|  |
| --- |
| root@docker1:~# history |
|  | 1 docker |
|  | 2 apt-get update |
|  | 3 apt-get install apt-transport-https ca-certificates curl gnupg lsb-release |
|  | 4 curl -fsSL https://download.docker.com/linux/ubuntu/gpg | sudo gpg --dearmor -o /usr/share/keyrings/docker-archive-keyring.gpg |
|  | 5 echo "deb [arch=amd64 signed-by=/usr/share/keyrings/docker-archive-keyring.gpg] https://download.docker.com/linux/ubuntu \ |
|  | 6 $(lsb\_release -cs) stable" | sudo tee /etc/apt/sources.list.d/docker.list > /dev/null |
|  | 7 apt-get install docker-ce docker-ce-cli containerd.io |
|  | 8 apt-get update |
|  | 9 apt-get install docker-ce docker-ce-cli containerd.io |
|  | 10 docker ps |
|  | 11 docker --version |
|  | 12 docker images |
|  | 13 docker pull ubuntu |
|  | 14 docker pull images |
|  | 15 docker images |
|  | 16 docker run -it -d ubuntu /bin/bash |
|  | 17 docker ps |
|  | 18 docker exec -it 149e8c89786a /bin/bash |
|  | 19 docker ps |
|  | 20 docker stop 149e8c89786a |
|  | 21 docker ps |
|  | 22 docker ps -a |
|  | 23 docker ps |
|  | 24 docer pull ubuntu:16.04 |
|  | 25 docker pull ubuntu:16.04 |
|  | 26 docker images |
|  | 27 ifconfig |
|  | 28 docker images |
|  | 29 docker run -it -p 80:80 --name apache distracted\_zhukovsky /bin/bash |
|  | 30 docker run -it -p 80:80 --name apache aefd7f02ae24 /bin/bash |
|  | 31 docker run -it -d -p 80:80 --name apache aefd7f02ae24 /bin/bash |
|  | 32 docker run -it -d -p 80:80 --name apache1 aefd7f02ae24 /bin/bash |
|  | 33 docker ps |
|  | 34 docker exec -it b13b31bfc145 /bin/bash |
|  |  |
|  |  |
|  |  |
|  | root@ip-172-31-23-239:~# history |
|  | 1 apt-get update |
|  | 2 apt-get install apt-transport-https ca-certificates curl gnupg lsb-release |
|  | 3 curl -fsSL https://download.docker.com/linux/ubuntu/gpg | sudo gpg --dearmor -o /usr/share/keyrings/docker-archive-keyring.gpg |
|  | 4 echo "deb [arch=amd64 signed-by=/usr/share/keyrings/docker-archive-keyring.gpg] https://download.docker.com/linux/ubuntu \ |
|  | $(lsb\_release -cs) stable" | sudo tee /etc/apt/sources.list.d/docker.list > /dev/null |
|  | 5 apt-get update |
|  | 6 sudo apt-get install docker-ce docker-ce-cli containerd.io |
|  | 7 docker ps |
|  | 8 docker pull ubuntu |
|  | 9 mkdir /data |
|  | 10 df -h |
|  | 11 docker run -it -d -v /data:/tmp ubuntu /bin/bash |
|  | 12 docker ps |
|  | 13 cd /data/ |
|  | 14 ls -l |
|  | 15 touch 1 2 3 4 5 6 7 |
|  | 16 ls -l |
|  | 17 docker exec -it b655 /bin/bash |
|  | 18 ls -l |
|  | 19 docker ps |
|  | 20 docker stop b655; docker rm b655 |
|  | 21 docker ps |
|  | 22 ls -l |
|  | 23 docker volume create myvol |
|  | 24 docker volume ls |
|  | 25 docker ps |
|  | 26\* |
|  | 27 docker run -it --mount source=myvol,destination=/tmp -d ubuntu |
|  | 28 docker ps |
|  | 29 docker exec -it 4323 /bin/bash |
|  | 30 cd /var/lib/docker/ |
|  | 31 ls -l |
|  | 32 cd volumes/ |
|  | 33 ls -l |
|  | 34 cd myvol/ |
|  | 35 ls -l |
|  | 36 cd \_data/ |
|  | 37 ls -l |
|  | 38 docker ps |
|  | 39 docker stop 4323; docker rm 4323 |
|  | 40 ls -l |
|  | 41 docker run -it --mount source=myvol,destination=/tmp -d ubuntu |
|  | 42 docker info |
|  | 43 docker exec -it 4323 /bin/bash |
|  | 44 docker ps |
|  | 45 docker exec -it 77df /bin/bash |
|  | 46 ls -l |
|  | 47 docker exec -it 77df /bin/bash |
|  | 48 cd |
|  | 49 docker run -it --name container1 -d ubuntu |
|  | 50 docker ps |
|  | 51 docker run it --name container2 --link container1 -d ubuntu /bin/bash |
|  | 52 docker run -it --name container2 --link container1 -d ubuntu /bin/bash |
|  | 53 docker ps |
|  | 54 docker exec -it container2 /bin/bash |
|  | 55 docker exec -it container1 /bin/bash |
|  | 56 history |
|  | 57 vim docker-compose.yml |
|  | 58 sudo curl -L "https://github.com/docker/compose/releases/download/1.29.2/docker-compose-$(uname -s)-$(uname -m)" -o /usr/local/bin/docker-compose |
|  | 59 chmod +x /usr/local/bin/docker-compose |
|  | 60 docker-compose up |
|  | 61 vim docker-compose.yml |
|  | 62 docker-compose up |
|  | 63 vim docker-compose.yml |
|  | 64 docker-compose up |
|  | 65 vim docker-compose.yml |
|  | 66 docker-compose up |
|  | 67 docker-compose up -d |
|  | 68 docker ps |
|  | 69 docker-compose down |
|  | 70 vim docker-compose.yml |
|  | 71 docker-compose up -d |
|  | 72 docker pos |
|  | 73 docker ps |
|  | 74 docker exec -it 929284d886ef /bin/bash |
|  | 75 docker exec -it ae837a92994a /bin/bash |
|  | 76 vi docker-compose.yml |
|  | 77 docker-compose down |
|  | 78 docker-compose up -d |
|  | 79 docker ps |
|  | 80 docker exec -it b3d21f2c4b74 /bi/bash |
|  | 81 docker exec -it b3d21f2c4b74 /bin/bash |
|  | 82 vi docker-compose.yml |
|  | 83 docker-compose up -d |
|  | 84 docker ps |
|  | 85 vim docker-compose.yml |
|  | 86 docker network ls |
|  | 87 docker network inspect bridge |
|  | 88 docker network create shiva |
|  | 89 docker network ls |
|  | 90 docker run -it -d --network=shiva ubuntu /bin/bash |
|  | 91 docker exec -it bd0bb /bin/bash |
|  | 92 docker network inspect shiva |
|  | 93 docker network --help |
|  | 94 docker network create --help |
|  | 95 history |
|  |  |
|  | 35 docker ps |
|  | 36 docker commit b13b31bfc145 raviapache |
|  | 37 docker images |
|  | 38 docker run -it -d -p 8080:80 --name apache2 raviapache /bin/bash |
|  | 39 docker ps |
|  | 40 netstat -tunlp |
|  | 41 docker ps |
|  | 42 docker exec -it 8491ab865a87 /bin/bash |
|  | 43 docker ps |
|  | 44 docker kill 8491ab865a87 |
|  | 45 docker ps -a |
|  | 46 docker rm 8491ab865a87 |
|  | 47 docker ps -a |
|  | 48 docker images |
|  | 49 docker rmi dd4847278684 |
|  | 50 docker images |
|  | 51 docker ps |
|  | 52 docker commit b13b31bfc145 demoubuntu |
|  | 53 docker images |
|  | 54 docker login |
|  | 55 docker tag demoubuntu ankushgupta0727/demoubuntu |
|  | 56 docker images |
|  | 57 docker push ankushgupta0727/demoubuntu |
|  | 58 history |
|  | 59 docker run -d ubuntu:16.04 |
|  | 60 docker ps |
|  | 61 docker ps -a |
|  | 62 docker pull httpd |
|  | 63 docker run -d httpd |
|  | 64 docker ps |
|  | 65 docke rimages |
|  | 66 docker images |
|  | 67 docker run -it ubuntu:16.04 uname |
|  | 68 docker ps |
|  | 69 docekr ps -a |
|  | 70 docker ps -a |
|  | 71 cd /var/lib/docker/ |
|  | 72 ls -l |
|  | 73 docker images |
|  | 74 docker tag demoubuntu docker-registyr.wipro.com/demoubuntu |
|  | 75 docker images |
|  | 76 cd plugins |
|  | 77 ls -l |
|  | 78 docker rmi docker-registyr.wipro.com/demoubuntu |
|  | 79 docker --help |
|  | 80 docker run --help |
|  | 81 history |
|  | 82 docker pull registry |
|  | 83 docker images |
|  | 84 docker run -d -p 5000:5000 --name localregistry registry |
|  | 85 docker ps |
|  | 86 docker tag demoubuntu localhost:5000/demoubuntu |
|  | 87 docker images |
|  | 88 docker push localhost:5000/demoubuntu |
|  | 89 docker images |
|  | 90 docker rmi demoubuntu localhost:5000/demoubuntu ankushgupta0727/demoubuntu |
|  | 91 docker images |
|  | 92 docker pull localhost:5000/demoubuntu |
|  | 93 docker images |
|  | 94 vim Dockerfile |
|  | 95 docker build -t testapache . |
|  | 96 echo "Hello World" > index.html |
|  | 97 docker build -t testapache . |
|  | 98 docker images |
|  | 99 docker run -d testapache |
|  | 100 docker ps =a |
|  | 101 docker ps |
|  | 102 docker run -d -p 8081:80 testapache |
|  | 103 docker ps |
|  | 104 docker run -it -d -p 8082:80 testapache /bin/bash |
|  | 105 docker ps |
|  | 106 vim Dockerfile |
|  | 107 docker build -t testapache . |
|  | 108 docker run -it -d -p 8083:80 testapache /bin/bash |
|  | 109 dcoker ps |
|  | 110 docker ps |
|  | 111 docker logs 15d6743a6cbe |
|  | 112 docker logs -f 15d6743a6cbe |
|  | 113 docker run -d jenkins |
|  | 114 docker search jenkins |
|  | 115 docker pull jenkins |
|  | 116 docker run -d jenkins:2.60.3 |
|  | 117 docker images |
|  | 118 docker ps |
|  | 119 docker logs 7ea24cbc06fc |
|  | 120 docker inspects May 16, 2021 4:33:13 PM jenkins.InitReactorRunner$1 onAttained |
|  | 121 INFO: Prepared all plugins |
|  | 122 May 16, 2021 4:33:13 PM jenkins.InitReactorRunner$1 onAttained |
|  | 123 INFO: Started all plugins |
|  | 124 May 16, 2021 4:33:13 PM jenkins.InitReactorRunner$1 onAttained |
|  | 125 INFO: Augmented all extensions |
|  | 126 May 16, 2021 4:33:14 PM jenkins.InitReactorRunner$1 onAttained |
|  | 127 docker ps |
|  | 128 docker inspect 7ea24cbc06fc |
|  | 129 ifconfig |
|  | 130 docker inspect 7ea24cbc06fc |
|  | 131 ps -ef | grep -i docker |
|  | 132 docker ps |
|  | 133 ps -ef |
|  | 134 docker inspect 7ea24cbc06fc |
|  | 135 ps -ef |
|  | 136 mkdir data |
|  | 137 cd dta |
|  | 138 cd data/ |
|  | 139 ls -l |
|  | 140 touch 1 2 3 4 5 |
|  | 141 cd |
|  | 142 docker run -it -d -v /data:/tmp ubuntu /bin/bash |
|  | 143 docker ps |
|  | 144 docker exec -it 9168d09dade4 /bin/bash |
|  | 145 cd /data |
|  | 146 ls -l |
|  | 147 touch 1 2 3 4 5 |
|  | 148 docker exec -it 9168d09dade4 /bin/bash |
|  | 149 ls -l |
|  | 150 docker ps |
|  | 151 docker stop 9168d09dade4 ; docker rm 9168d09dade4 |
|  | 152 ls -l |
|  | 153 exit |
|  | 154 vim Dockerfile |
|  | 155 docker build -t singlerun . |
|  | 156 vim Dockerfile |
|  | 157 docker ps |
|  | 158 docker ps -a |
|  | 159 mmkdir demo |
|  | 160 mkdir demo\ |
|  | 161 mkdir demo |
|  | 162 cd demo |
|  | 163 vim Dockerfile |
|  | 164 docker build -t ping . |
|  | 165 docker run -it -d ping |
|  | 166 vim Dockerfile |
|  | 167 docker run -it -d ping |
|  | 168 docker build -t ping . |
|  | 169 docker run -it -d ping |
|  | 170 docker logs 1a667da45935269ef71e88bc59a0511d39c1aa5a21ac062a8f1b9997fc10d67b |
|  | 171 docker ps -a |
|  | 172 docker run -it -d ping docker.io |
|  | 173 docker logs 5f5e |
|  | 174 history |
|  |  |
|  | root@docker1:~/demo# cat Dockerfile |
|  | FROM ubuntu:trusty |
|  | ENTRYPOINT ["/bin/ping","-c","3"] |
|  | CMD ["localhost"] |
|  |  |
|  |  |
|  | root@docker1:~# cat Dockerfile |
|  | FROM ubuntu:16.04 |
|  | RUN apt-get update && apt-get install apache2 -y |
|  | ADD index.html /var/www/html |
|  | EXPOSE 80 |
|  | ENV Name Devops |
|  | ENTRYPOINT apachectl -D FOREGROUND |

