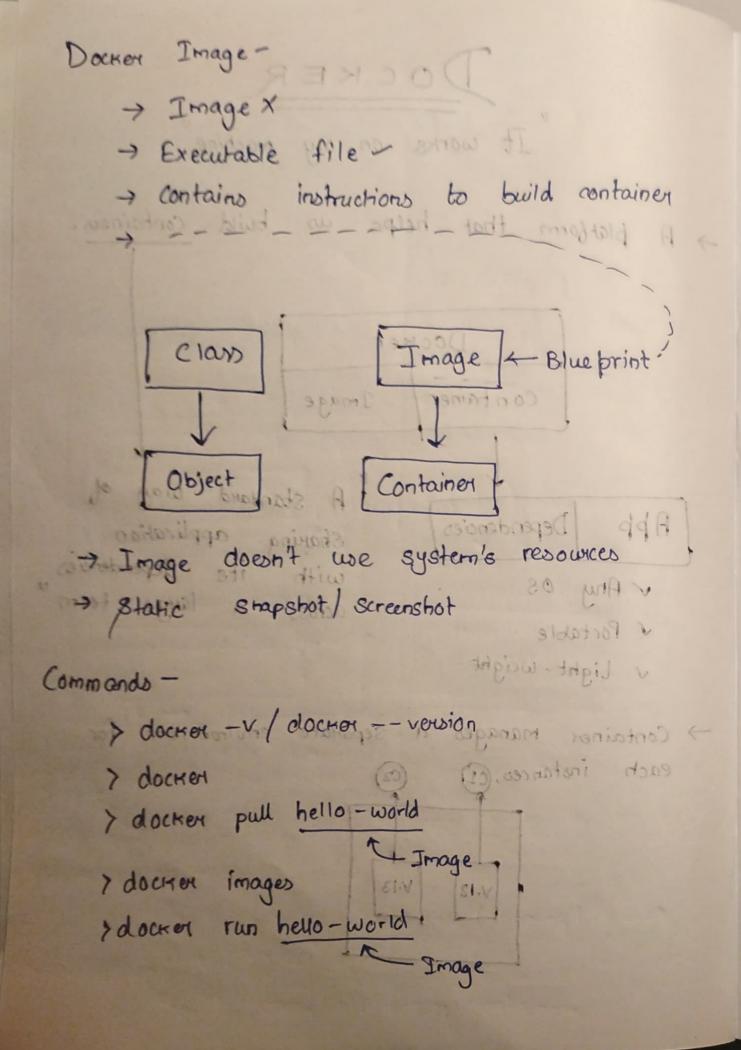
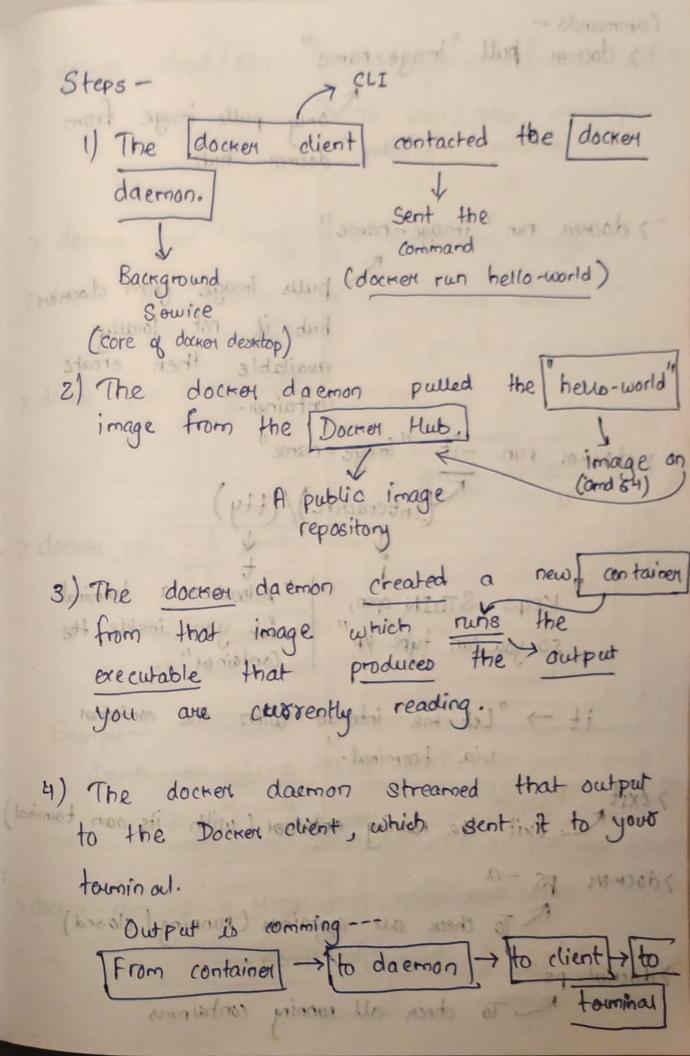


