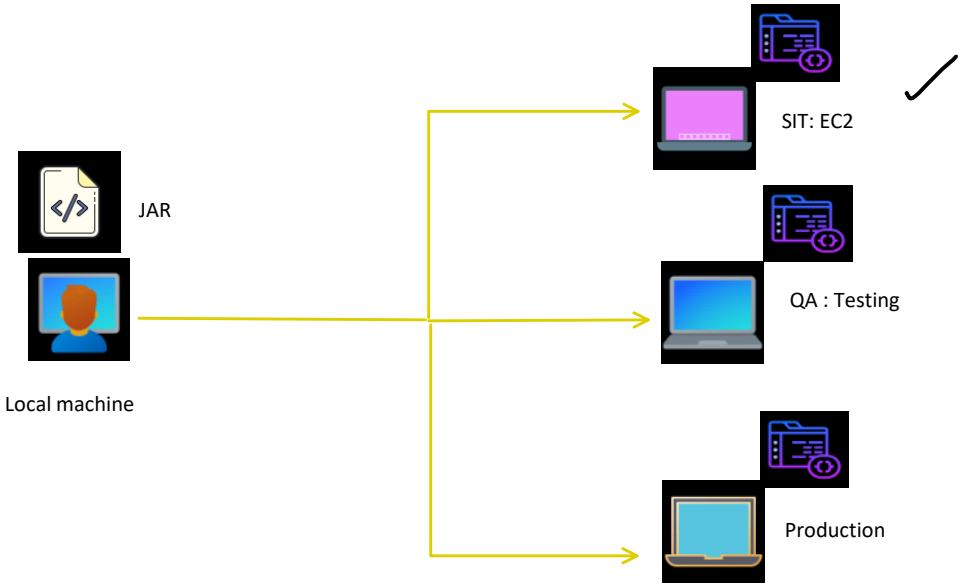
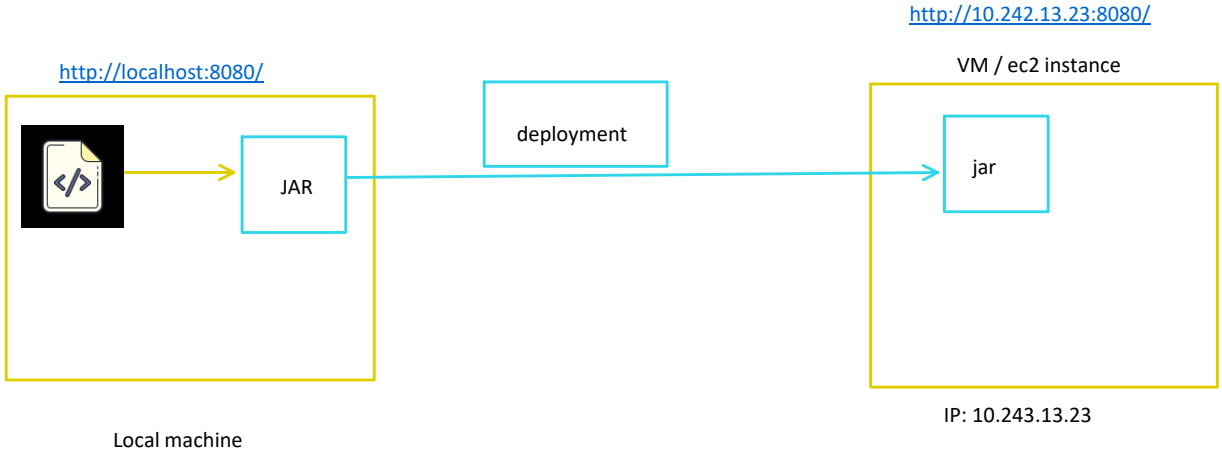