----------------------------------------------------------------------------------------------------------------------------------------------------------------------------

Traditional methos--🡪we cant use the application fully

Virtulization-🡪 we can use the application up to specific extend

Even in virtualization, we cant use this resource 100%.

Docker engnine is containerization.

Name space

Cgroups

Selinux-----🡪 this three things container required from os.

Virtualization--🡪this is the process of creating many os on a single machine using virtualization.

If my virtual machine went wrong my both the applications will be down.

So, we are using containers with this we can use the resources more effectively, and also containers are independent.

Containers arelightweightt and lightning speed.

Containers--🡪 these are micro-based os.

Containers are isolated from each other.

Micro os,dependencies,application.

General centos🡪8gb docker centos-🡪400MB

Mesos(apache),docker,rkt

Docker engine--🡪 it wont has multiple plugins.

Docker community edition.(ce)

Docker enterpriceedition.(ee)

Ce,ee will have lot of plugins for creating multiple features,

<https://hub.docker.com/>

<https://hub.docker.com/_/ubuntu?tab=tags>

<https://docs.docker.com/>

<https://docs.docker.com/desktop/install/ubuntu/>

sudo apt install openssh-server.

apt-get update

sudo apt-get install \

ca-certificates \

curl \

gnupg \

lsb-release

sudo mkdir -p /etc/apt/keyrings

curl -fsSL https://download.docker.com/linux/ubuntu/gpg | sudo gpg --dearmor -o /etc/apt/keyrings/docker.gpg

(this gpg key will check the integrity like they are coming from the right source or not).

echo \

"deb [arch=$(dpkg --print-architecture) signed-by=/etc/apt/keyrings/docker.gpg] https://download.docker.com/linux/ubuntu \

$(lsb\_release -cs) stable" | sudo tee /etc/apt/sources.list.d/docker.list > /dev/null

sudo apt-get update

sudo apt-get install docker-ce docker-ce-cli containerd.io docker-compose-plugin

root@mani-VirtualBox:~# docker ps

CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES

root@mani-VirtualBox:~# docker –version--------------🡪 this is docker ce image

Docker version 20.10.17, build 100c701

root@mani-VirtualBox:~# docker images

REPOSITORY TAG IMAGE ID CREATED SIZE

root@mani-VirtualBox:~# docker pull ubuntu------🡪 you dident mentioned any images specified so it is downloading the latest image.

Using default tag: latest

latest: Pulling from library/ubuntu

405f018f9d1d: Pull complete

Digest: sha256:b6b83d3c331794420340093eb706a6f152d9c1fa51b262d9bf34594887c2c7ac

Status: Downloaded newer image for ubuntu:latest

docker.io/library/ubuntu:latest

root@mani-VirtualBox:~# docker images

REPOSITORY TAG IMAGE ID CREATED SIZE

ubuntu latest 27941809078c 6 weeks ago 77.8MB

root@mani-VirtualBox:~# docker run -it -d ubuntu /bin/bash---🡪 this is the identity of the container.

1b06bed67b4cc7f6c836e4edcd53d6d9a40c6928f1b855981e53c6a98449185a

root@mani-VirtualBox:~#----------> the above is the hash number which was given while pushing ubuntu image.

root@mani-VirtualBox:~# docker ps

CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES

1b06bed67b4c ubuntu "/bin/bash" 2 minutes ago Up 2 minutes condescending\_blackwell

---------------🡪 to check the container status if it is running or not

root@mani-VirtualBox:~# docker exec -it 1b06bed67b4c /bin/bash

--------🡪 this used to go inside of the container.

root@1b06bed67b4c:/#----> I am under the container.

root@1b06bed67b4c:/# apt get-update

root@855e905d4f0b:/# apt-get update

root@855e905d4f0b:/# apt-get install apache2

root@855e905d4f0b:/# exit

exit

root@mani-VirtualBox:~# docker ps

CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES

855e905d4f0b ubuntu "/bin/bash" 3 minutes ago Up 3 minutes cranky\_hypatia

root@mani-VirtualBox:~# docker stop 855e905d4f0b------🡪 for stoping container

855e905d4f0b

root@mani-VirtualBox:~# docker ps

CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES

root@mani-VirtualBox:~# docker ps –a---🡪all the containers status include stopped images will be seen hear

CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES

855e905d4f0b ubuntu "/bin/bash" 4 minutes ago Exited (137) 41 seconds ago cranky\_hypatia

root@mani-VirtualBox:~# docker pull ubuntu:16.04

root@mani-VirtualBox:~# docker images

REPOSITORY TAG IMAGE ID CREATED SIZE

ubuntu latest 27941809078c 6 weeks ago 77.8MB

ubuntu 16.04 b6f507652425 10 months ago 135MB

Installing and using ubuntu.when ever the container is created it will assign the ip address of subnet 172.17.0.1,2,3,4,5 etc we need to expose the expose the port number of docker with my host so that I can access my application which is running on docker.

Docker run on its own network and that network is a private network it never use public network.

root@mani-VirtualBox:~# apt install net-tools

root@mani-VirtualBox:~# ifconfig

docker0: flags=4099<UP,BROADCAST,MULTICAST> mtu 1500

inet 172.17.0.1(b class network) netmask 255.255.0.0 broadcast 172.17.255.255

inet6 fe80::42:d0ff:fe34:b909 prefixlen 64 scopeid 0x20<link>

ether 02:42:d0:34:b9:09 txqueuelen 0 (Ethernet)

RX packets 10862 bytes 697105 (697.1 KB)

RX errors 0 dropped 0 overruns 0 frame 0

TX packets 18816 bytes 48795564 (48.7 MB)

TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

enp0s3: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500

inet 192.168.1.103 netmask 255.255.255.0 broadcast 192.168.1.255

inet6 fe80::662b:7e99:67e5:72fd prefixlen 64 scopeid 0x20<link>

ether 08:00:27:f9:6f:2c txqueuelen 1000 (Ethernet)

RX packets 170763 bytes 250197817 (250.1 MB)

RX errors 0 dropped 0 overruns 0 frame 0

TX packets 57305 bytes 4557085 (4.5 MB)

TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

lo: flags=73<UP,LOOPBACK,RUNNING> mtu 65536

inet 127.0.0.1 netmask 255.0.0.0

inet6 ::1 prefixlen 128 scopeid 0x10<host>

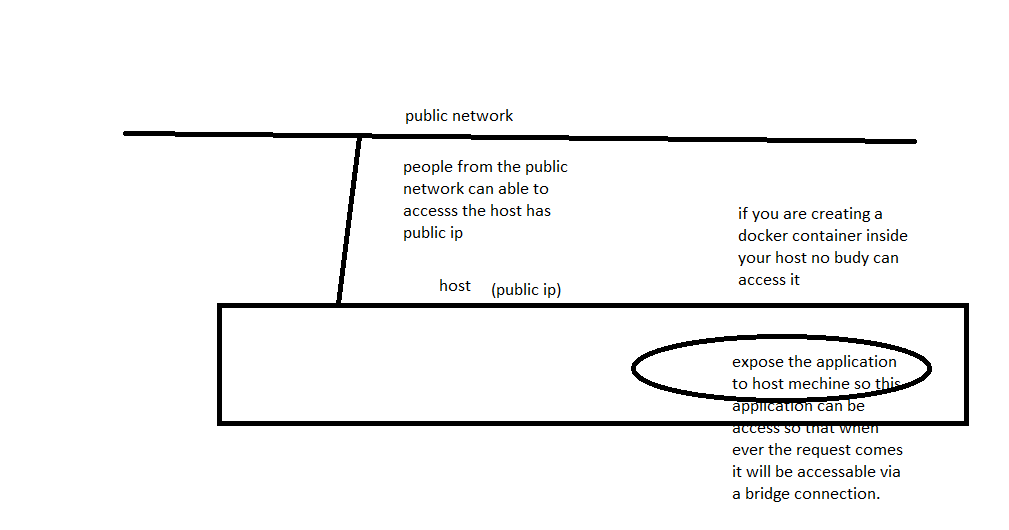
loop txqueuelen 1000 (Local Loopback)

