LTIMindtree

container create multiple replication.

★ (Using single image we can deploy multiple container)

★ How to Hoster container Runtime.
container → immutable
virtual machine → mutable.

1) Launch EC2 (name Docker_Host)
Redhat AMI (use linux in exam)
t2.micro
zone / public / existing sg
launch.
(for Ubuntu centOS)

2) connect
sudo su -
hostnamectl set-hostname docker.exampl.com
bash
rpm query docker
— " — docker-CE
— " — podman
yum update -y
yum install docker* (N)

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google search docker install

RHEF install (copy command) & Paste in cli

yum repolist } To check Red hat repo.

(or) yum install -y (yum install) y.

↳ docker info.

↳ systemctl statu docker

↳ - " - start - " -

↳ - " - enable - " -

↳ - " - statu - " - (active)

↳ docker info.

/var/lib/docker } is root directory

↳ docker imagey

pull imagey from docker hub

Registory → collection multiple Repository modules
Repository → - - -

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Search httpd

tags } multiple version of images.

↳ docker pull httpd
↳ docker images
↳ docker pull Ubuntu.
↳ docker ps
↳ docker run -it --name web-app (interactive)
ubuntu:latest /bin/bash

↳ id
↳ docker inspect web-app | less

↳ apt update -y
↳ apt install apache2
↳ cd /var/www/html
↳ cat > index.html
Hello This is my web app running in container.
Ctrl+d

↳ cd
↳ service apache2 start

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↳ exit
↳ docker ps
↳ docker ps -a

↳ docker start web-app } To start container.
↳ docker ps -a

↳ docker attach web-app } To attach container

↳ cd /tmpp/
↳ touch vick.txt {1..10}
↳ cd
↳ ctrl+p ctrl+q } Simult.
↳ docker ps -a
↳ (curl http://172.17.0.2)

↳ Before this add port 8080 in sg of instance (HTTP) 8080 anywhere

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↳ docker attach web-app
↳ service apache2 start
↳ ctrl p+q
→ docker inspect web-app | less
↳ curl http://172.17.0.2 (copy ip)

container given name by docker
↳ docker run -it ubuntu:latest /bin/bash

↳ apt update -y

↳ apt install apache2 -y

↳ cd /var/www/html
↳ echo "This is my container app" > index.html
↳ ll -
↳ service apache2 start
↳ ctrl+p+q
↳ docker ps -a (name = eccstatic_rubin)
copy container Id

↳ docker inspect id | less
(copy IP:add)

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↳ ping (IP of New container)

↳ curl http://(...)

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rename container name

↳ docker rename elated_rubin web-app2

↳ docker ps -a

↳ docker attach web-app2

Docker how many Network Type
↳ Overlay Network
↳ Underlay Network

Container should Reachable To everyone:

Concept: Port Forwarding

↳ docker run -it --name top-nod -p 8080:80 ubuntu:latest /bin/bash

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↳ apt update -y
↳ apt install apache2 -y
↳ cd /var/www/html
↳ echo "This is public App" > index.html.
↳ Service apache2 start.

ctr p ctr q

↳ docker ps
↳ curl http://172.17.0.4

copy(...) open in chrome
NO output.

go to AWS instance → Instance Id
↳ copy instance public Id
↓
In google (:8080)

Using same public ip of instance But Different Port No. For Docker container.

↳ docker run -it --name my-app -p 3600:80 ubuntu:latest /bin/bash
↳ apt update -y
↳ apt install apache2 -y

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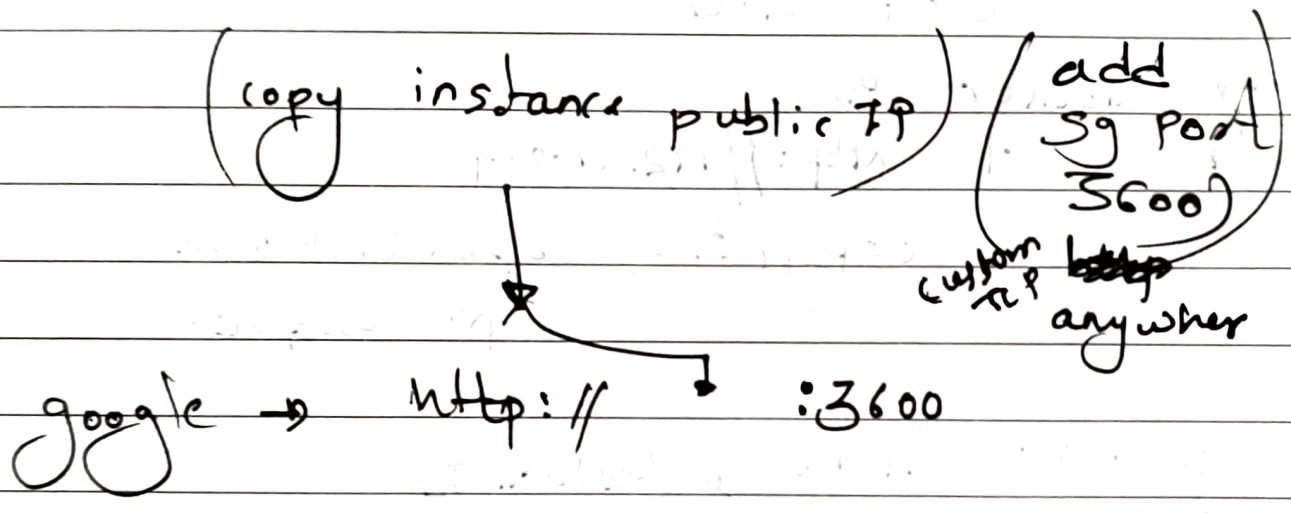
↳ cd /var/www/html

↳ echo "This is 4th app which is running on different port" > index.html

↳ ll

↳ service apache2 start



↳ docker kill my_app } To delete container.

We need to allocate persistance storage (docker volume) to store docker container in case if docker container crashes we can revive data.

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↳ docker volume ls

↳ docker volume --help

↳ docker volume create my-vol
↳ docker volume ls
↳ cd /var/lib/docker/volumes/
↳ ll
↳ cd my-vol/
↳ ll
↳ cd

↳ docker run -it --name data-app -p 2222:80 -v my-vol:/var/www/html ubuntu:latest /bin/bash

↳ apt update -y
↳ apt install apache2 -y
↳ cd /var/www/html
↳ echo "This is data app" > index.html
all kind of datas

Join to store in my-vol

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↳ service apche2 start
(ctrp, ctrQ)

(in eg add 2222 anywhere)

google: (publicip of instance:2222)

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cd /var/lib/docker/volumes/

||

cd my-vol

cd -data/

||

cd

事

To see file

Now to modify that file:

↳ docker attach data-app

↳ cat >> index.html

(add Now i:m & ctrl+d)

ctr+p+Q

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↳ docker kill data-app

container gone

↳ Now To Fetch data file..

↳ cd /var/lib/docker/volumes/my-vol/_data//

↳ ll

↳ (we can see index.html still)