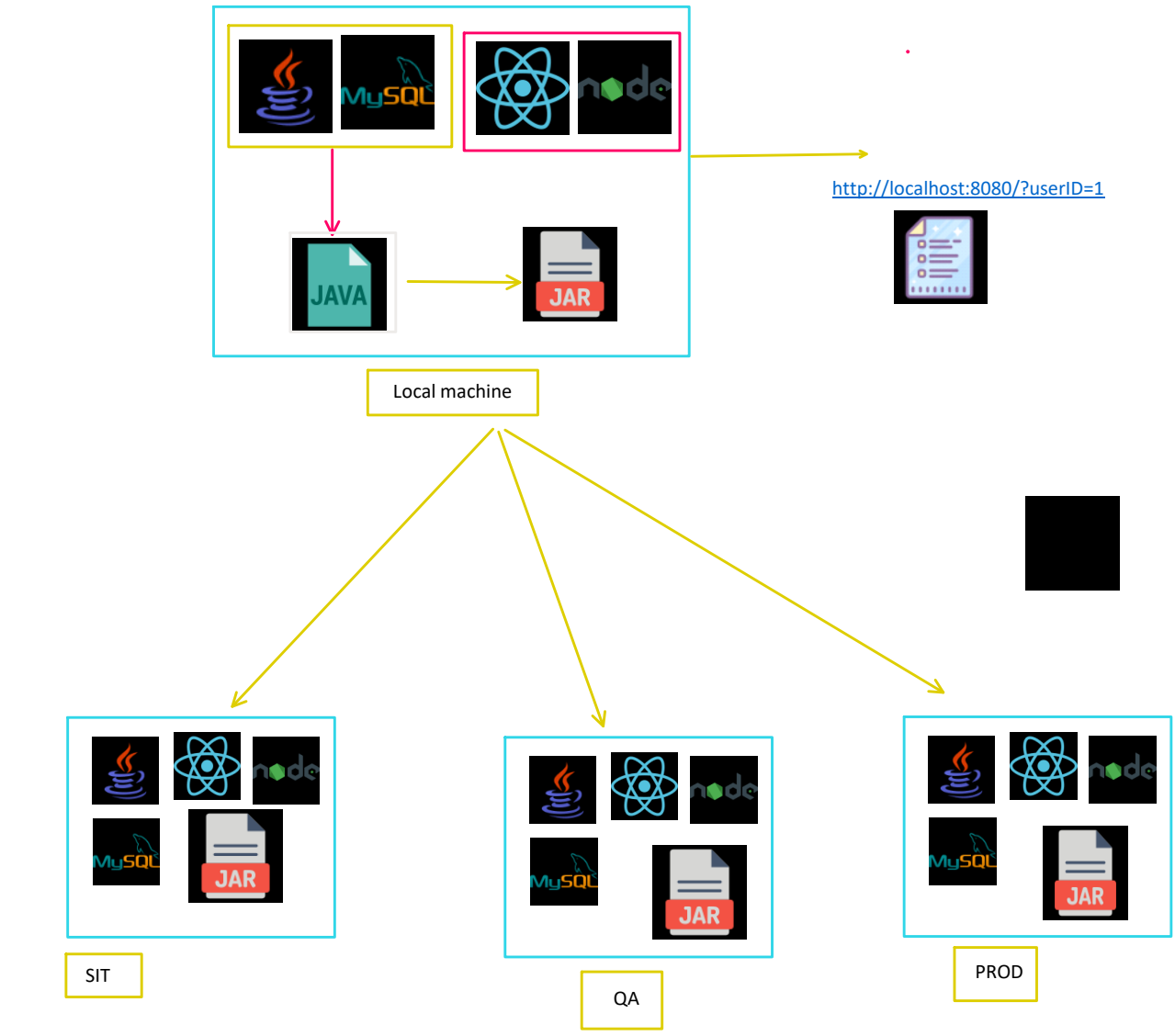
Docker