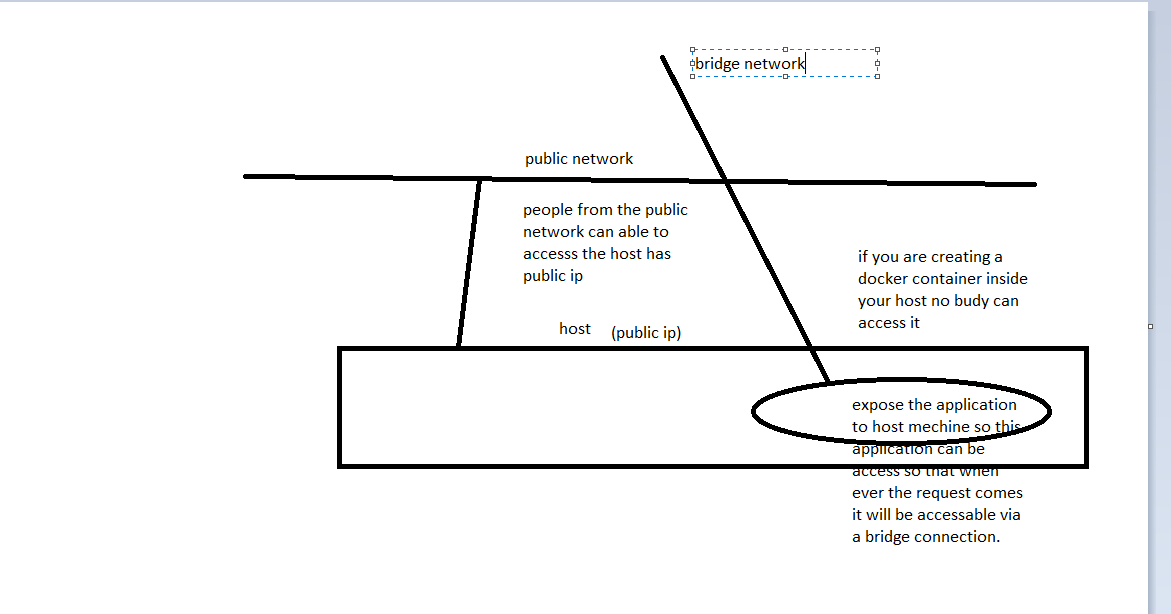
RX packets 416 bytes 43540 (43.5 KB)

RX errors 0 dropped 0 overruns 0 frame 0

TX packets 416 bytes 43540 (43.5 KB)

TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0





docker0: flags=4099<UP,BROADCAST,MULTICAST> mtu 1500(docker is installed by default and bridge network is created whenever we are setting up the docked).

root@mani-VirtualBox:~# docker images

ubuntu latest 27941809078c 6 weeks ago 77.8MB

ubuntu 16.04 b6f507652425 10 months ago 135MB

docker run -it -p 80:80 --name apache 27941809078c /bin/bash--🡪 this is for creating container.

This will create a container and it will jump in to this container and it will stop once we logged off.so we are running it in a demon mode in the background.so that it wont stop if we log off also

(80:80) first 80 is for host and second 80 is for container.

root@mani-VirtualBox:~# docker run -it -d -p 80:80 --name apache1 27941809078c /bin/bash

2bf24f2faaf536d2a7859620da2abcf0d71d67713d56ed42d8fcdce490a41bf2

root@mani-VirtualBox:~# docker ps(any request from port 80 will redirect to this container)

CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES

2bf24f2faaf5 27941809078c "/bin/bash" 17 seconds ago Up 17 seconds 0.0.0.0:80->80/tcp, :::80->80/tcp apache1

root@mani-VirtualBox:~# docker exec -it 2bf24f2faaf5 /bin/bash

root@2bf24f2faaf5:/# apt-get update

root@2bf24f2faaf5:/# apt-get install apache2

root@2bf24f2faaf5:/# ps -ef | grep -i apache

root@2bf24f2faaf5:/# apache2ctl start

AH00558: apache2: Could not reliably determine the server's fully qualified domain name, using 172.17.0.2. Set the 'ServerName' directive globally to suppress this message

root@2bf24f2faaf5:/# ps -ef | grep -i apache

root 3173 1 0 09:43 ? 00:00:00 /usr/sbin/apache2 -k start

www-data 3174 3173 0 09:43 ? 00:00:00 /usr/sbin/apache2 -k start

www-data 3175 3173 0 09:43 ? 00:00:00 /usr/sbin/apache2 -k start

root 3231 8 0 09:43 pts/1 00:00:00 grep --color=auto -i apache

([http://192.168.1.103/---->we](http://192.168.1.103/----%3ewe) can check it using this ip address if host from web browser).

Note: whenever the image got created don’t do anything don’t disturb it

root@mani-VirtualBox:~# docker search ubuntu----🡪 to check the list of images with ubuntu.

root@mani-VirtualBox:~# docker ps

CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES

2bf24f2faaf5 27941809078c "/bin/bash" 22 minutes ago Up 22 minutes 0.0.0.0:80->80/tcp, :::80->80/tcp apache1

root@mani-VirtualBox:~# docker commit 2bf24f2faaf5 maniapache

sha256:eb335ca5c3a7d41d2ae2597a735dbb017060dddef342ee70cc2693d1715af5ff

root@mani-VirtualBox:~# docker images

REPOSITORY TAG IMAGE ID CREATED SIZE

maniapache latest eb335ca5c3a7 9 seconds ago 221MB

ubuntu latest 27941809078c 6 weeks ago 77.8MB

ubuntu 16.04 b6f507652425 10 months ago 135MB

root@mani-VirtualBox:~#

The above will show the list of images.and create the new container as same as the old one.

root@mani-VirtualBox:~# docker run -it -d -p 8080:80 --name apache2 maniapache /bin/bash

ca8411db0e22be3e6f956b021bd1737b83323bd96fbcb72d55f3393d209ac0a3

root@mani-VirtualBox:~# docker ps

CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES

ca8411db0e22 maniapache "/bin/bash" 3 seconds ago Up 2 seconds 0.0.0.0:8080->80/tcp, :::8080->80/tcp apache2

2bf24f2faaf5 27941809078c "/bin/bash" 27 minutes ago Up 27 minutes 0.0.0.0:80->80/tcp, :::80->80/tcp apache1

root@mani-VirtualBox:~# docker exec -it ca8411db0e22 /bin/bash

root@ca8411db0e22:/# apache2ctl start

AH00558: apache2: Could not reliably determine the server's fully qualified domain name, using 172.17.0.3. Set the 'ServerName' directive globally to suppress this message

<http://192.168.1.103:8080/>

this above url is used to connect to the apache which is in maniapache.

root@mani-VirtualBox:~# docker ps

CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES

ca8411db0e22 maniapache "/bin/bash" 18 minutes ago Up 18 minutes 0.0.0.0:8080->80/tcp, :::8080->80/tcp apache2

2bf24f2faaf5 27941809078c "/bin/bash" 45 minutes ago Up 45 minutes 0.0.0.0:80->80/tcp, :::80->80/tcp apache1

root@mani-VirtualBox:~# docker kill ca8411db0e22---🡪 to kill the

ca8411db0e22

root@mani-VirtualBox:~# docker ps

CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES

ca8411db0e22 maniapache "/bin/bash" 18 minutes ago Up 18 minutes 0.0.0.0:8080->80/tcp, :::8080->80/tcp apache2

2bf24f2faaf5 27941809078c "/bin/bash" 45 minutes ago Up 45 minutes 0.0.0.0:80->80/tcp, :::80->80/tcp apache1

root@mani-VirtualBox:~# docker kill ca8411db0e22(this is killing the image forcefully)

ca8411db0e22

root@mani-VirtualBox:~# docker ps

CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES

2bf24f2faaf5 27941809078c "/bin/bash" 50 minutes ago Up 50 minutes 0.0.0.0:80->80/tcp, :::80->80/tcp apache1

root@mani-VirtualBox:~# docker ps -a

CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES

ca8411db0e22 maniapache "/bin/bash" 24 minutes ago Exited (137) 6 minutes ago apache2

2bf24f2faaf5 27941809078c "/bin/bash" 51 minutes ago Up 51 minutes 0.0.0.0:80->80/tcp, :::80->80/tcp apache1

979160e26168 27941809078c "/bin/bash" About an hour ago Exited (0) 55 minutes ago apache

855e905d4f0b ubuntu "/bin/bash" 2 hours ago Exited (137) 2 hours ago cranky\_hypatia

root@mani-VirtualBox:~# docker rm ca8411db0e22

ca8411db0e22

root@mani-VirtualBox:~# docker ps -a

CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES

2bf24f2faaf5 27941809078c "/bin/bash" 52 minutes ago Up 52 minutes 0.0.0.0:80->80/tcp, :::80->80/tcp apache1

979160e26168 27941809078c "/bin/bash" About an hour ago Exited (0) 55 minutes ago apache

855e905d4f0b ubuntu "/bin/bash" 2 hours ago Exited (137) 2 hours ago cranky\_hypatia

root@mani-VirtualBox:~#

root@mani-VirtualBox:~# docker images

REPOSITORY TAG IMAGE ID CREATED SIZE

maniapache latest eb335ca5c3a7 30 minutes ago 221MB

ubuntu latest 27941809078c 6 weeks ago 77.8MB

ubuntu 16.04 b6f507652425 10 months ago 135MB

root@mani-VirtualBox:~# docker rmi eb335ca5c3a7

Untagged: maniapache:latest

Deleted: sha256:eb335ca5c3a7d41d2ae2597a735dbb017060dddef342ee70cc2693d1715af5ff

Deleted: sha256:b6665ab2f1f1aa7aee5b1d9b9cbae6ee17bef5777e1bc781a5f179d1cf27dbca

root@mani-VirtualBox:~# docker images

REPOSITORY TAG IMAGE ID CREATED SIZE

ubuntu latest 27941809078c 6 weeks ago 77.8MB

ubuntu 16.04 b6f507652425 10 months ago 135MB

<https://hub.docker.com/>

above is the docker hub logins we can use this to push the images.

root@mani-VirtualBox:~# docker commit 2bf24f2faaf5 demoubuntu

sha256:fa3416960ebbe73f3a81986c63bb59edd92347f0eb3f2c3bbdf3abaec6da67f7

root@mani-VirtualBox:~# docker login

Login with your Docker ID to push and pull images from Docker Hub. If you don't have a Docker ID, head over to https://hub.docker.com to create one.

Username: musum

Password:

WARNING! Your password will be stored unencrypted in /root/.docker/config.json.

Configure a credential helper to remove this warning. See

https://docs.docker.com/engine/reference/commandline/login/#credentials-store

Login Succeeded

Above are the steps to login to the docker hub and to push the images there.

root@mani-VirtualBox:~# docker tag demoubuntu musum/demoubuntu

root@mani-VirtualBox:~# docker images

REPOSITORY TAG IMAGE ID CREATED SIZE

demoubuntu latest fa3416960ebb 6 minutes ago 221MB

musum/demoubuntu latest fa3416960ebb 6 minutes ago 221MB

ubuntu latest 27941809078c 6 weeks ago 77.8MB

ubuntu 16.04 b6f507652425 10 months ago 135MB

root@mani-VirtualBox:~# docker push musum/demoubuntu

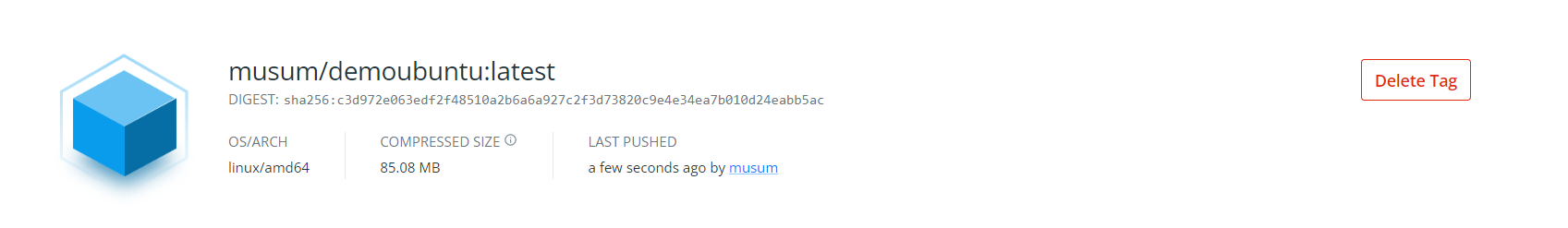
Using default tag: latest

The push refers to repository [docker.io/musum/demoubuntu]

deafe6c54d4d: Pushed

a790f937a6ae: Mounted from library/ubuntu

latest: digest: sha256:c3d972e063edf2f48510a2b6a6a927c2f3d73820c9e4e34ea7b010d24eabb5ac size: 741



This image is pushed to docker hub.

