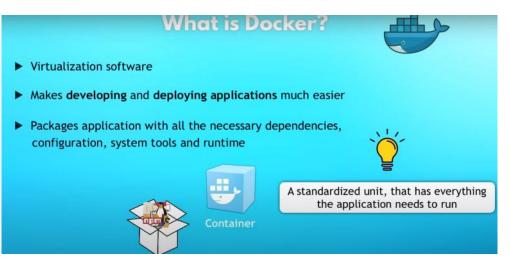
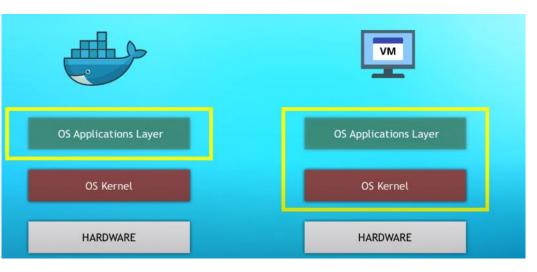
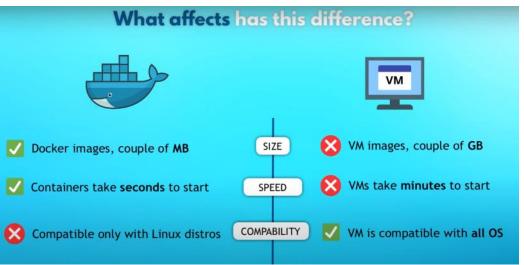
## **DOCKER**

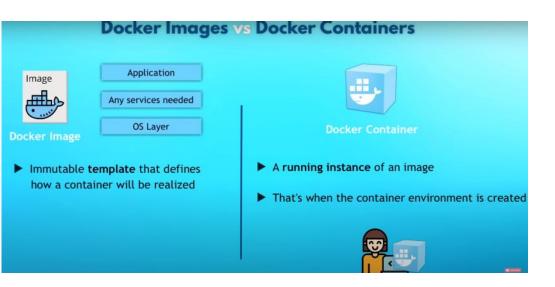
Monday, October 9, 2023 11:23 PM



### **DOCKER VS VM**







### **Commands:**

To fetch images:

->Docker images

To fetch containers:

->Docker ps

To pull image:

->>docker pull name:version

(default version is latest)

Ex: docker pull nginx:1.13

To run image:

->>docker run name:version

Ex: docker run nginx:1.13

To run image detaching from terminal (doesn't close if terminal closed):

->docker run -d name:version

Ex: docker run -d nginx:1.13

To get logs of container:

->docker logs containerID

To run image without pulling locally:

->docker run imageName:version

To stop a container:

->docker stop containerID

To do PORT BINDING(-p or -publish):

->docker run -d -p hostPort:containerPort imageName:version

Ex: docker run -d -p 9000:80 nginx:1.13

Note: only one image can run on a port at given time instance

To get list of all containers created whether running or not:

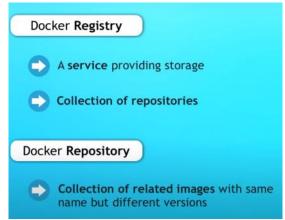
->docker ps -a

To start a container previously created and was stopped:

->docker start containerID

To run a container by providing a name: docker run --name {name} -d -p {hostPort}:{containerPort} {imageName}:{version}

#### **DOCKER REGISTRY VS REPOSITORY**



-> CREATE A DOCKER FILE(USE BASE IMAGE)

# **BUILDING YOUR OWN IMAGE AND HOST ON DOCKER**

->WRITE YOUR CODE

Dockerfile M

(1) package\_ison

Dockerfile M

(1) package\_ison

Dockerfile M

(1) package\_ison

RUN

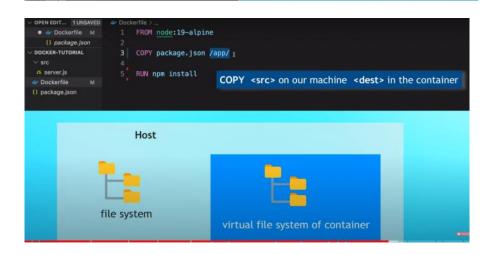
Build this image from the specified image

RUN

Will execute any command in a shell inside the container environment

PROBLEMS OUTPUT DEBUG CONSOLE

at Module, \_compile (node:internal at Module, \_load (node:internal a



```
JS server.js

Dockerfile

NORKDIR

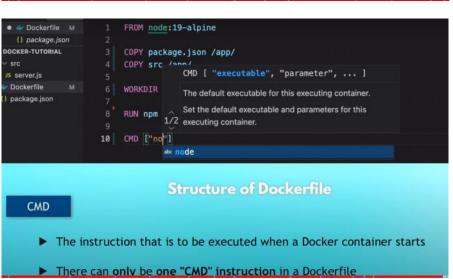
RUN npm install

Structure of Dockerfile

WORKDIR

Structure of Dockerfile

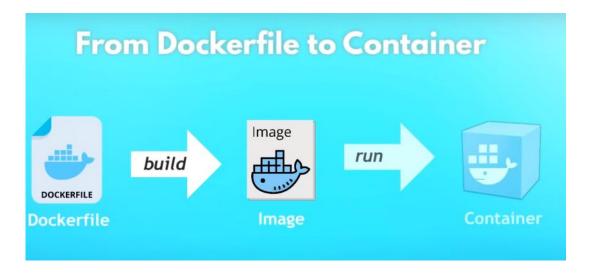
Like changing into a directory: "cd ..."
```



```
Dockerfile > ...

1 FROM node:19-alpine

2
3 COPY package.json /app/
4 COPY src /app/
5
6 WORKDIR /app
7
8 RUN npm install
9
10 CMD ["node", "server.js"]
```



Now its time to build docker image from dockerFile:

->Docker build -t {imageName}:{imageVersion} {location of dockerFile from which image to be build}