05 April 2025 09:02



Jenkins : CICD




http://localhost:8080/?userID=1
JAVA
JAR
Local machine
SIT
QA
PROD

Point 2

Payment

http://localhost:8080/?userID=1

Local machine

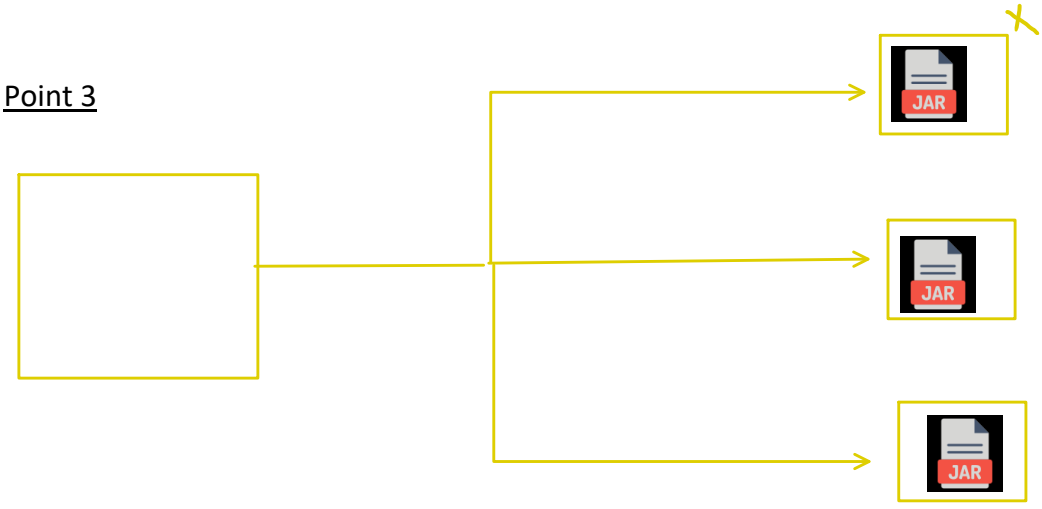
SIT

QA

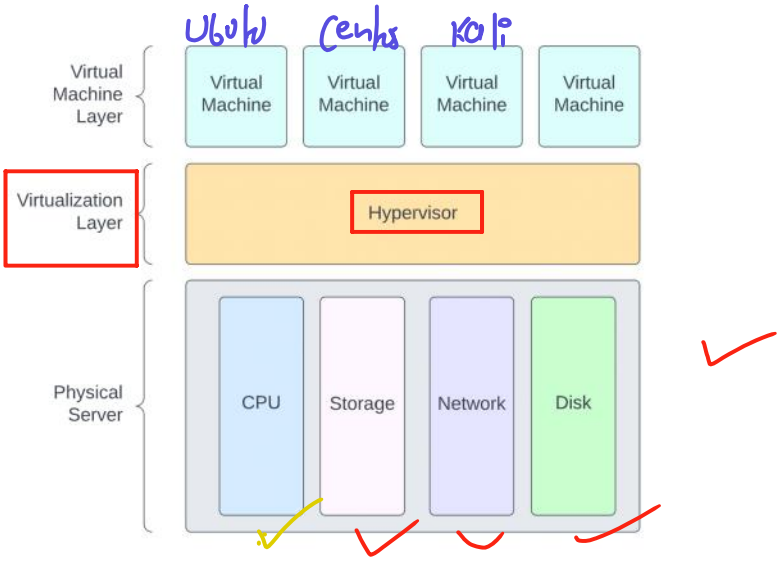
PROD

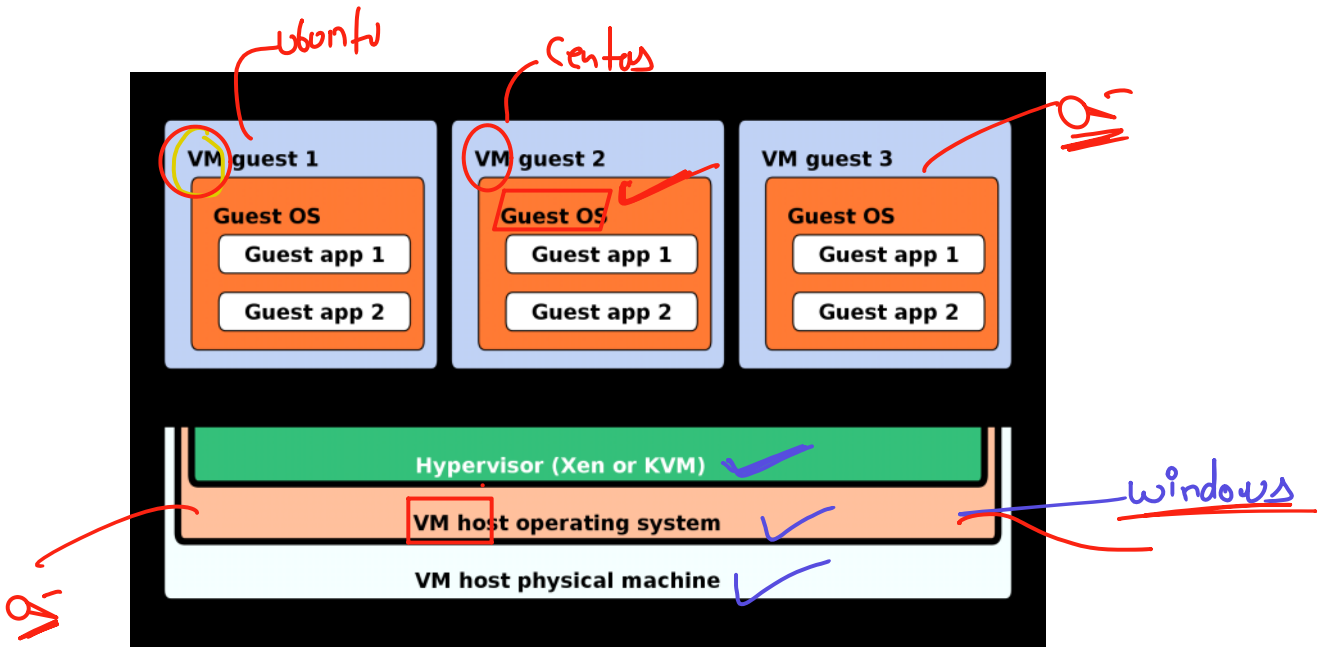
Notification not working

