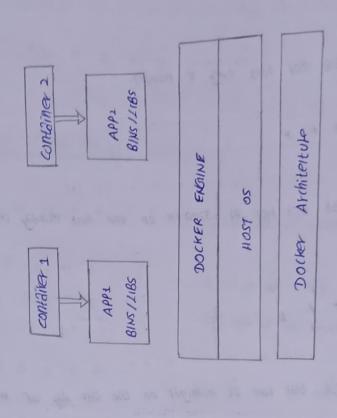
Dockey



APP1 APP2 APP3
BINS/ BINS/ LIBS
LIBS LIBS
LIBS GUEST
OS OS

HYPERVISOR
HOST OS
VIELUAL Machine Ardiitekle

Vm mgr

VHILLIAN VS DOCKA:

HAVISOY (VHUZYE):

Resource Allocation: Hosting multiple features of an application on separate instances (microservices) requires a high-capacity system.

example: on a local machine (laptop), installing three os's like Linux, willdows and ubuntu would each consume around 200 RAM, making it heavy weight.

Isolation: provides strong isolation by running each os in a seperate VH, but it's tesource-intenvise since each VH includes a full os instance.

Adaptage: Run any os within a vinuale virtual machine, regardless of the host.

Jightweight: In contrast, Docker containers are lightweight and boot quickly, consuming far fewer resources.

Even a full os in a Docker container might only lake about 150 MB.

agaileny management: Docker is ideal for microservices. For instance, a bank
application with features like savings, loans and fixed deposits
can run each feature in separate containers, each with
different dependencies (Java 17, Java20 and Java19 tespectively)

Efficiency: container share the host os kanel, avoiding the need to instants.

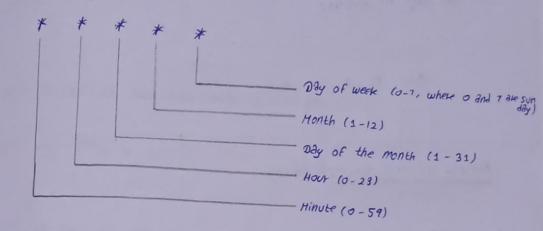
This reducer resource consumption.

tsolation & saurity: containers won't constit with each o'there and maintain saurity without dilert contact with the host saver, laking up no extra stronge space or RAN on the host.

Disadvantage: Docker contained are usually restricted to the same operating system family as the host.

For example: If our hast is Linux, we generally (an't fun windows container difectly.

Structure of cron job;



* * * * *

This means every minute, every hair, every aday of the month,

Every month, Every day of the week.

Example of Chon timings:

1. Run at 5 minutes past every hour:

5 * * * *

2. Run every day at 2:30 AH:

30 2 * * *

3. Run every sunday at midnight:

00**0

4. Run ever 10 minutes:

*/10 * * * *

Examples of con timings: (Machie)

- 1. 30 14 * * * = 2:30 PM of every day.
- 2. 0 9 * * 1-5 = 9:00 AH of, Monday to Friday (weekdays).

 every day of the month, and every month.
- 3. 15 18 1 * *

 = 69:15 In on 1st month of every month,

 regardless of day of the week
- 1. \$/10 * * * * = will run every 10 minuter of every hour,

 regarder of day, month or date
- 5. 0 0 1 1 * = 12:00 AH on January 1st every year.

white the cron job that runs at 8:00 AH of the 15th of every month.

Ans: 0 8 15 * *

1. write a cron job that runs every 5 minutes.

Ans: */5 * * * *

g. white the chon job that hons at 3:00 pH on the first monday of every month.

Ans: 0 15 # # 1

9. white the cron sob that tuns at midnight on the last day of every month.

Ans: 0 0 28-31 * # [*\$ (date + \ 1.d -d tomorow)" == "01"] RK comand

10 write a (non job that runs at 6:00 AH every sunday.

Ans: 06 + + 6

Il write a cron job that runs every weakday (nonday to Friday) at 9:00 Art.

Ans: 0 9 * * 1-5