Note: containers are nothing but a process.

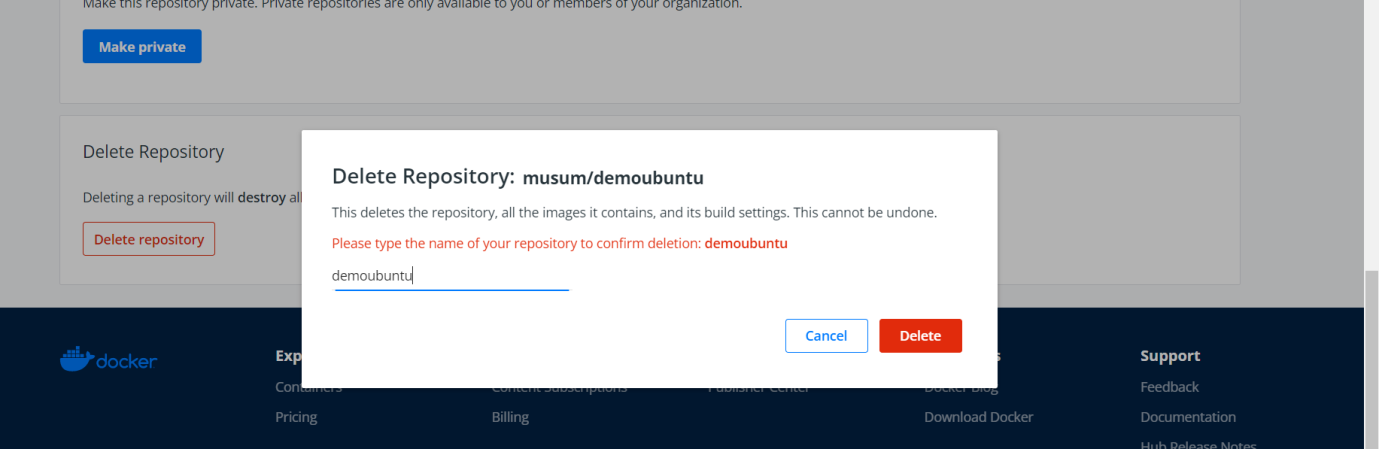
/bin/bash-🡪 this is a process which is running continuously without stopping so this command is used to run the container continuously so we are using this to run the containers.

/var/lib/docker---------.> everything will be coming hear home location

Application specifc images has a continuous running process.

We can run multiple applications same one but different port

Dockers are volatile in nature because of resource crunch this will get destroyed.



The above will delete the repository. Completely.

root@mani-VirtualBox:~# docker pull registry

Using default tag: latest

latest: Pulling from library/registry

530afca65e2e: Pull complete

d450d4da0343: Pull complete

96277bea17b6: Pull complete

470ad04e03fb: Pull complete

bd3d4dc6e66f: Pull complete

Digest: sha256:c631a581c6152f5a4a141a974b74cf308ab2ee660287a3c749d88e0b536c0c20

Status: Downloaded newer image for registry:latest

docker.io/library/registry: latest

root@mani-VirtualBox:~# docker images

REPOSITORY TAG IMAGE ID CREATED SIZE

demoubuntu latest fa3416960ebb 6 hours ago 221MB

musum/demoubuntu latest fa3416960ebb 6 hours ago 221MB

registry latest d1fe2eaf6101 3 days ago 24.1MB

ubuntu latest 27941809078c 6 weeks ago 77.8MB

ubuntu 16.04 b6f507652425 10 months ago 135MB

root@mani-VirtualBox:~# docker run -d -p 5000:5000 --name localregistry registry

ceb335fd96575e4e20710a30558be8c0c003fa6c4dd12edcb9322c0c6f6fe281

Local repository (localhost: 5000).

Localhost:5000/demoubuntu

root@mani-VirtualBox:~# docker ps

CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES

ceb335fd9657 registry "/entrypoint.sh /etc…" 4 minutes ago Up 4 minutes 0.0.0.0:5000->5000/tcp, :::5000->5000/tcp localregistry

2bf24f2faaf5 27941809078c "/bin/bash" 7 hours ago Up 7 hours 0.0.0.0:80->80/tcp, :::80->80/tcp apache1

root@mani-VirtualBox:~# docker tag demoubuntu localhost:5000/demoubuntu

root@mani-VirtualBox:~# docker images

REPOSITORY TAG IMAGE ID CREATED SIZE

demoubuntu latest fa3416960ebb 6 hours ago 221MB

musum/demoubuntu latest fa3416960ebb 6 hours ago 221MB

localhost:5000/demoubuntu latest fa3416960ebb 6 hours ago 221MB

registry latest d1fe2eaf6101 3 days ago 24.1MB

ubuntu latest 27941809078c 6 weeks ago 77.8MB

ubuntu 16.04 b6f507652425 10 months ago 135MB

root@mani-VirtualBox:~# docker push localhost:5000/demoubuntu

Using default tag: latest

The push refers to repository [localhost:5000/demoubuntu]

deafe6c54d4d: Pushed

a790f937a6ae: Pushed

latest: digest: sha256:c3d972e063edf2f48510a2b6a6a927c2f3d73820c9e4e34ea7b010d24eabb5ac size: 741

root@mani-VirtualBox:~# docker images

REPOSITORY TAG IMAGE ID CREATED SIZE

musum/demoubuntu latest fa3416960ebb 6 hours ago 221MB

localhost:5000/demoubuntu latest fa3416960ebb 6 hours ago 221MB

demoubuntu latest fa3416960ebb 6 hours ago 221MB

registry latest d1fe2eaf6101 3 days ago 24.1MB

ubuntu latest 27941809078c 6 weeks ago 77.8MB

ubuntu 16.04 b6f507652425 10 months ago 135MB

root@mani-VirtualBox:~# docker rmi musum/demoubuntu localhost:5000/demoubuntu demoubuntu

Untagged: musum/demoubuntu:latest

Untagged: musum/demoubuntu@sha256:c3d972e063edf2f48510a2b6a6a927c2f3d73820c9e4e34ea7b010d24eabb5ac

Untagged: localhost:5000/demoubuntu:latest

Untagged: localhost:5000/demoubuntu@sha256:c3d972e063edf2f48510a2b6a6a927c2f3d73820c9e4e34ea7b010d24eabb5ac

Untagged: demoubuntu:latest

Deleted: sha256:fa3416960ebbe73f3a81986c63bb59edd92347f0eb3f2c3bbdf3abaec6da67f7

Deleted: sha256:b6665ab2f1f1aa7aee5b1d9b9cbae6ee17bef5777e1bc781a5f179d1cf27dbca

root@mani-VirtualBox:~# docker images

REPOSITORY TAG IMAGE ID CREATED SIZE

registry latest d1fe2eaf6101 3 days ago 24.1MB

ubuntu latest 27941809078c 6 weeks ago 77.8MB

ubuntu 16.04 b6f507652425 10 months ago 135MB

root@mani-VirtualBox:~# docker pull localhost:5000/demoubuntu

Using default tag: latest

latest: Pulling from demoubuntu

405f018f9d1d: Already exists

7c41a791ce43: Pull complete

Digest: sha256:c3d972e063edf2f48510a2b6a6a927c2f3d73820c9e4e34ea7b010d24eabb5ac

Status: Downloaded newer image for localhost:5000/demoubuntu:latest

localhost:5000/demoubuntu:latest

root@mani-VirtualBox:~#

root@mani-VirtualBox:~# docker images

REPOSITORY TAG IMAGE ID CREATED SIZE

localhost:5000/demoubuntu latest fa3416960ebb 6 hours ago 221MB

registry latest d1fe2eaf6101 3 days ago 24.1MB

ubuntu latest 27941809078c 6 weeks ago 77.8MB

ubuntu 16.04 b6f507652425 10 months ago 135MB

creating docker file:

example:

from ubuntu

RUN apt-get update

Run apt-get –y install apache2

add . /var/www/html

CMD apachectl –D FORCEGROUND--🡪 this can be over written by providing the command line argument (we can start with bash also).

ENTRYPOINT apachectl –D FORCEGROUND--🡪 this cant be over written while starting we can start it using apache and then it will start with bash.

ENV name Devops intellipaat

Add will directly unzip the file. But copy won’t unzip the file.

root@mani-VirtualBox:~# docker images

REPOSITORY TAG IMAGE ID CREATED SIZE

localhost:5000/demoubuntu latest fa3416960ebb 18 hours ago 221MB

registry latest d1fe2eaf6101 4 days ago 24.1MB

ubuntu latest 27941809078c 6 weeks ago 77.8MB

ubuntu 16.04 b6f507652425 10 months ago 135MB

root@mani-VirtualBox:~#

root@mani-VirtualBox:~# cat Dockerfile

FROM ubuntu:16.04

RUN apt-get update

RUN apt-get install apache2 -y

ADD index.html /var/www/html

EXPOSE 80

ENV Name Devops

CMD apachectl -D FOREGROUND

root@mani-VirtualBox:~# docker images

REPOSITORY TAG IMAGE ID CREATED SIZE

localhost:5000/demoubuntu latest fa3416960ebb 18 hours ago 221MB

registry latest d1fe2eaf6101 4 days ago 24.1MB

ubuntu latest 27941809078c 6 weeks ago 77.8MB

ubuntu 16.04 b6f507652425 10 months ago 135MB

root@mani-VirtualBox:~# echo "hellow world" > index.html

root@mani-VirtualBox:~# docker build -t testapache .

root@mani-VirtualBox:~# docker images

REPOSITORY TAG IMAGE ID CREATED SIZE

testapache latest 191dbe55f70c 23 seconds ago 265MB

localhost:5000/demoubuntu latest fa3416960ebb 18 hours ago 221MB

registry latest d1fe2eaf6101 4 days ago 24.1MB

ubuntu latest 27941809078c 6 weeks ago 77.8MB

ubuntu 16.04 b6f507652425 10 months ago 135MB

root@mani-VirtualBox:~# docker images

REPOSITORY TAG IMAGE ID CREATED SIZE

testapache latest 191dbe55f70c 23 seconds ago 265MB

localhost:5000/demoubuntu latest fa3416960ebb 18 hours ago 221MB

registry latest d1fe2eaf6101 4 days ago 24.1MB

ubuntu latest 27941809078c 6 weeks ago 77.8MB

ubuntu 16.04 b6f507652425 10 months ago 135MB

root@mani-VirtualBox:~# docker run -d testapache

378525ed4d6a1b7abd1bb4cc1e83bcd8fa909d7afdf4f68968896bed5850866d

root@mani-VirtualBox:~# docker ps

CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES

378525ed4d6a testapache "/bin/sh -c 'apachec…" 40 seconds ago Up 39 seconds 80/tcp objective\_hamilton

ceb335fd9657 registry "/entrypoint.sh /etc…" 12 hours ago Up 12 hours 0.0.0.0:5000->5000/tcp, :::5000->5000/tcp localregistry