each instances. (1) (2)

V.12

V.13





Commands -> docker bull "image-name Sorry pulls image from docker hub > documen run "image-name" pulls image from docker hub if not locally available then create Container. image from i (Interactive)/(tty) Keeps STDIN open, "Allocated a towninal so you can type 'p" for your inside the contained" it -> "Let me interact with the contained via terminal. 4) The docker dosmon street the running container (with its own tourinal) 7 docker ps -a tourin out. To check all container (running | closed) Her contained to desmon to to dist To check all running containous

> docker start / stop "	container - rame "or "container - id"
,	To start stop already
	existing container.
Docken Confaired	Without Machine
1	11
> docken rmi "image-r	id Remore image
t docket rm "container - na	me" - Remove motainer
- originally for Linux.	d 30 mong : historidans &
but we now able to	17
> doction pull "image-name	: version
commands is only	pull image with
due to presente of	Specific reusion
docken desktop.	1-0 41
7 docker run -d "image	I I I I I I I I I I I I I I I I I I I
doings, which	ach borned 20 result
	u containers runs on
attached mod	e anombroll
Europe and a metro	
Example—	MYSQL -ROOT_PASSWORD = secret
defact env	aviable & mane & mane
> docken run -d -e Mysal	-ROOT _PASSWORD = Secret
Process - tend instation	mysql-older mysql:8.0
	new name image
	new name

-> Difference between virtual metines and doction Container.

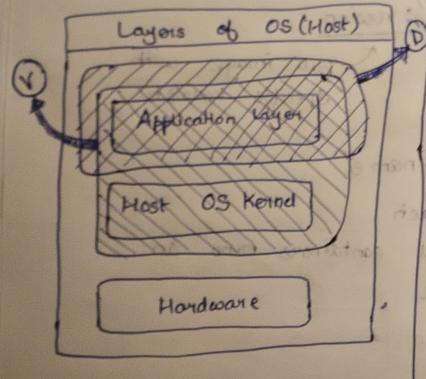
Virtual Machines

Docker Container

docted the contained to

-> Size: large

-> Compatability: Evory OS



- Architecture: Hypervisor - based

its own 08

Isolation: Full 05-level : Process-level isolation isolation BENDAY W

: Originally for Linux but we are able to run these linux Commands is only due to presence of doction desktop.

Adds a lightweight hypervisor layer, which internally uses a light weight Linux distribution.

: Container - based

-> OS layor: Each VMs has in it. Shares host Os kound

- > Docker uses host Os's kennal, it virtualise Tapplication layor of host.
- > VM virtualise both application layer 4 host 05's Kornel but was its own kornel

virtualization: Application layor : Application layer, this

Kernel we: Own

Boot time: Minutes

Portability & High Less

Speed Slower / More Slower / More complex

Security: High, strong isolation (own kennel)

Host Os Kennel Virtualization of only application layor results in lightweight.

