

yaemon

// Plast clocker image

ommand interactive name

At Hour total computer whether at your local computer whether you have ubunto or not if not the it will downlode the ubunto image from hub. docker, com and then it will create a container and this image will be our in that container which is completely irratated from outside of that container.

deploy and scale application

Into any environment and

reliable, low cost way

to build, ship and

run distributed application.

at any scale.

cmd

clocker

to see all docker

commands

-> docker -V

UBUNTU

container

To:e.d2...

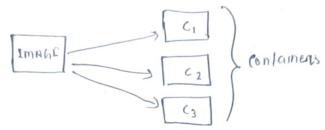
To check vorsion of docker

[cto11+0] -> To exit from container.

the use 1-name; to give name to your container

-> ducker sun -it --nigne < name; < imagenance;

A sinste image can be use to non in multiple contain is isolated mon each other.



- docken container is -> This will show your forming container on your local machine.
- -) docken container ls -a] -> This will show all container on your machine (exited & sinning)

- # every configure on your machine have unique name.

 you can start or stop a container, by.
- -) docken stant < name>] this will stant on exited container
- -> docken stop Kname>]-> This will stop an Funning container
- "# If you wont to excecute any command in a container, (make sure its stunning) you can do by this!
- This will sun that command in that container, container.

 show the susult and get back to "cmd".

Il But IJ you want to keep running this container in "emd",

By adding this flag ubuntu.

Called "Interractive"

keep running

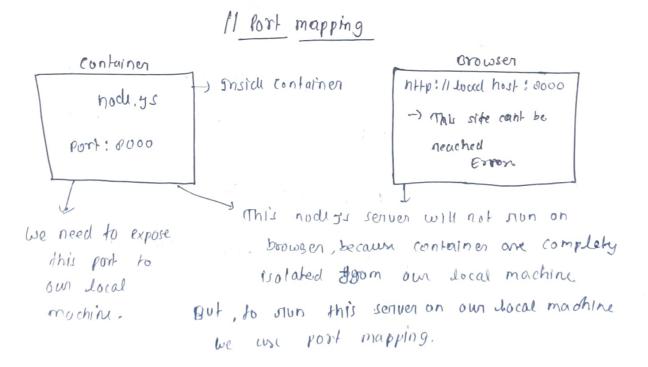
the container.

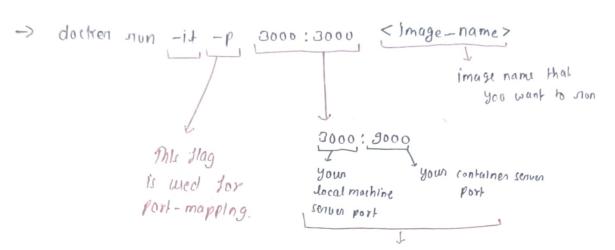
-) docker images] -> By this we can see all images in our machine

11 To explore images you can go to hub. clocker, com"

6 6 6

999999





This line means 8000 (container some source of the 3000 port on your machine.

We can now , som server on own local

machine brown on 2000, root.
"http://localhost: 2000"

-> we can also do multiple post mapping, because some limage from on two or more posts. e.g. - mailhog

-) docker son -p 8025: 0025 -p 1025: 1025, mailhog/mailhog

L

image-name

// Envisonment variable

→ docker siun -it -ρ ±025: 2025 -e key=value -e key=value <image=name>.

11. Dockenization of Nochijs Application.

Inside your node ys application create a fill named "Dockerfile", se coretuil with name.

nody. 9s indix. 9s package, 9son package-lock

Dockentile

Pirst we have to chose a base image. [OS] es (ubunto, windows, mackos). to Hate -> Anom ubuntu ubuntu 1 Lets go with ubunto 1 to sun nodej: we need A Run apt-get ubdate to install node on ubuntu. - Aun apt-get install -y court 2 00 install node 75 on ubuhbu we need -> Run cunt -SL < Link> tollow, then steeps -> Run apt-get upradu-y Refer to any documentation - Aun apt-get install-y noch ys 3 Then we need to copy own source file to the -Longe image. our local machibe file gel copyied to image s copy package lock your pack.... all those under live command should be copilal. gg RUN, FROM, COPY local machine | image copyled tile name till name -) AURI MPM install. (

= EMPRY POINT ["noch", "imdixys"

> ENTRYPOINT ["node", "index. is"]

often auniting these code in "clockerfile".

go to and inviole of that tolder location and

Run!

-> docken build -+ < name of image?

path of the tile

· preans II- exist in same

Doomon ull perform some steep and create your image as ber your instructions.

you can own your docker image by.

-> docker siun -it < name_g. image> ,-p 8080; 8000

don't torget to map the

bort.

and you can go inskle your nunning container by.

-s docken exec -it <Id-of-containers bash

you will enter inside the container and now you can see the files by 'Ic' command.

you can even see the code inside your index is by command.

-> cat index igs

11 code

install ubuntu and thun insid the ubuntu node ys.

Caching Layers.

if we make some change in our index. Is and rebuild the docker image, in above step where no changes are made I sun fort and when it will And some change, this step then after that step It will non every command again.

that why the ordering of the docker command inside the dockerfile should be carefully.

we are going to enate change should be below, so we don't need to non every command every time

Publishing to hub.

and create a repository.

you will get a name like

<usernames/< nego_names.

e.g addi 4991/my-1st-docker-ing]-s copy this

and create an image with the same name.

-) docker build -+ add1491/my-1st-docker-ing.

after that go to and and sun

-> docker push < name-of-newly-created-image >

But make swu you are dogged in Inclde your local machine. To logia your docker locally, sun command.

-) docker login

username: adii 4451

panword:

and enter