2bf24f2faaf5 27941809078c "/bin/bash" 20 hours ago Up 20 hours 0.0.0.0:80->80/tcp, :::80->80/tcp apache1

root@mani-VirtualBox:~# docker run -d -p 8081:80 testapache

96b99ed2870d29f024ccc692e2bf1226e4473754ef82ec2e90e8a4b166d5343f

root@mani-VirtualBox:~# docker ps

CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES

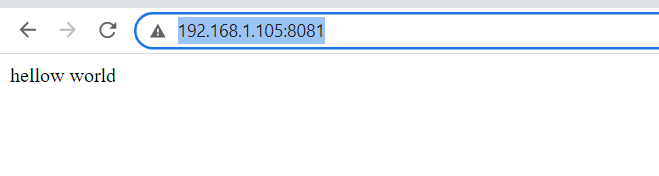
96b99ed2870d testapache "/bin/sh -c 'apachec…" 10 seconds ago Up 9 seconds 0.0.0.0:8081->80/tcp, :::8081->80/tcp objective\_gauss

378525ed4d6a testapache "/bin/sh -c 'apachec…" About a minute ago Up About a minute 80/tcp objective\_hamilton

ceb335fd9657 registry "/entrypoint.sh /etc…" 12 hours ago Up 12 hours 0.0.0.0:5000->5000/tcp, :::5000->5000/tcp localregistry

2bf24f2faaf5 27941809078c "/bin/bash" 20 hours ago Up 20 hours 0.0.0.0:80->80/tcp, :::80->80/tcp apache1

<http://192.168.1.105:8081/>



root@mani-VirtualBox:~# docker run -it -d -p 8082:80 testapache /bin/bash

3a54f07dcc322d1304cbd50f923e07170e83dfe457295ad138433067304dff8a

root@mani-VirtualBox:~# docker ps

CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES

3a54f07dcc32 testapache "/bin/bash" 12 seconds ago Up 11 seconds 0.0.0.0:8082->80/tcp, :::8082->80/tcp hardcore\_poitras

96b99ed2870d testapache "/bin/sh -c 'apachec…" 3 minutes ago Up 3 minutes 0.0.0.0:8081->80/tcp, :::8081->80/tcp objective\_gauss

378525ed4d6a testapache "/bin/sh -c 'apachec…" 5 minutes ago Up 5 minutes 80/tcp objective\_hamilton

ceb335fd9657 registry "/entrypoint.sh /etc…" 12 hours ago Up 12 hours 0.0.0.0:5000->5000/tcp, :::5000->5000/tcp localregistry

2bf24f2faaf5 27941809078c "/bin/bash" 20 hours ago Up 20 hours 0.0.0.0:80->80/tcp, :::80->80/tcp apache1

In the above one we are starting the /bin/bash with the help of apache previously we have ran it with cmd so we are again changing it to /bin/bash

<http://192.168.1.105:8082/>

we cant able to access it because it is overriding the apache.

root@mani-VirtualBox:~# cat Dockerfile

FROM ubuntu:16.04

RUN apt-get update

RUN apt-get install apache2 -y

ADD index.html /var/www/html

EXPOSE 80

ENV Name Devops

ENTRYPOINT apachectl -D FOREGROUND

root@mani-VirtualBox:~# docker build -t testapache .

root@mani-VirtualBox:~# docker run -it -d -p 8083:80 testapache /bin/bash

a2323b6d215f001d55561f4b86c846a502ab474e3bb212bc2063ebc7167ee5c7

root@mani-VirtualBox:~# docker ps

CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES

a2323b6d215f testapache "/bin/sh -c 'apachec…" 14 seconds ago Up 13 seconds 0.0.0.0:8083->80/tcp, :::8083->80/tcp happy\_wing

3a54f07dcc32 191dbe55f70c "/bin/bash" 5 minutes ago Up 5 minutes 0.0.0.0:8082->80/tcp, :::8082->80/tcp hardcore\_poitras

96b99ed2870d 191dbe55f70c "/bin/sh -c 'apachec…" 8 minutes ago Up 8 minutes 0.0.0.0:8081->80/tcp, :::8081->80/tcp objective\_gauss

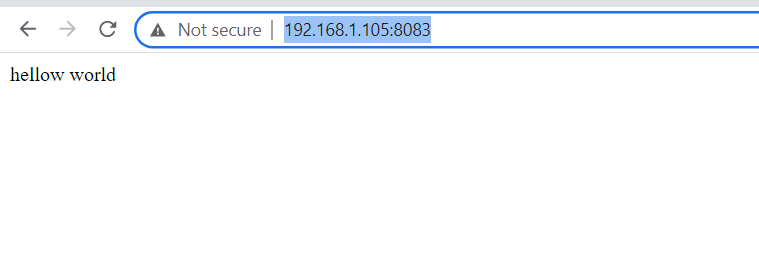
378525ed4d6a 191dbe55f70c "/bin/sh -c 'apachec…" 10 minutes ago Up 10 minutes 80/tcp objective\_hamilton

ceb335fd9657 registry "/entrypoint.sh /etc…" 12 hours ago Up 12 hours 0.0.0.0:5000->5000/tcp, :::5000->5000/tcp localregistry

2bf24f2faaf5 27941809078c "/bin/bash" 20 hours ago Up 20 hours 0.0.0.0:80->80/tcp, :::80->80/tcp apache1

The above is starting the apache and after passing the arguments /bin/bash also it is not stopped starting the apache it is still running.

<http://192.168.1.105:8083/>



root@mani-VirtualBox:~# docker logs a2323b6d215f

AH00558: apache2: Could not reliably determine the server's fully qualified domain name, using 172.17.0.7. Set the 'ServerName' directive globally to suppress this message

root@mani-VirtualBox:~# docker logs -f a2323b6d215f

root@mani-VirtualBox:~# docker run -d jenkins:2.60.3

Unable to find image 'jenkins:2.60.3' locally

2.60.3: Pulling from library/Jenkins

root@mani-VirtualBox:~# docker ps

CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES

7f7c1cae59df jenkins:2.60.3 "/bin/tini -- /usr/l…" 49 seconds ago Up 48 seconds 8080/tcp, 50000/tcp vigilant\_khayyam

a2323b6d215f testapache "/bin/sh -c 'apachec…" 21 minutes ago Up 21 minutes 0.0.0.0:8083->80/tcp, :::8083->80/tcp happy\_wing

3a54f07dcc32 191dbe55f70c "/bin/bash" 26 minutes ago Up 26 minutes 0.0.0.0:8082->80/tcp, :::8082->80/tcp hardcore\_poitras

96b99ed2870d 191dbe55f70c "/bin/sh -c 'apachec…" 29 minutes ago Up 29 minutes 0.0.0.0:8081->80/tcp, :::8081->80/tcp objective\_gauss

378525ed4d6a 191dbe55f70c "/bin/sh -c 'apachec…" 31 minutes ago Up 31 minutes 80/tcp objective\_hamilton

ceb335fd9657 registry "/entrypoint.sh /etc…" 13 hours ago Up 13 hours 0.0.0.0:5000->5000/tcp, :::5000->5000/tcp localregistry

2bf24f2faaf5 27941809078c "/bin/bash" 20 hours ago Up 20 hours 0.0.0.0:80->80/tcp, :::80->80/tcp apache1

root@mani-VirtualBox:~# docker images

REPOSITORY TAG IMAGE ID CREATED SIZE

testapache latest 44e9af581369 21 minutes ago 265MB

<none> <none> 191dbe55f70c 32 minutes ago 265MB

localhost:5000/demoubuntu latest fa3416960ebb 19 hours ago 221MB

registry latest d1fe2eaf6101 4 days ago 24.1MB

ubuntu latest 27941809078c 6 weeks ago 77.8MB

ubuntu 16.04 b6f507652425 10 months ago 135MB

jenkins 2.60.3 cd14cecfdb3a 4 years ago 696MB

root@mani-VirtualBox:~# docker logs 7f7c1cae59df

Running from: /usr/share/jenkins/jenkins.war

webroot: EnvVars.masterEnvVars.get("JENKINS\_HOME")

Jul 23, 2022 5:43:54 AM Main deleteWinstoneTempContents

WARNING: Failed to delete the temporary Winstone file /tmp/winstone/jenkins.war

Jul 23, 2022 5:43:54 AM org.eclipse.jetty.util.log.JavaUtilLog info

INFO: Logging initialized @463ms

Jul 23, 2022 5:43:54 AM winstone.Logger logInternal

INFO: Beginning extraction from war file

Jul 23, 2022 5:43:55 AM org.eclipse.jetty.util.log.JavaUtilLog warn

WARNING: Empty contextPath

Jul 23, 2022 5:43:55 AM org.eclipse.jetty.util.log.JavaUtilLog info

INFO: jetty-9.2.z-SNAPSHOT

Jul 23, 2022 5:43:56 AM org.eclipse.jetty.util.log.JavaUtilLog info

INFO: NO JSP Support for /, did not find org.eclipse.jetty.jsp.JettyJspServlet

Jenkins home directory: /var/jenkins\_home found at: EnvVars.masterEnvVars.get("JENKINS\_HOME")

Jul 23, 2022 5:43:57 AM org.eclipse.jetty.util.log.JavaUtilLog info

INFO: Started w.@47404bea{/,file:/var/jenkins\_home/war/,AVAILABLE}{/var/jenkins\_home/war}

Jul 23, 2022 5:43:57 AM org.eclipse.jetty.util.log.JavaUtilLog info

INFO: Started ServerConnector@1c80e49b{HTTP/1.1}{0.0.0.0:8080}

Jul 23, 2022 5:43:57 AM org.eclipse.jetty.util.log.JavaUtilLog info

INFO: Started @3164ms

Jul 23, 2022 5:43:57 AM winstone.Logger logInternal

INFO: Winstone Servlet Engine v2.0 running: controlPort=disabled

Jul 23, 2022 5:43:58 AM jenkins.InitReactorRunner$1 onAttained

INFO: Started initialization

Jul 23, 2022 5:43:58 AM jenkins.InitReactorRunner$1 onAttained

INFO: Listed all plugins

Jul 23, 2022 5:43:59 AM jenkins.InitReactorRunner$1 onAttained

INFO: Prepared all plugins

Jul 23, 2022 5:43:59 AM jenkins.InitReactorRunner$1 onAttained

INFO: Started all plugins

Jul 23, 2022 5:43:59 AM jenkins.InitReactorRunner$1 onAttained

INFO: Augmented all extensions

Jul 23, 2022 5:44:02 AM jenkins.InitReactorRunner$1 onAttained

INFO: Loaded all jobs

Jul 23, 2022 5:44:02 AM hudson.model.AsyncPeriodicWork$1 run

INFO: Started Download metadata

Jul 23, 2022 5:44:02 AM jenkins.util.groovy.GroovyHookScript execute

INFO: Executing /var/jenkins\_home/init.groovy.d/tcp-slave-agent-port.groovy

Jul 23, 2022 5:44:03 AM jenkins.InitReactorRunner$1 onAttained

INFO: Completed initialization

Jul 23, 2022 5:44:03 AM org.springframework.context.support.AbstractApplicationContext prepareRefresh

INFO: Refreshing org.springframework.web.context.support.StaticWebApplicationContext@5955b1f6: display name [Root WebApplicationContext]; startup date [Sat Jul 23 05:44:03 UTC 2022]; root of context hierarchy

Jul 23, 2022 5:44:03 AM org.springframework.context.support.AbstractApplicationContext obtainFreshBeanFactory

INFO: Bean factory for application context [org.springframework.web.context.support.StaticWebApplicationContext@5955b1f6]: org.springframework.beans.factory.support.DefaultListableBeanFactory@4aa571f2

Jul 23, 2022 5:44:03 AM org.springframework.beans.factory.support.DefaultListableBeanFactory preInstantiateSingletons

INFO: Pre-instantiating singletons in org.springframework.beans.factory.support.DefaultListableBeanFactory@4aa571f2: defining beans [authenticationManager]; root of factory hierarchy

Jul 23, 2022 5:44:03 AM org.springframework.context.support.AbstractApplicationContext prepareRefresh

INFO: Refreshing org.springframework.web.context.support.StaticWebApplicationContext@23bd99d3: display name [Root WebApplicationContext]; startup date [Sat Jul 23 05:44:03 UTC 2022]; root of context hierarchy

Jul 23, 2022 5:44:03 AM org.springframework.context.support.AbstractApplicationContext obtainFreshBeanFactory

INFO: Bean factory for application context [org.springframework.web.context.support.StaticWebApplicationContext@23bd99d3]: org.springframework.beans.factory.support.DefaultListableBeanFactory@68c1129b

Jul 23, 2022 5:44:03 AM org.springframework.beans.factory.support.DefaultListableBeanFactory preInstantiateSingletons

INFO: Pre-instantiating singletons in org.springframework.beans.factory.support.DefaultListableBeanFactory@68c1129b: defining beans [filter,legacy]; root of factory hierarchy

Jul 23, 2022 5:44:04 AM jenkins.install.SetupWizard init

INFO:

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Jenkins initial setup is required. An admin user has been created and a password generated.