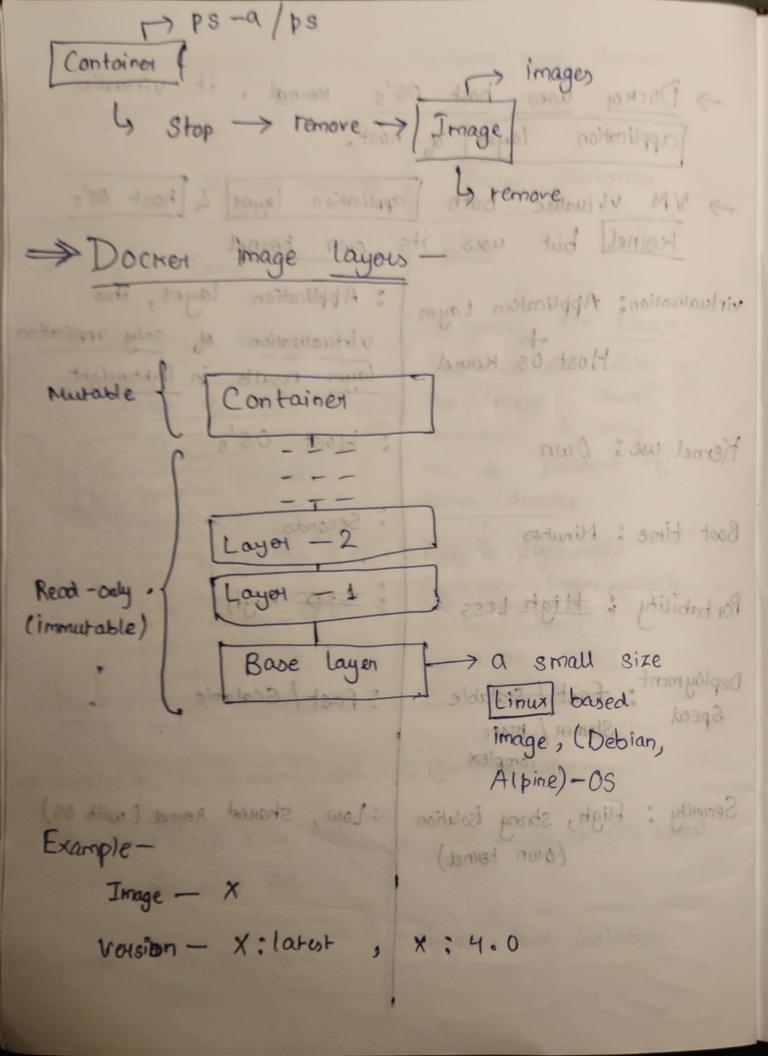
: Host Os's

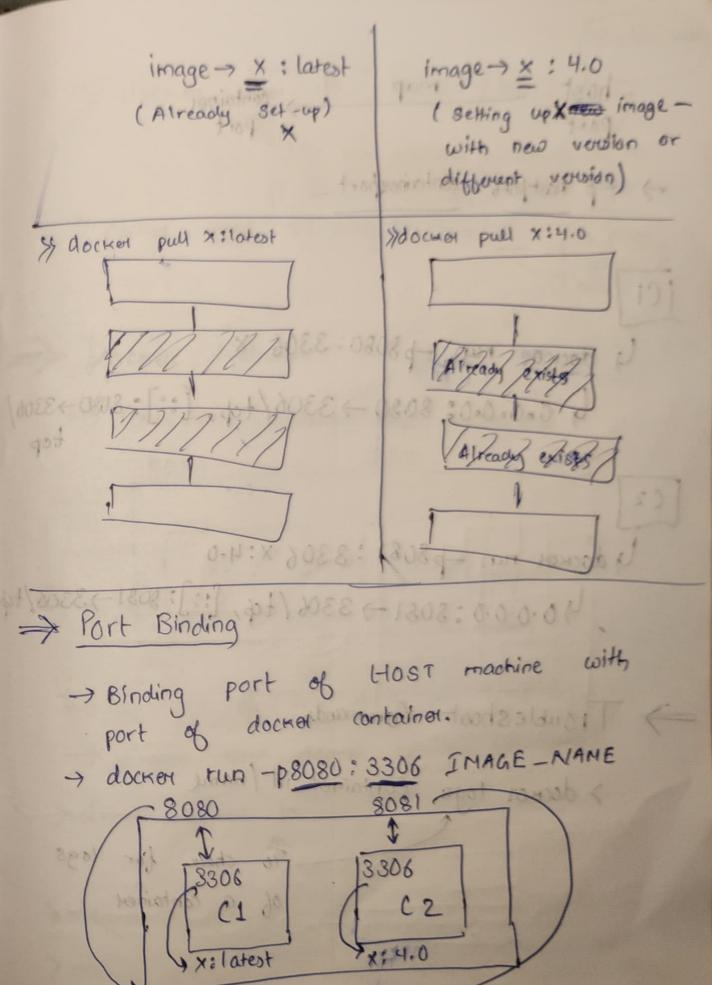
; Secondo.

