#Docker

Docker is a containerization - platform for cleveloping, packaging, Thipping, and running applications.

JET provides the ability to run an application in an isolated environment application un am called a container.

= 9t make deployement & development efficient

12 container includer:

- 2 Your vapp's coole that way to package an application
- 2 Dependencies (like Nocle, Python) etc.
- e Environment configuration.
- e Os-level tools/libralier.

 This ensure you app own the same on any System.

But Dockers vuins the same software-euise, but not the some performance-wise, that clepends on the viecivers system floodware.

luny do me need dockers Docker lets us package apps ewith everything they need, so they can sum the same Cucoywhere - on the machine, server or Cloud - euithout setup problem. " It solve the 'It works on my machine Broblem " residences o acutor, Suchitecture of docker Dockers allows you to sum multiple apps with different envisonment Clike Node V14 & V10 On the same system, without conflicts - thanks to Contaîners & docker engine) Container Container APPS APP 1 isolated isolated defendancies dependencies Jacker Engine (Dockers) Oboxating System Window Hac, linux Hardware aus

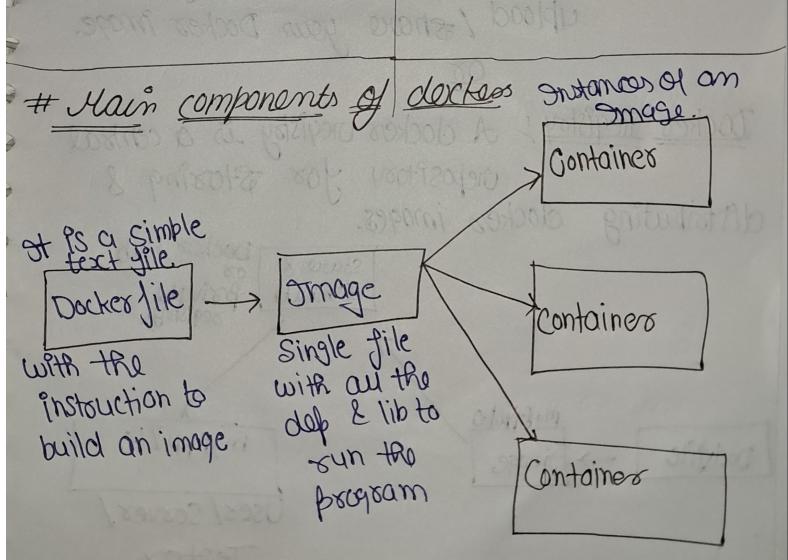
Docker Vls VMS

Dockers

- Jast, low disk space usage.
- Shoving, re-building and distribution is easy.
- = Encapsulation apps Instead of whole machine

Awa

- = High impact on Os, slower, fright disk,
- e staving one-building & clistoileution is challenging
- = Encapsulate whole machine.



Key Dockor terms
Docker file: A file with instruction to build your clocker image:
2º <u>Image</u> ; a fockaged version of your application = Clike a snapshot/bluepoint).
3. Contoiner! A sumning instance of Docker image.
1= Docker Hub- Online storage (registry) to upload 1-share your Docker image.
Docker Registry / A docker viegistry is a central onepository for storing &
distributing clocker images. Stare & Docker Hub Stare & private registry
Dockfile > myAppV10 Usex/Sexvex/ Tester.