Please use the following password to proceed to installation:

1ecf415f4dd1479dbf07858af2778094

This may also be found at: /var/jenkins\_home/secrets/initialAdminPassword

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--> setting agent port for jnlp

--> setting agent port for jnlp... done

Jul 23, 2022 5:44:20 AM hudson.model.UpdateSite updateData

SEVERE: ERROR: Signature verification failed in update site &#039;default&#039; <a href='#' class='showDetails'>(show details)</a><pre style='display:none'>java.security.SignatureException: Signature length not correct: got 512 but was expecting 256<br> at sun.security.rsa.RSASignature.engineVerify(RSASignature.java:189)<br> at java.security.Signature$Delegate.engineVerify(Signature.java:1222)<br> at java.security.Signature.verify(Signature.java:655)<br> at sun.security.x509.X509CertImpl.verify(X509CertImpl.java:444)<br> at sun.security.provider.certpath.BasicChecker.verifySignature(BasicChecker.java:166)<br> at sun.security.provider.certpath.BasicChecker.check(BasicChecker.java:147)<br> at sun.security.provider.certpath.PKIXMasterCertPathValidator.validate(PKIXMasterCertPathValidator.java:125)<br>Caused: java.security.cert.CertPathValidatorException: signature check failed<br> at sun.security.provider.certpath.PKIXMasterCertPathValidator.validate(PKIXMasterCertPathValidator.java:135)<br> at sun.security.provider.certpath.PKIXCertPathValidator.validate(PKIXCertPathValidator.java:233)<br> at sun.security.provider.certpath.PKIXCertPathValidator.validate(PKIXCertPathValidator.java:141)<br> at sun.security.provider.certpath.PKIXCertPathValidator.engineValidate(PKIXCertPathValidator.java:80)<br> at java.security.cert.CertPathValidator.validate(CertPathValidator.java:292)<br> at org.jvnet.hudson.crypto.CertificateUtil.validatePath(CertificateUtil.java:93)<br> at jenkins.util.JSONSignatureValidator.verifySignature(JSONSignatureValidator.java:78)<br> at hudson.model.UpdateSite.verifySignature(UpdateSite.java:254)<br> at hudson.model.UpdateSite.updateData(UpdateSite.java:219)<br> at hudson.model.UpdateSite.updateDirectlyNow(UpdateSite.java:190)<br> at hudson.PluginManager.doCheckUpdatesServer(PluginManager.java:1632)<br> at jenkins.model.DownloadSettings$DailyCheck.execute(DownloadSettings.java:131)<br> at hudson.model.AsyncPeriodicWork$1.run(AsyncPeriodicWork.java:101)<br> at java.lang.Thread.run(Thread.java:748)<br></pre>

Jul 23, 2022 5:44:20 AM hudson.model.AsyncPeriodicWork$1 run

INFO: Finished Download metadata. 18,458 ms

Jul 23, 2022 5:44:24 AM hudson.model.UpdateSite updateData

SEVERE: ERROR: Signature verification failed in update site &#039;default&#039; <a href='#' class='showDetails'>(show details)</a><pre style='display:none'>java.security.SignatureException: Signature length not correct: got 512 but was expecting 256<br> at sun.security.rsa.RSASignature.engineVerify(RSASignature.java:189)<br> at java.security.Signature$Delegate.engineVerify(Signature.java:1222)<br> at java.security.Signature.verify(Signature.java:655)<br> at sun.security.x509.X509CertImpl.verify(X509CertImpl.java:444)<br> at sun.security.provider.certpath.BasicChecker.verifySignature(BasicChecker.java:166)<br> at sun.security.provider.certpath.BasicChecker.check(BasicChecker.java:147)<br> at sun.security.provider.certpath.PKIXMasterCertPathValidator.validate(PKIXMasterCertPathValidator.java:125)<br>Caused: java.security.cert.CertPathValidatorException: signature check failed<br> at sun.security.provider.certpath.PKIXMasterCertPathValidator.validate(PKIXMasterCertPathValidator.java:135)<br> at sun.security.provider.certpath.PKIXCertPathValidator.validate(PKIXCertPathValidator.java:233)<br> at sun.security.provider.certpath.PKIXCertPathValidator.validate(PKIXCertPathValidator.java:141)<br> at sun.security.provider.certpath.PKIXCertPathValidator.engineValidate(PKIXCertPathValidator.java:80)<br> at java.security.cert.CertPathValidator.validate(CertPathValidator.java:292)<br> at org.jvnet.hudson.crypto.CertificateUtil.validatePath(CertificateUtil.java:93)<br> at jenkins.util.JSONSignatureValidator.verifySignature(JSONSignatureValidator.java:78)<br> at hudson.model.UpdateSite.verifySignature(UpdateSite.java:254)<br> at hudson.model.UpdateSite.updateData(UpdateSite.java:219)<br> at hudson.model.UpdateSite.updateDirectlyNow(UpdateSite.java:190)<br> at hudson.model.UpdateCenter.updateDefaultSite(UpdateCenter.java:2194)<br> at jenkins.install.SetupWizard.init(SetupWizard.java:174)<br> at jenkins.install.InstallState$3.initializeState(InstallState.java:105)<br> at jenkins.model.Jenkins.setInstallState(Jenkins.java:1062)<br> at jenkins.install.InstallUtil.proceedToNextStateFrom(InstallUtil.java:96)<br> at jenkins.model.Jenkins.&lt;init&gt;(Jenkins.java:952)<br> at hudson.model.Hudson.&lt;init&gt;(Hudson.java:86)<br> at hudson.model.Hudson.&lt;init&gt;(Hudson.java:82)<br> at hudson.WebAppMain$3.run(WebAppMain.java:235)<br></pre>

Jul 23, 2022 5:44:24 AM hudson.WebAppMain$3 run

INFO: Jenkins is fully up and running

root@mani-VirtualBox:~#

root@mani-VirtualBox:~# docker inspect 7f7c1cae59df

root@mani-VirtualBox:~# docker inspect 7f7c1cae59df

[

{

"Id": "7f7c1cae59df33fa462db2e228aa0d7adb6468dca8ae8b30eb2149be04b76dd7",

"Created": "2022-07-23T05:43:53.157140383Z",

"Path": "/bin/tini",

"Args": [

"--",

"/usr/local/bin/jenkins.sh"

],

"State": {

"Status": "running",

"Running": true,

"Paused": false,

"Restarting": false,

"OOMKilled": false,

"Dead": false,

"Pid": 17291,

"ExitCode": 0,

"Error": "",

"StartedAt": "2022-07-23T05:43:54.214002495Z",

"FinishedAt": "0001-01-01T00:00:00Z"

},

"Image": "sha256:cd14cecfdb3a657ba7d05bea026e7ac8b9abafc6e5c66253ab327c7211fa6281",

"ResolvConfPath": "/var/lib/docker/containers/7f7c1cae59df33fa462db2e228aa0d7adb6468dca8ae8b30eb2149be04b76dd7/resolv.conf",

"HostnamePath": "/var/lib/docker/containers/7f7c1cae59df33fa462db2e228aa0d7adb6468dca8ae8b30eb2149be04b76dd7/hostname",

"HostsPath": "/var/lib/docker/containers/7f7c1cae59df33fa462db2e228aa0d7adb6468dca8ae8b30eb2149be04b76dd7/hosts",

"LogPath": "/var/lib/docker/containers/7f7c1cae59df33fa462db2e228aa0d7adb6468dca8ae8b30eb2149be04b76dd7/7f7c1cae59df33fa462db2e228aa0d7adb6468dca8ae8b30eb2149be04b76dd7-json.log",

"Name": "/vigilant\_khayyam",

"RestartCount": 0,

"Driver": "overlay2",

"Platform": "linux",

"MountLabel": "",

"ProcessLabel": "",

"AppArmorProfile": "docker-default",

"ExecIDs": null,

"HostConfig": {

"Binds": null,

"ContainerIDFile": "",

"LogConfig": {

"Type": "json-file",

"Config": {}

},

"NetworkMode": "default",

"PortBindings": {},

"RestartPolicy": {

"Name": "no",

"MaximumRetryCount": 0

},

"AutoRemove": false,

"VolumeDriver": "",

"VolumesFrom": null,

"CapAdd": null,

"CapDrop": null,

"CgroupnsMode": "private",

"Dns": [],

"DnsOptions": [],

"DnsSearch": [],

"ExtraHosts": null,

"GroupAdd": null,

"IpcMode": "private",

"Cgroup": "",

"Links": null,

"OomScoreAdj": 0,

"PidMode": "",

"Privileged": false,

"PublishAllPorts": false,

"ReadonlyRootfs": false,

"SecurityOpt": null,

"UTSMode": "",

"UsernsMode": "",

"ShmSize": 67108864,

"Runtime": "runc",

"ConsoleSize": [

0,

0

],

"Isolation": "",

"CpuShares": 0,

"Memory": 0,

"NanoCpus": 0,

"CgroupParent": "",

"BlkioWeight": 0,

"BlkioWeightDevice": [],

"BlkioDeviceReadBps": null,

"BlkioDeviceWriteBps": null,

"BlkioDeviceReadIOps": null,

"BlkioDeviceWriteIOps": null,

"CpuPeriod": 0,

"CpuQuota": 0,

"CpuRealtimePeriod": 0,

"CpuRealtimeRuntime": 0,

"CpusetCpus": "",

"CpusetMems": "",

"Devices": [],

"DeviceCgroupRules": null,

"DeviceRequests": null,

"KernelMemory": 0,

"KernelMemoryTCP": 0,

"MemoryReservation": 0,

"MemorySwap": 0,

"MemorySwappiness": null,

"OomKillDisable": null,

"PidsLimit": null,

"Ulimits": null,

"CpuCount": 0,

"CpuPercent": 0,

"IOMaximumIOps": 0,

"IOMaximumBandwidth": 0,

"MaskedPaths": [

"/proc/asound",

"/proc/acpi",

"/proc/kcore",

"/proc/keys",

"/proc/latency\_stats",

"/proc/timer\_list",

"/proc/timer\_stats",

"/proc/sched\_debug",

"/proc/scsi",

"/sys/firmware"