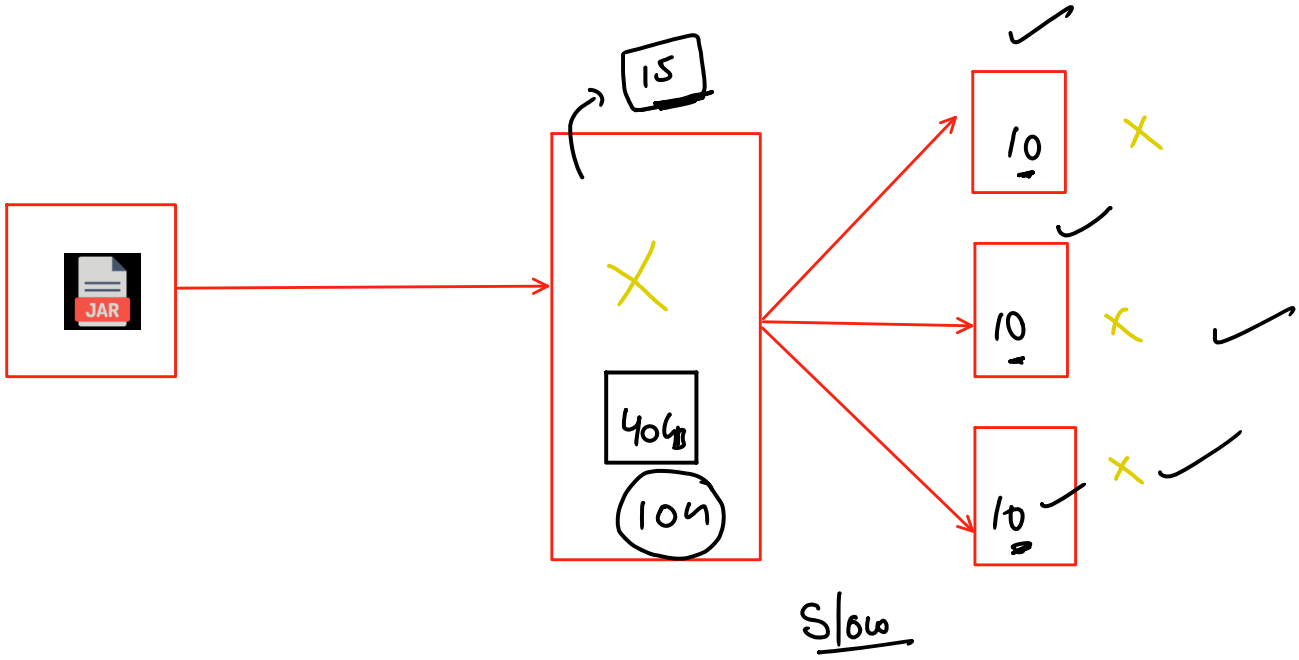
Point 3



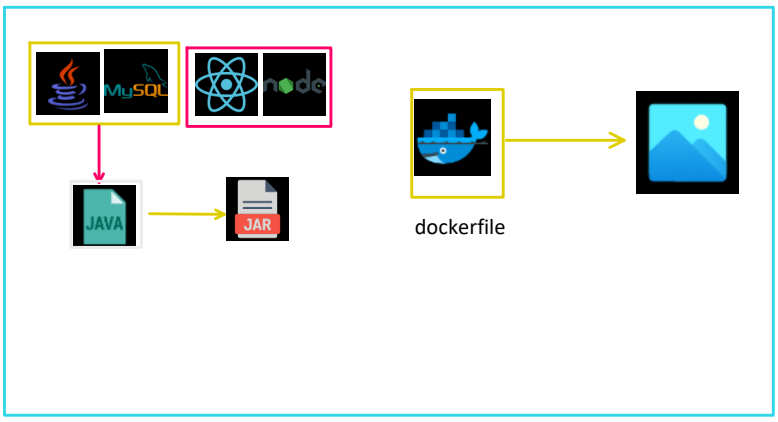
Virtualization




VM guest 1
VM guest 2
VM guest 3
Guest OS
Guest app 1
Guest app 2
Hypervisor (Xen or KVM)
VM host operating system
VM host physical machine


JAR
15
10
10
10
404
104
Slow

Docker :



What is docker file ?