: ten High

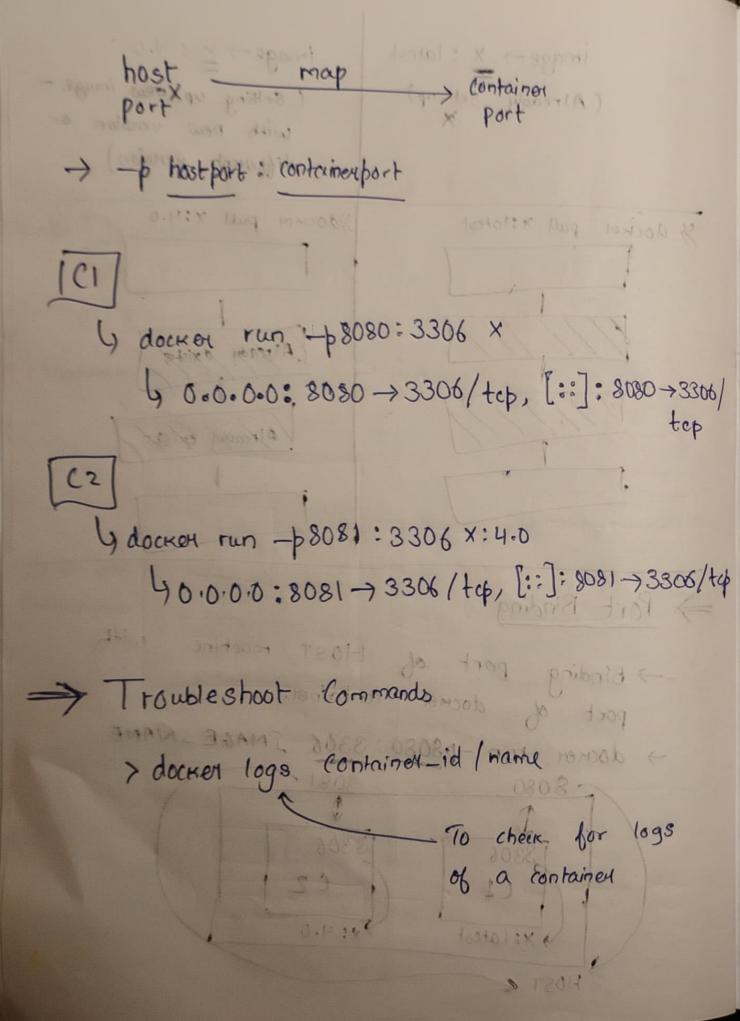
: Fast / Scalable

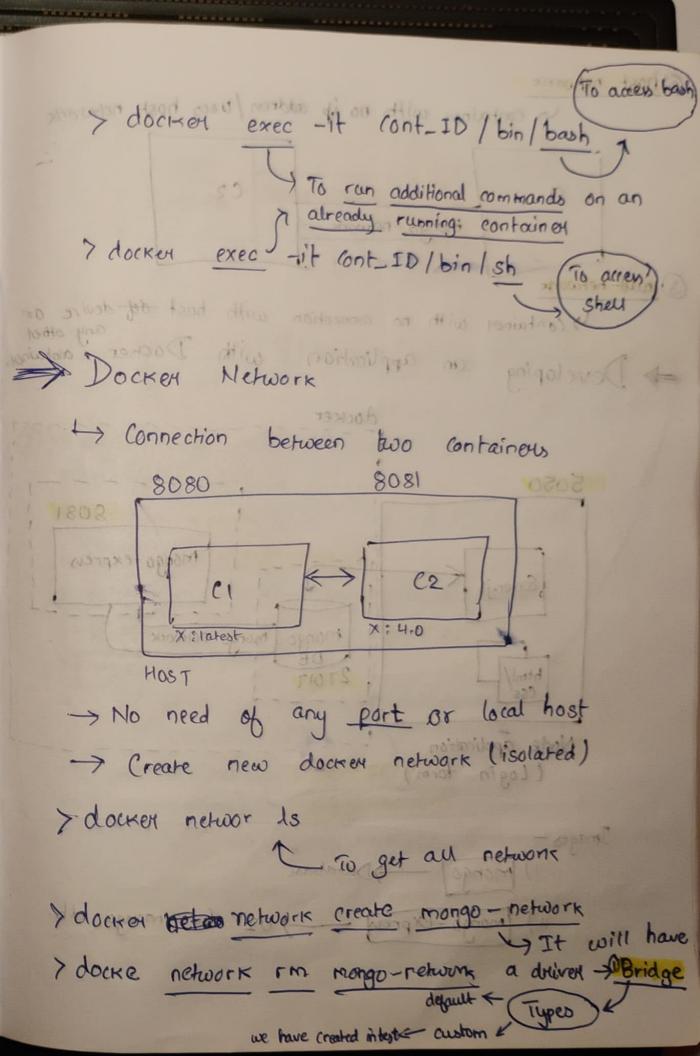
Low, shaked keined (with 05)