],

"ReadonlyPaths": [

"/proc/bus",

"/proc/fs",

"/proc/irq",

"/proc/sys",

"/proc/sysrq-trigger"

]

},

"GraphDriver": {

"Data": {

"LowerDir": "/var/lib/docker/overlay2/bd80106e419220c5ecb70f64f1e05e0bd47bd30f9ec41f962ba64b09d7a09caf-init/diff:/var/lib/docker/overlay2/637816b3938991c8901f9d24f82dbdcc36b0d5738dc168fbe609bb4094564e06/diff:/var/lib/docker/overlay2/ab90c20c22663c7bd2b7e26536f13217787affef23074497e50d4a8a502eaa57/diff:/var/lib/docker/overlay2/fc4517baee0a5105cedf152ca160bac31e83031b410643e230bdff89f671297d/diff:/var/lib/docker/overlay2/33469679df6cdddfdcc9c59c87aab17c7eed2a6e9f3d6f2fcdd40aae45513c8f/diff:/var/lib/docker/overlay2/d79d955aa9fad989db4c8c4343d9ff6db801921ba3576c909e231df71dd349c5/diff:/var/lib/docker/overlay2/ec923b1549e6073f180f0045bcaaae86a392aeec9d6db6cec68ce825009d0fce/diff:/var/lib/docker/overlay2/3c8c10f3c0e542b3d0d0a993b43b3867d8cd4555397734f4d8f32e795293a97f/diff:/var/lib/docker/overlay2/528b241ce854e9a76eacf328393024f61d9979ac59e44c227b07e7a494b2ed65/diff:/var/lib/docker/overlay2/e930a5cb046a2f296488d420ae2141a5ea0fc2fc780300fbeb299a64b6e76e97/diff:/var/lib/docker/overlay2/5837395e95718b4a3fdeb3276c9a1674fcc5e79d8bfd1936fe22cb9b0f56b51a/diff:/var/lib/docker/overlay2/441d0be93de09e4d6ffef9c11d254d28224cc573b307ed666fbff68b7d29a6a6/diff:/var/lib/docker/overlay2/d02fbcb69d9ba7faafd648e6ff568ca0c48c98fa2a50f7f8b433e9a6c68aa1ad/diff:/var/lib/docker/overlay2/acf9f9fd7a2d06a086e14963572c4b5e6b2f6073b936c9f0f0a1e08dd05a1289/diff:/var/lib/docker/overlay2/aa2fb76cd1b16429bfb31793048334891b3c0a05b9588c4f186b7ce5f21c9fe2/diff:/var/lib/docker/overlay2/48782f1d4b4f1b1950ec732cc289c63460aff90848b005c238261d3da516f34e/diff:/var/lib/docker/overlay2/c5f96131757fcda961f884ee0b579fee7be024eff5c8028b2206ccb335dded8e/diff:/var/lib/docker/overlay2/82e4cc202c8ee34eb3faf5a581c23d993abc6694fccc9a60c60b79df7a26af19/diff:/var/lib/docker/overlay2/1ed11e756456c3c98dd2cf29de0457fe4344eb725bdd0b4ee4964ac7121d4951/diff:/var/lib/docker/overlay2/837f4418385a9edfe13d4e2f7101c27773d0248809af34ffaa3f531160920202/diff:/var/lib/docker/overlay2/691e85d40dba73de17cca5c74653714b5cf7c0b84a58121caed904af4630d284/diff",

"MergedDir": "/var/lib/docker/overlay2/bd80106e419220c5ecb70f64f1e05e0bd47bd30f9ec41f962ba64b09d7a09caf/merged",

"UpperDir": "/var/lib/docker/overlay2/bd80106e419220c5ecb70f64f1e05e0bd47bd30f9ec41f962ba64b09d7a09caf/diff",

"WorkDir": "/var/lib/docker/overlay2/bd80106e419220c5ecb70f64f1e05e0bd47bd30f9ec41f962ba64b09d7a09caf/work"

},

"Name": "overlay2"

},

"Mounts": [

{

"Type": "volume",

"Name": "b036da406a71eaa819d2816ec80c330a551d12b20e286f1ada14b9e750190215",

"Source": "/var/lib/docker/volumes/b036da406a71eaa819d2816ec80c330a551d12b20e286f1ada14b9e750190215/\_data",

"Destination": "/var/jenkins\_home",

"Driver": "local",

"Mode": "",

"RW": true,

"Propagation": ""

}

],

"Config": {

"Hostname": "7f7c1cae59df",

"Domainname": "",

"User": "jenkins",

"AttachStdin": false,

"AttachStdout": false,

"AttachStderr": false,

"ExposedPorts": {

"50000/tcp": {},

"8080/tcp": {}

},

"Tty": false,

"OpenStdin": false,

"StdinOnce": false,

"Env": [

"PATH=/usr/local/sbin:/usr/local/bin:/usr/sbin:/usr/bin:/sbin:/bin",

"LANG=C.UTF-8",

"JAVA\_HOME=/docker-java-home",

"JAVA\_VERSION=8u171",

"JAVA\_DEBIAN\_VERSION=8u171-b11-1~deb9u1",

"CA\_CERTIFICATES\_JAVA\_VERSION=20170531+nmu1",

"JENKINS\_HOME=/var/jenkins\_home",

"JENKINS\_SLAVE\_AGENT\_PORT=50000",

"TINI\_VERSION=0.14.0",

"TINI\_SHA=6c41ec7d33e857d4779f14d9c74924cab0c7973485d2972419a3b7c7620ff5fd",

"JENKINS\_VERSION=2.60.3",

"JENKINS\_UC=https://updates.jenkins.io",

"JENKINS\_UC\_EXPERIMENTAL=https://updates.jenkins.io/experimental",

"COPY\_REFERENCE\_FILE\_LOG=/var/jenkins\_home/copy\_reference\_file.log"

],

"Cmd": null,

"Image": "jenkins:2.60.3",

"Volumes": {

"/var/jenkins\_home": {}

},

"WorkingDir": "",

"Entrypoint": [

"/bin/tini",

"--",

"/usr/local/bin/jenkins.sh"

],

"OnBuild": null,

"Labels": {}

},

"NetworkSettings": {

"Bridge": "",

"SandboxID": "50724fbecbe9b158b0f15a69642d5e9abcc2a04e7c32c96f0b0717a6ea201011",

"HairpinMode": false,

"LinkLocalIPv6Address": "",

"LinkLocalIPv6PrefixLen": 0,

"Ports": {

"50000/tcp": null,

"8080/tcp": null

},

"SandboxKey": "/var/run/docker/netns/50724fbecbe9",

"SecondaryIPAddresses": null,

"SecondaryIPv6Addresses": null,

"EndpointID": "30a29470eb87b66367cde2aa5ec96c39bad90bbe374fec352c6c9c78b1c8d6a7",

"Gateway": "172.17.0.1",

"GlobalIPv6Address": "",

"GlobalIPv6PrefixLen": 0,

"IPAddress": "172.17.0.8",

"IPPrefixLen": 16,

"IPv6Gateway": "",

"MacAddress": "02:42:ac:11:00:08",

"Networks": {

"bridge": {

"IPAMConfig": null,

"Links": null,

"Aliases": null,

"NetworkID": "f424260ea6279ad11d3da9713b0710d2638fc971fb80c5f3969ae4201cee7041",

"EndpointID": "30a29470eb87b66367cde2aa5ec96c39bad90bbe374fec352c6c9c78b1c8d6a7",

"Gateway": "172.17.0.1",

"IPAddress": "172.17.0.8",

"IPPrefixLen": 16,

"IPv6Gateway": "",

"GlobalIPv6Address": "",

"GlobalIPv6PrefixLen": 0,

"MacAddress": "02:42:ac:11:00:08",

"DriverOpts": null

}

}

}

}

]

root@mani-VirtualBox:~#

root@mani-VirtualBox:~# ifconfig

docker0: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500

inet 172.17.0.1 netmask 255.255.0.0 broadcast 172.17.255.255

inet6 fe80::42:d0ff:fe34:b909 prefixlen 64 scopeid 0x20<link>

ether 02:42:d0:34:b9:09 txqueuelen 0 (Ethernet)

RX packets 39193 bytes 61184775 (61.1 MB)

RX errors 0 dropped 0 overruns 0 frame 0

TX packets 58610 bytes 235524038 (235.5 MB)

TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

enp0s3: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500

inet 192.168.1.105 netmask 255.255.255.0 broadcast 192.168.1.255

inet6 fe80::662b:7e99:67e5:72fd prefixlen 64 scopeid 0x20<link>

ether 08:00:27:f9:6f:2c txqueuelen 1000 (Ethernet)

RX packets 878426 bytes 1241883253 (1.2 GB)

RX errors 0 dropped 0 overruns 0 frame 0

TX packets 259157 bytes 79730522 (79.7 MB)

TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

lo: flags=73<UP,LOOPBACK,RUNNING> mtu 65536

inet 127.0.0.1 netmask 255.0.0.0

inet6 ::1 prefixlen 128 scopeid 0x10<host>

loop txqueuelen 1000 (Local Loopback)

RX packets 16924 bytes 149019118 (149.0 MB)

RX errors 0 dropped 0 overruns 0 frame 0

TX packets 16924 bytes 149019118 (149.0 MB)

TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

veth2239c43: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500

inet6 fe80::e088:d2ff:fe6a:3dd4 prefixlen 64 scopeid 0x20<link>

ether e2:88:d2:6a:3d:d4 txqueuelen 0 (Ethernet)

RX packets 10892 bytes 876087 (876.0 KB)

RX errors 0 dropped 0 overruns 0 frame 0

TX packets 19248 bytes 48825600 (48.8 MB)

TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

veth36ec28c: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500

inet6 fe80::5041:42ff:fe94:980 prefixlen 64 scopeid 0x20<link>

ether 52:41:42:94:09:80 txqueuelen 0 (Ethernet)

RX packets 10 bytes 1340 (1.3 KB)

RX errors 0 dropped 0 overruns 0 frame 0

TX packets 57 bytes 6358 (6.3 KB)

TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

veth63adae1: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500

inet6 fe80::3417:54ff:fe4e:6d62 prefixlen 64 scopeid 0x20<link>

ether 36:17:54:4e:6d:62 txqueuelen 0 (Ethernet)

RX packets 16 bytes 1855 (1.8 KB)

RX errors 0 dropped 0 overruns 0 frame 0

TX packets 72 bytes 7781 (7.7 KB)

TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

vetha41fc20: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500

inet6 fe80::7012:b8ff:fea2:e4f7 prefixlen 64 scopeid 0x20<link>

ether 72:12:b8:a2:e4:f7 txqueuelen 0 (Ethernet)

RX packets 9500 bytes 59423631 (59.4 MB)

RX errors 0 dropped 0 overruns 0 frame 0

TX packets 8760 bytes 89822515 (89.8 MB)

TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

vethb2ddc13: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500

inet6 fe80::5042:9bff:fe62:81f7 prefixlen 64 scopeid 0x20<link>

ether 52:42:9b:62:81:f7 txqueuelen 0 (Ethernet)

RX packets 1720 bytes 122270 (122.2 KB)

RX errors 0 dropped 0 overruns 0 frame 0

TX packets 2046 bytes 5446985 (5.4 MB)

TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

vethf1bfcbc: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500

inet6 fe80::8489:eeff:febb:4a3c prefixlen 64 scopeid 0x20<link>

ether 86:89:ee:bb:4a:3c txqueuelen 0 (Ethernet)