Java code

Docker file

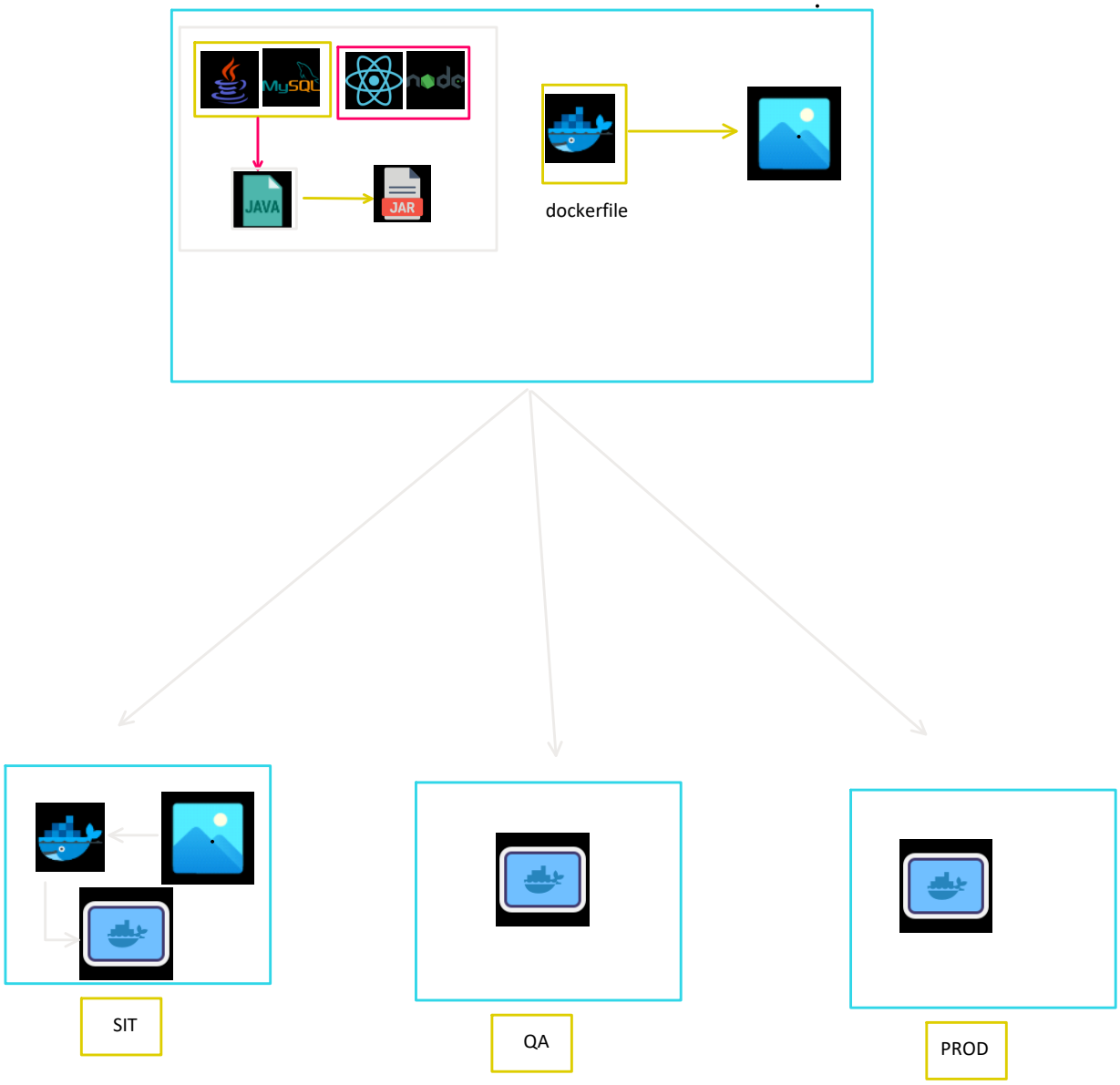
A Dockerfile is a text file containing instructions on how to build a Docker image, essentially acting as a recipe for creating a containerized application

A Docker image is a file that contains instructions for building a Docker container.

Student s=new Student()

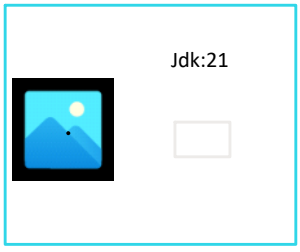
Docker container is running instance of image

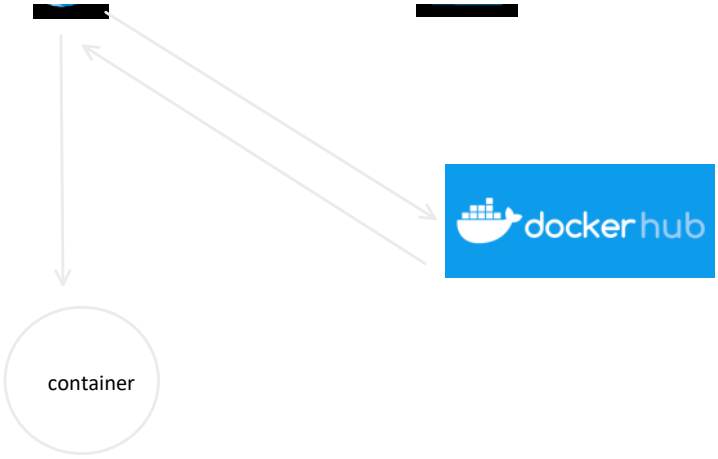
Docker is an open platform for developing, shipping, and running applications.

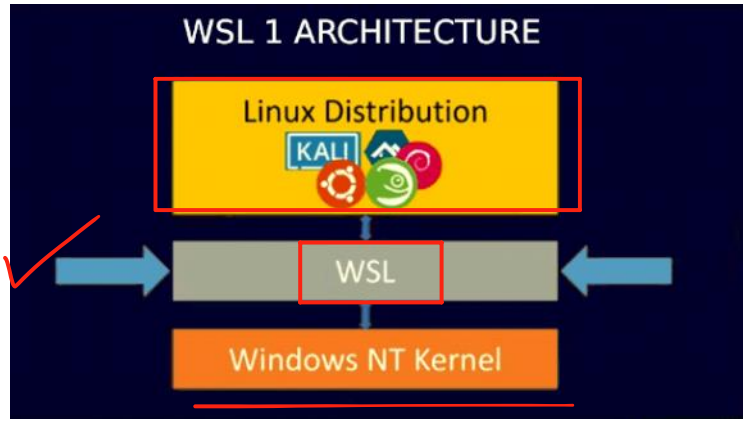


Java code ----------> github----------->SIT Pull----------Jar---------->run
images ----------> dockerhup---------->SIT Pull---------->container-------->run

How it is working ?







