]
2022-10-26T06:43:48.451+0000 I STORAGE [initandlisten] ** WARNING: Using
2022-10-26T06:43:48.451+0000 I STORAGE [initandlisten] ** See ht
2022-10-26T06:43:48.520+0000 I CONTROL [initandlisten]
2022-10-26T06:43:48.520+0000 I CONTROL [initandlisten] ** WARNING: Access
2022-10-26T06:43:48.521+0000 I CONTROL [initandlisten] ** Read a
2022-10-26T06:43:48.521+0000 I CONTROL [initandlisten]
---
> show dbs;
admin 0.000GB
local 0.000GB
```