RX packets 0 bytes 0 (0.0 B)

RX errors 0 dropped 0 overruns 0 frame 0

TX packets 48 bytes 5092 (5.0 KB)

TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

vethf2c1de3: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500

inet6 fe80::1491:acff:fe40:9a6b prefixlen 64 scopeid 0x20<link>

ether 16:91:ac:40:9a:6b txqueuelen 0 (Ethernet)

RX packets 81 bytes 4302 (4.3 KB)

RX errors 0 dropped 0 overruns 0 frame 0

TX packets 126 bytes 10085 (10.0 KB)

TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

Above each network card is pointing to the each container.

root@mani-VirtualBox:~# ps -ef | grep -i docker

root 4065 1 0 03:41 ? 00:00:42 /usr/bin/dockerd -H fd:// --containerd=/run/containerd/containerd.sock

root 8013 4065 0 04:34 ? 00:00:00 /usr/bin/docker-proxy -proto tcp -host-ip 0.0.0.0 -host-port 80 -container-ip 172.17.0.2 -container-port 80

root 8018 4065 0 04:34 ? 00:00:00 /usr/bin/docker-proxy -proto tcp -host-ip :: -host-port 80 -container-ip 172.17.0.2 -container-port 80

root 12501 4065 0 09:09 ? 00:00:00 /usr/bin/docker-proxy -proto tcp -host-ip 0.0.0.0 -host-port 5000 -container-ip 172.17.0.3 -container-port 5000

root 12506 4065 0 09:09 ? 00:00:00 /usr/bin/docker-proxy -proto tcp -host-ip :: -host-port 5000 -container-ip 172.17.0.3 -container-port 5000

root 12540 12521 0 09:09 ? 00:00:01 registry serve /etc/docker/registry/config.yml

root 16518 4065 0 10:44 ? 00:00:00 /usr/bin/docker-proxy -proto tcp -host-ip 0.0.0.0 -host-port 8081 -container-ip 172.17.0.5 -container-port 80

root 16523 4065 0 10:44 ? 00:00:00 /usr/bin/docker-proxy -proto tcp -host-ip :: -host-port 8081 -container-ip 172.17.0.5 -container-port 80

root 16687 4065 0 10:48 ? 00:00:00 /usr/bin/docker-proxy -proto tcp -host-ip 0.0.0.0 -host-port 8082 -container-ip 172.17.0.6 -container-port 80

root 16692 4065 0 10:48 ? 00:00:00 /usr/bin/docker-proxy -proto tcp -host-ip :: -host-port 8082 -container-ip 172.17.0.6 -container-port 80

root 16811 4065 0 10:53 ? 00:00:00 /usr/bin/docker-proxy -proto tcp -host-ip 0.0.0.0 -host-port 8083 -container-ip 172.17.0.7 -container-port 80

root 16816 4065 0 10:53 ? 00:00:00 /usr/bin/docker-proxy -proto tcp -host-ip :: -host-port 8083 -container-ip 172.17.0.7 -container-port 80

root 17429 13405 0 11:28 pts/6 00:00:00 grep --color=auto -i docker

root@mani-VirtualBox:~# mkdir data

root@mani-VirtualBox:~# cd data

root@mani-VirtualBox:~/data# ls -l

total 0

root@mani-VirtualBox:~/data# touch 1 2 3 4 5

root@mani-VirtualBox:~/data# docker run -it -d -v /data:/tmp ubuntu /bin/bash

1dd999b86a3f61d0ca66cac168c07707e5fce4cb332e3cff24c3848d174e9084

root@mani-VirtualBox:~/data# docker ps

CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES

1dd999b86a3f ubuntu "/bin/bash" 2 minutes ago Up 2 minutes eager\_jackson

7f7c1cae59df jenkins:2.60.3 "/bin/tini -- /usr/l…" 26 minutes ago Up 26 minutes 8080/tcp, 50000/tcp vigilant\_khayyam

a2323b6d215f testapache "/bin/sh -c 'apachec…" 47 minutes ago Up 47 minutes 0.0.0.0:8083->80/tcp, :::8083->80/tcp happy\_wing

3a54f07dcc32 191dbe55f70c "/bin/bash" 52 minutes ago Up 52 minutes 0.0.0.0:8082->80/tcp, :::8082->80/tcp hardcore\_poitras

96b99ed2870d 191dbe55f70c "/bin/sh -c 'apachec…" 55 minutes ago Up 55 minutes 0.0.0.0:8081->80/tcp, :::8081->80/tcp objective\_gauss

378525ed4d6a 191dbe55f70c "/bin/sh -c 'apachec…" 57 minutes ago Up 57 minutes 80/tcp objective\_hamilton

ceb335fd9657 registry "/entrypoint.sh /etc…" 13 hours ago Up 13 hours 0.0.0.0:5000->5000/tcp, :::5000->5000/tcp localregistry

2bf24f2faaf5 27941809078c "/bin/bash" 21 hours ago Up 21 hours 0.0.0.0:80->80/tcp, :::80->80/tcp apache1

root@mani-VirtualBox:~/data# docker exec -it 1dd999b86a3f /bin/bash

bind marks: moving data across host and also containers.

root@mani-VirtualBox:~/data# docker run -it -d -v /data:/tmp ubuntu /bin/bash

1dd999b86a3f61d0ca66cac168c07707e5fce4cb332e3cff24c3848d174e9084

Above command is used to store the data permanently to host and also to containers.

/data/:/tmp🡪 /data is the path created on the hostmechine and /tmp is the path created on the container this data path will be moved to /tmp which is in host machine to temporary machine.

root@mani-VirtualBox:~/data# docker ps

CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES

1dd999b86a3f ubuntu "/bin/bash" 2 minutes ago Up 2 minutes eager\_jackson

7f7c1cae59df jenkins:2.60.3 "/bin/tini -- /usr/l…" 26 minutes ago Up 26 minutes 8080/tcp, 50000/tcp vigilant\_khayyam

a2323b6d215f testapache "/bin/sh -c 'apachec…" 47 minutes ago Up 47 minutes 0.0.0.0:8083->80/tcp, :::8083->80/tcp happy\_wing

3a54f07dcc32 191dbe55f70c "/bin/bash" 52 minutes ago Up 52 minutes 0.0.0.0:8082->80/tcp, :::8082->80/tcp hardcore\_poitras

96b99ed2870d 191dbe55f70c "/bin/sh -c 'apachec…" 55 minutes ago Up 55 minutes 0.0.0.0:8081->80/tcp, :::8081->80/tcp objective\_gauss

378525ed4d6a 191dbe55f70c "/bin/sh -c 'apachec…" 57 minutes ago Up 57 minutes 80/tcp objective\_hamilton

ceb335fd9657 registry "/entrypoint.sh /etc…" 13 hours ago Up 13 hours 0.0.0.0:5000->5000/tcp, :::5000->5000/tcp localregistry

2bf24f2faaf5 27941809078c "/bin/bash" 21 hours ago Up 21 hours 0.0.0.0:80->80/tcp, :::80->80/tcp apache1

root@mani-VirtualBox:~/data# docker exec -it 1dd999b86a3f /bin/bash

root@mani-VirtualBox:/data# touch 1 2 3 4 5

root@mani-VirtualBox:/data# docker exec -it 1dd999b86a3f /bin/bash

root@1dd999b86a3f:/# cd /tmp

root@1dd999b86a3f:/tmp# ls

1. 2 3 4 5

root@1dd999b86a3f:/tmp# touch 6 7 8 9

root@1dd999b86a3f:/tmp# exit

exit

root@mani-VirtualBox:/data# ls

1. 2 3 4 5 6 7 8 9

Wise versa we can move data too and pro.in forward and backward direction.

root@mani-VirtualBox:/data# docker stop 1dd999b86a3f

1dd999b86a3f

root@mani-VirtualBox:/data#

root@mani-VirtualBox:/data# docker rm 1dd999b86a3f

1dd999b86a3f

root@mani-VirtualBox:/data# ls

1 2 3 4 5 6 7 8 9

root@mani-VirtualBox:/data#

Even after stopping and deleting this container we can still see the data exists in this /data path.

root@mani-VirtualBox:~# cat Dockerfile

FROM ubuntu:16.04

RUN apt-get update && apt-get install apache2 –y--------🡪 we are running this in a single command.

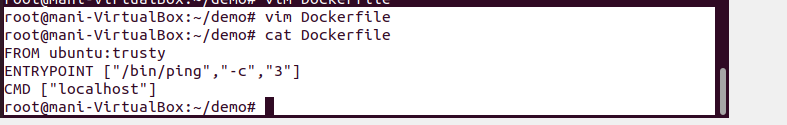
ADD index.html /var/www/html

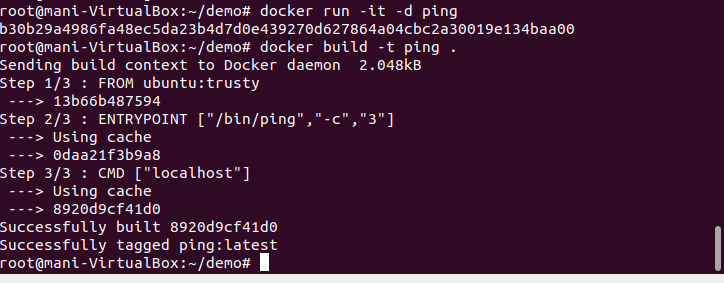
EXPOSE 80

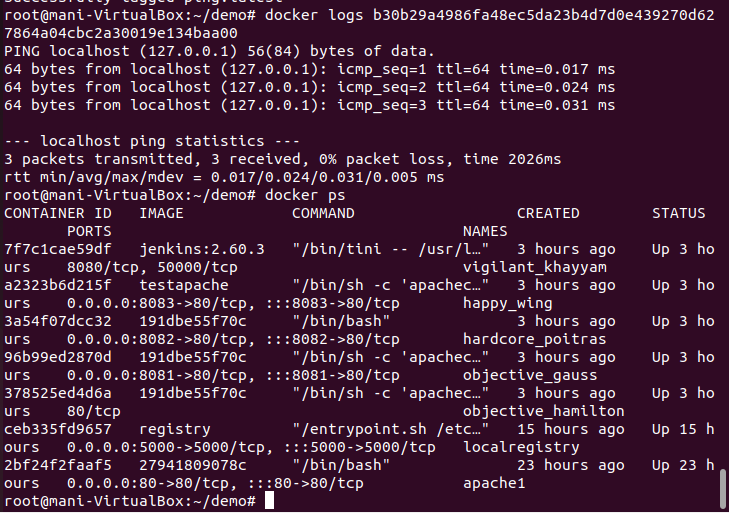
ENV Name Devops

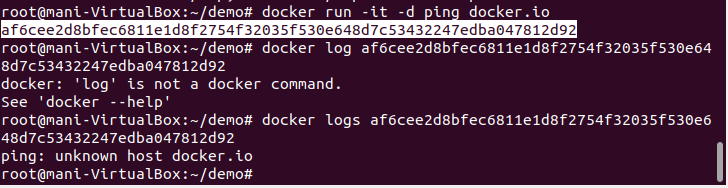
ENTRYPOINT apachectl -D FOREGROUND

root@mani-VirtualBox:~# docker build -t singlerun .









Enter into the container and type docker exec –it number /bin/bash

Cat /etc/hosts--🡪 for checking the ip address of the container.