Docker commands
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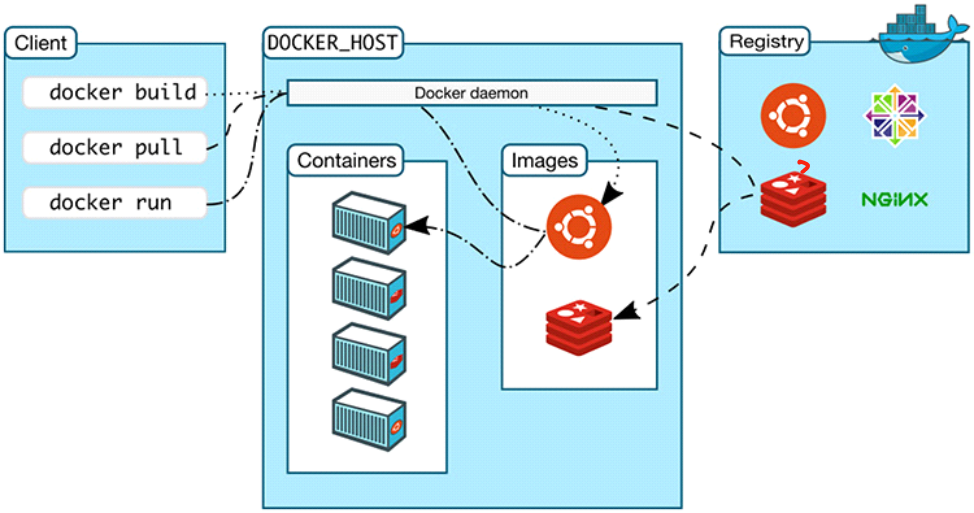
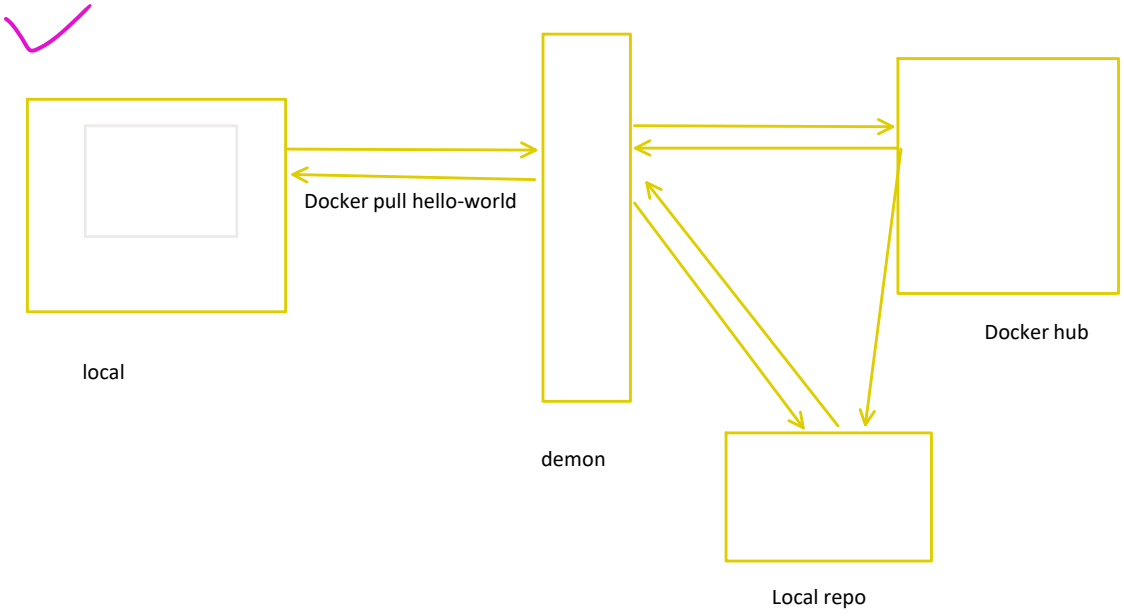
1. Docker version
2. Docker ps
3. Docker ps -a
4. Docker images
5. Docker stop containerID
6. Docker rm continer id





Using default tag: latest
latest: Pulling from library/hello-world
e6590344b1a5: Pull complete
Digest: sha256:7e1a4e2d11e2ac7a8c3f768d4166c2defeb09d2a750b010412b6ea13de1efb19
Status: Downloaded newer image for hello-world:latest
docker.io/library/hello-world:latest

Using default tag: latest

latest: Pulling from library/hello-world
Digest: sha256:7e1a4e2d11e2ac7a8c3f768d4166c2defeb09d2a750b010412b6ea13de1efb19
Status: Image is up to date for hello-world:latest
docker.io/library/hello-world:latest