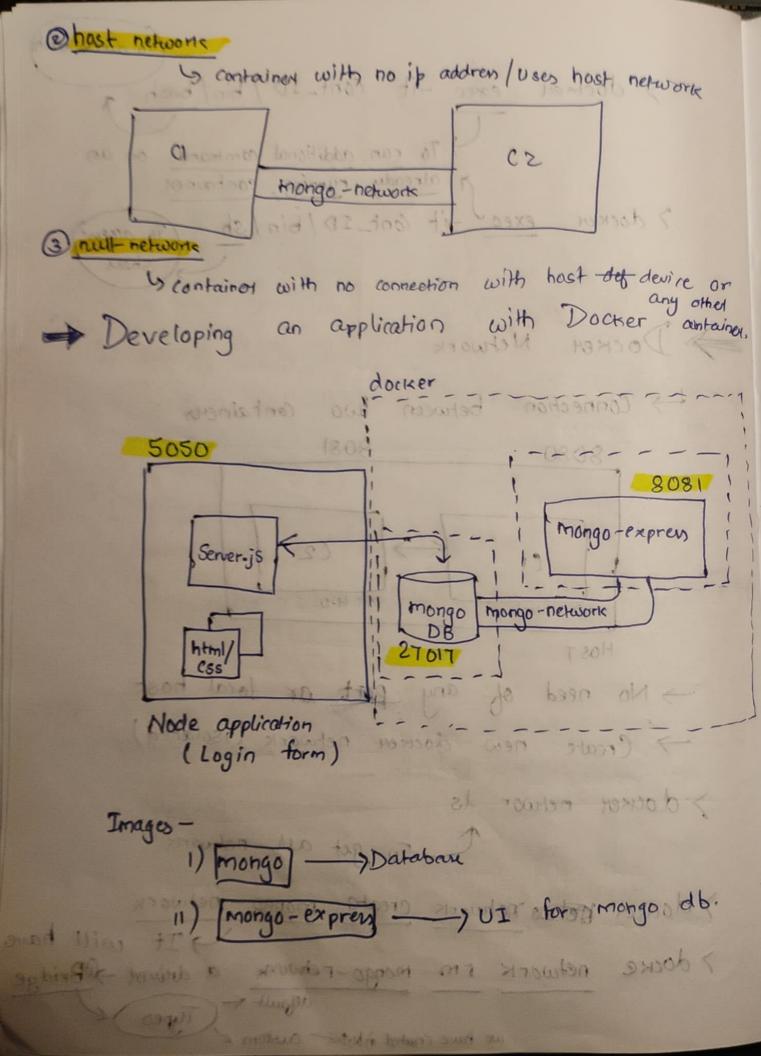


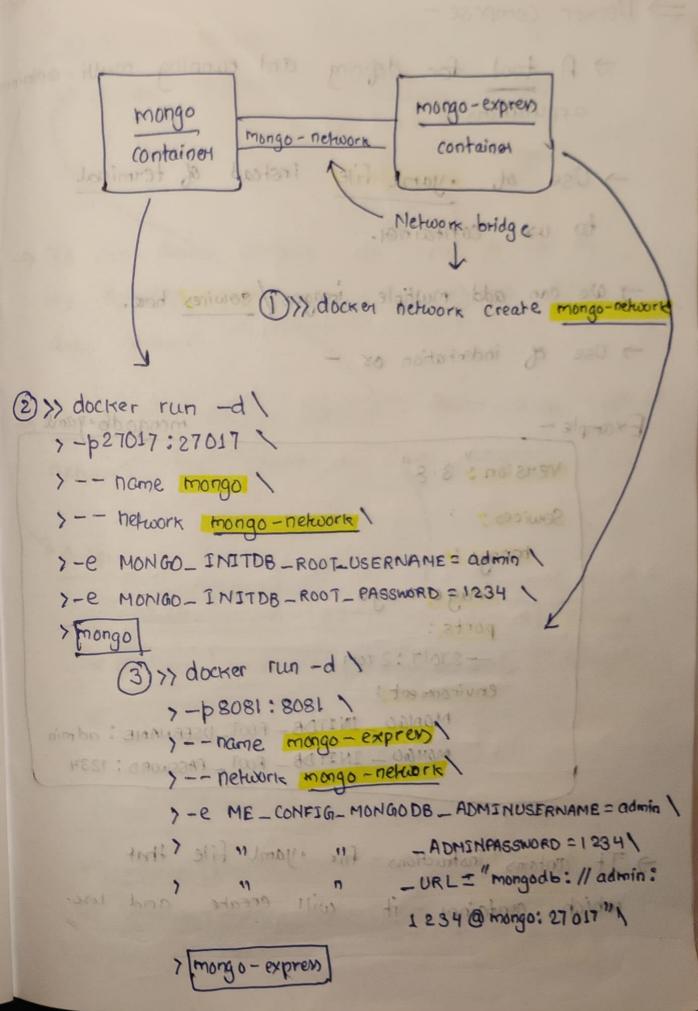


HOST &









→ Docker compose -

> A tool for defining and running multi-container applications. obliga

-) Use ob eyame file instead of terminal to use container.

- we can add multiple images / sowices how.

-> Use of indentation or

Example -Yersion: 3.8"

Sewices:

3-6 MONGO_INTIDB_ROOF, USERMANE: OPPOM

1-6 MONIGO_INITEB_ROOT_Opnom: 9-4

ports:

-27017:27017 b- 1117 -d 11075: 11075

) - e ME _ CONFI (a_ MONIGO DB _ HOMITHUS FRAME = COM

environment; / 1808: 1808 q- 1 MONGO _ IN ITDB _ ROOT _ USERNAME : admin

> - Retwork trongo-networks?