Docker run hello world
docker run ubuntu
Docker run -it ubuntu

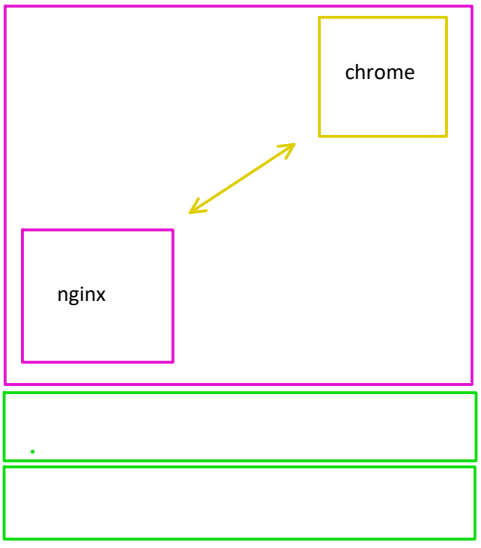
docker exec

docke run----> pull + container run kreya
docker stop containerID

docker start containerID

docker -it
Docker -d

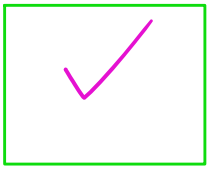
docker run -d --name my-nginx nginx



http://localhost/

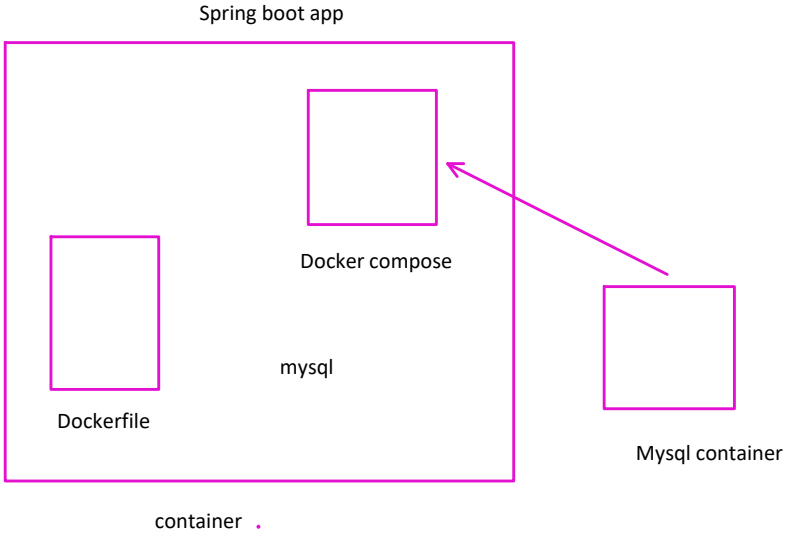
Port binding:
Docker -p

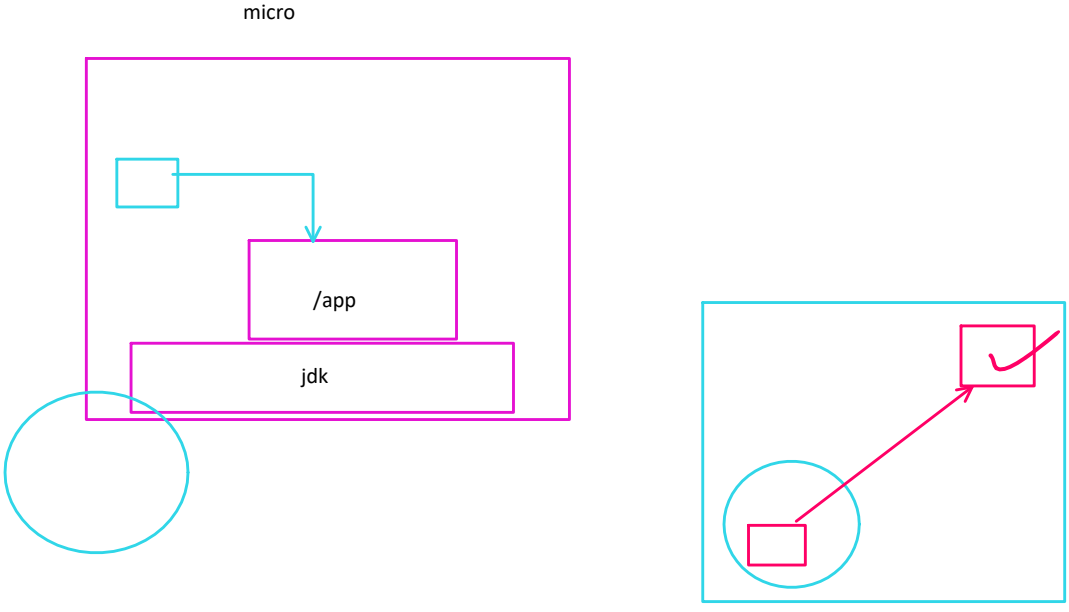
Docker run ubuntu
docker run nginx

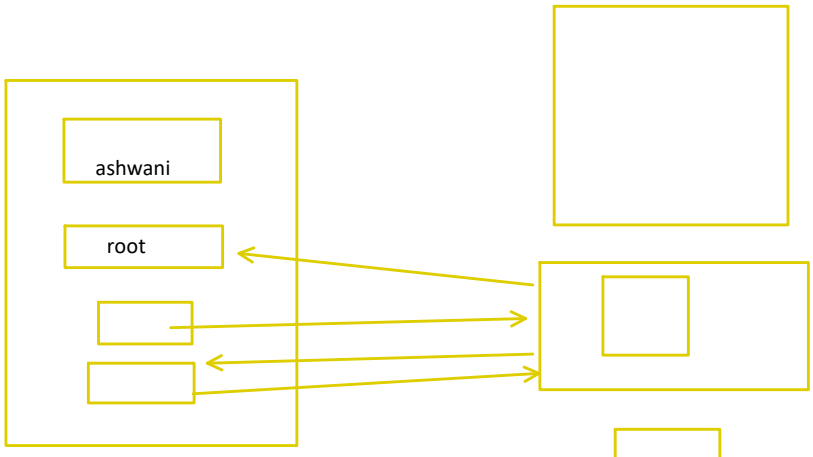


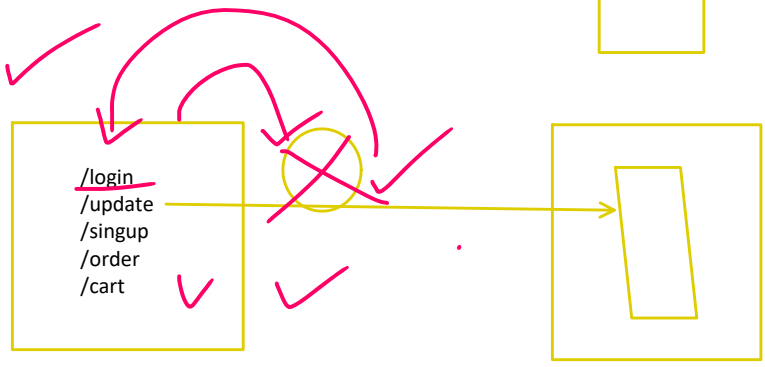
container

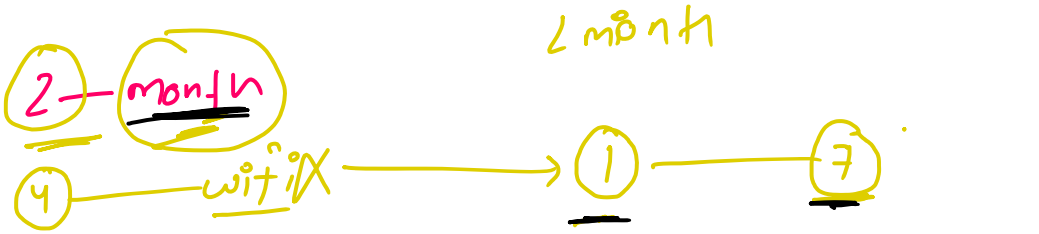
container







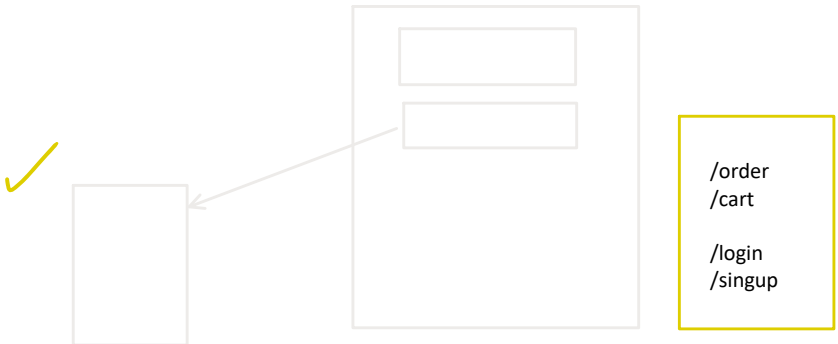
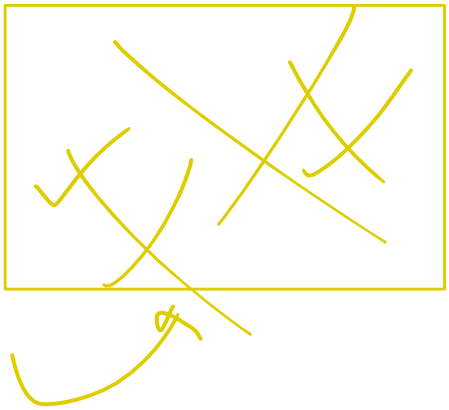
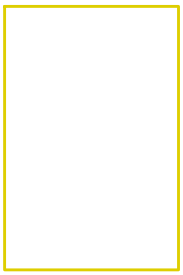




Job — easy

project —

HTML
CSS
JS

React

TS