mongodo yaml

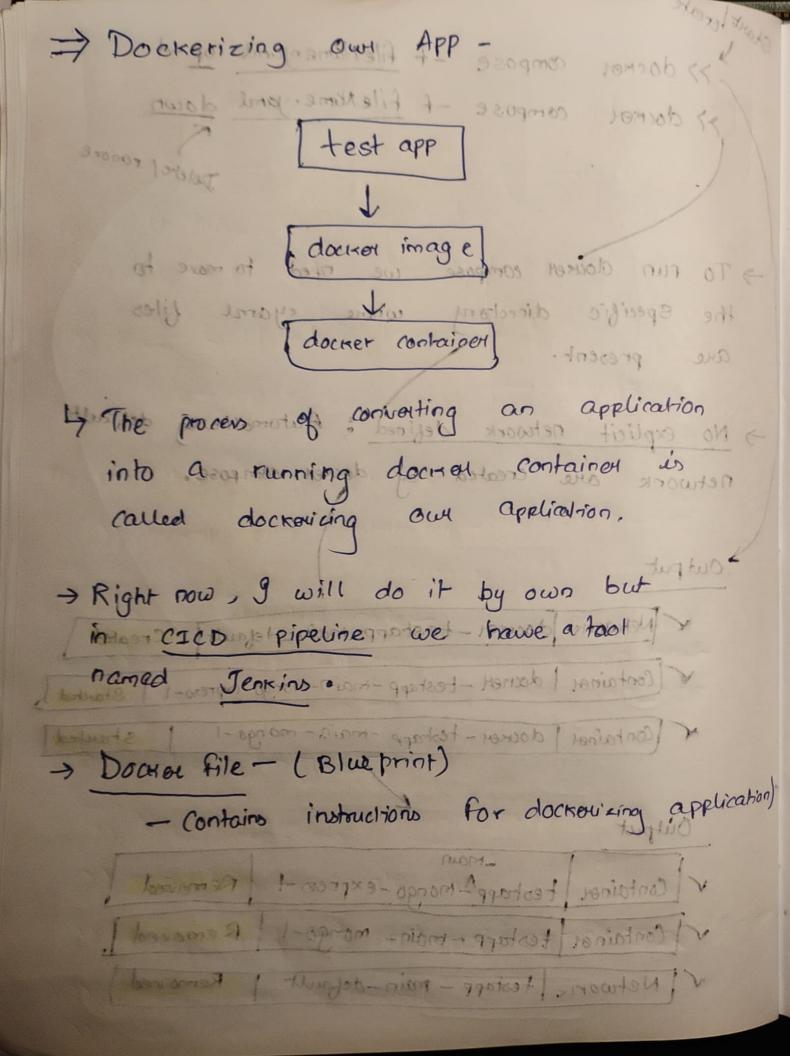
/ opport small -- <

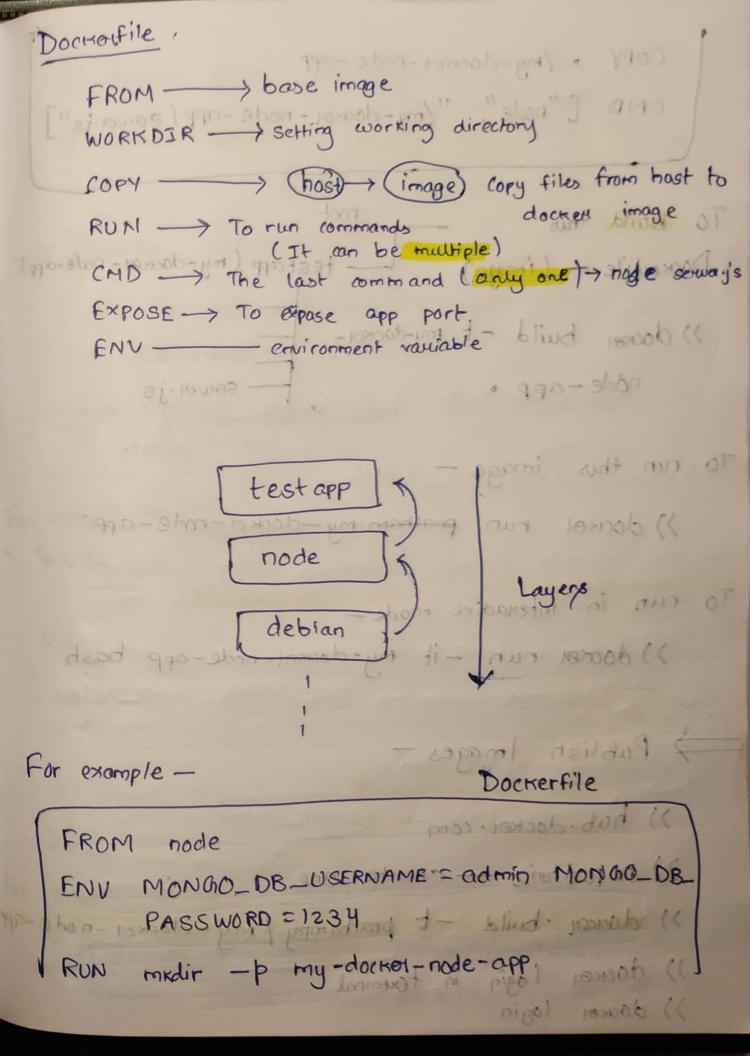
MONGO - INIT DB - ROOT - PASSWORD; 1234

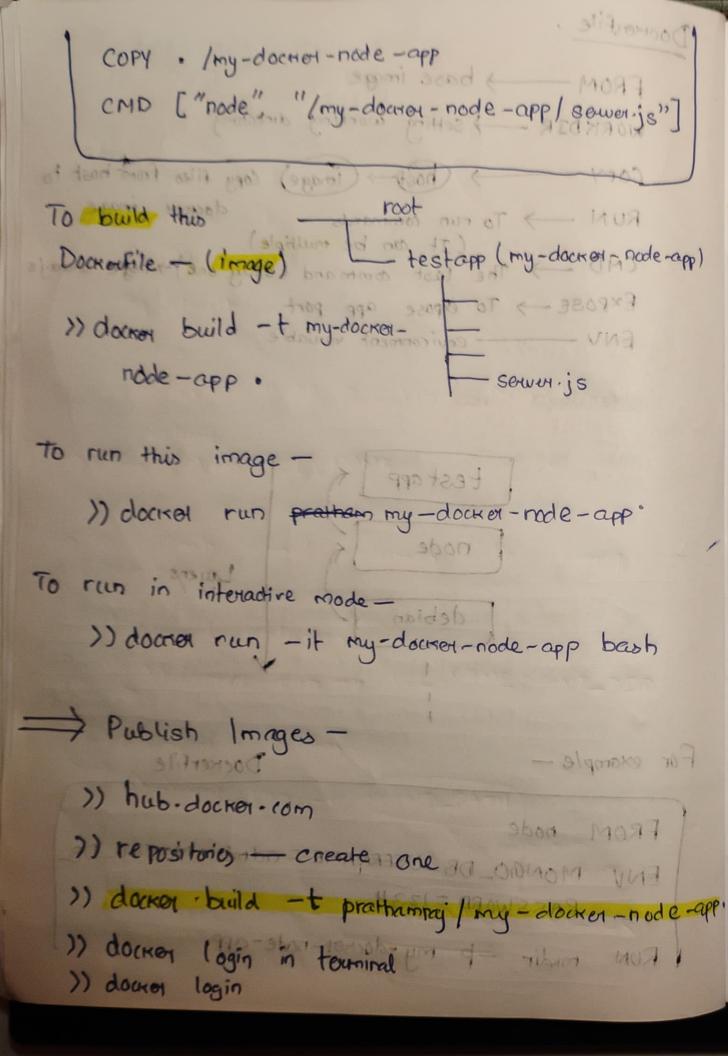
> It contains instructions for yarml file that which contained it will create and use.

Standard o - experient

*1. reate
growthereate)>> docker compose -f file Name yaml up-d
>> docker compose -f file Name, yand down
Deletel remore
tacker image
-> To run clocket compose we need to move to
the specific directory whove eyaml biles are present.
> No explicit network desired: Automatically debault
network are created by docker compose.
retuel doctraising our application.
Output now I will do it by own their E
Network document - testapp-main_default Created
Contained doctret - testapp - main-mongo-express-1 Stanted
Contained docker - testapp -mais - monge -1 stanked
> DOCKER FILE - (Blugging)
Contains instructions for clockerization -
Container testapp-mongo-express-1 Removed
V Containor testapp - main - mongo-1 Removed
V Network testopp - main-default Removed







>) docker volume la dong tomob)) doctor volume create VOL_NAME To create Isolated & not attached to custom volumes any container. Labo known as By default its named volumes) location on windows will be > C: | program Data | docker | volumes volume nontainer ent detete)) docker 1 LL NOT NOT NAME hose pater > To attach named volumes with running ove Container - ado : deg took studeds 1) Named volumes docted monde)) docted run -v VOL-NAME: CONT_DIRV - 3/grapk -11) Anonymous Volumes 1) docker run -v MOUNT_PATH No path I name is known 111) Bird Mount >> docker run -v HOST_DIR: CONT_DIR Volume Managed by host os here all sound and restricted

-> flags -* --volume) * --mount

>> docker volume prine

Delete unuxed volumes locally

By default it tangets

anonymous volumes