

Lab Guide 2

Apache server & expose the container

Q.1 In your own base machine configure apache server and content should be very funny you need to write and then share me the URL so i can access that

Q.2 Create a container using oraclelinux:8.3 image and configure apache into it and acces by curl command and verify weather it is working or not

Q.3 create a container using oraclelinux:8.3 image and configure apache inside into it and come out from the container and then use curl command to verify whether it is working or not name should be task1

Q.4 create a container using same image as above and expose it on 3333 port no. and configure apache into it so u can verify from ur browser whether it is working or not name should be task2

Q.5 CREATE A CONTAINER using httpd image and expose it on port no. 3334 name should be task3

Q.6 CREATE A CONTAINER using nginx image and expose it on port no. 3335 name should be task4

Q.7 CREATE A CONTAINER using mdhack/myapache image and expose it on port no. 3336 name should be task5

Q.8 CREATE A CONTAINER using mdhack/myserver image and expose it on port no. 3338 name should be task6

Q.9 CREATE A CONTAINER using mdhack/mayanknginximage image and expose it on port no. 3337 name should be task7

Ans.1

Yum install httpd -y

Echo "Content" > /var/www/html/index.html

Systemctl start httpd

Curl <your ip address>

```
[root@trainer ~]# yum install httpd -y
Amazon Linux 2023 repository
Amazon Linux 2023 Kernel Livepatch repository
Package httpd-2.4.56-1.amzn2023.x86_64 is already installed.
Dependencies resolved.
Nothing to do.
Complete!
[root@trainer ~]# echo HI > /var/www/html/index.html
[root@trainer ~]# systemctl start httpd
[root@trainer ~]# curl localhost
```

Ans.2

Docker run -it oraclelinux:8.3

yum install httpd -y ; echo "hi container" > /var/www/html/index.html ; httpd -
DBACKGROUND && curl localhost

```
[root@trainer ~]# docker run -it oraclelinux:8.3
Unable to find image 'oraclelinux:8.3' locally
8.3: Pulling from library/oraclelinux
dd34f38d274c: Pull complete
Digest: sha256:af3182ee6c1e56f18fc1fecaf638da57d7c47233862e5c32f5ad723a6ab4c6db
Status: Downloaded newer image for oraclelinux:8.3
[root@f825d0d9c3c7 /]# yum install httpd -y && echo HIcontainer > /var/www/html/index.html && httpd -DBACKGROUND && curl localhost
Oracle Linux 8 BaseOS Latest (x86_64) 87 MB/s | 55 MB 00:00
```

Ans.3

Docker run -it oraclelinux:8.3

yum install httpd -y ; echo "hi container" > /var/www/html/index.html ; httpd -
DBACKGROUND && curl localhost

come out from container by pressing ctrl p q

curl <container ip address>

```
[root@trainer ~]# docker run -it oraclelinux:8.3
Unable to find image 'oraclelinux:8.3' locally
8.3: Pulling from library/oraclelinux
dd34f38d274c: Pull complete
Digest: sha256:af3182ee6c1e56f18fc1fecaf638da57d7c47233862e5c32f5ad723a6ab4c6db
Status: Downloaded newer image for oraclelinux:8.3
[root@f825d0d9c3c7 /]# yum install httpd -y && echo HIcontainer > /var/www/html/index.html && httpd -DBACKGROUND && curl localhost
Oracle Linux 8 BaseOS Latest (x86_64) 87 MB/s | 55 MB 00:00
```

```
Verifying : httpd-tools-2.4.37-51.0.1.module+el8.7.0+20923+af3b70dd.1.x86_64
Verifying : mod_http2-1.15.7-5.module+el8.6.0+20548+01710940.x86_64

Installed:
apr-1.6.3-12.el8.x86_64
apr-util-1.6.1-6.el8.x86_64
apr-util-bdb-1.6.1-6.el8.x86_64
apr-util-openssl-1.6.1-6.el8.x86_64
httpd-2.4.37-51.0.1.module+el8.7.0+20923+af3b70dd.1.x86_64
httpd-filesystem-2.4.37-51.0.1.module+el8.7.0+20923+af3b70dd.1.x86_64
httpd-tools-2.4.37-51.0.1.module+el8.7.0+20923+af3b70dd.1.x86_64
mailcap-2.1.48-3.el8.noarch
mod_http2-1.15.7-5.module+el8.6.0+20548+01710940.x86_64
oracle-logos-httpd-84.5-1.0.1.el8.noarch

Complete!
H00558: httpd: Could not reliably determine the server's fully qualified domain name, using 172.17.0.4 as fallback
Name' directive globally to suppress this message
HIcontainer
[root@f825d0d9c3c7 /]# [root@trainer ~]# curl 172.17.0.4
HIcontainer
```

Ans. 4

Docker run -it -p 3333:80 oraclelinux:8.3

yum install httpd -y ; echo "hi container" > /var/www/html/index.html ; httpd -DBACKGROUND &&
curl localhost

ctrl p q

goto browser and take your public ip and port

http://publicip:3333

```
[root@trainer ~]# docker run -it -p 3333:80 oraclelinux:8.3
[root@825bdc49fb3e /]#

[root@trainer ~]# docker run -it oraclelinux:8.3
Unable to find image 'oraclelinux:8.3' locally
8.3: Pulling from library/oraclelinux
dd34f38d274c: Pull complete
Digest: sha256:af3182ee6c1e56f18fc1fecaf638da57d7c47233862e5c32f5ad723a6ab4c6db
Status: Downloaded newer image for oraclelinux:8.3
[root@f825d0d9c3c7 /]# yum install httpd -y && echo HIcontainer > /var/www/html/index.html && httpd -DBACKGROUND && curl localhost
Oracle Linux 8 BaseOS Latest (x86_64) 87 MB/s | 55 MB 00:00

Verifying : httpd-tools-2.4.37-51.0.1.module+el8.7.0+20923+af3b70dd.1.x86_64
Verifying : mod_http2-1.15.7-5.module+el8.6.0+20548+01710940.x86_64

Installed:
apr-1.6.3-12.el8.x86_64
apr-util-1.6.1-6.el8.x86_64
apr-util-bdb-1.6.1-6.el8.x86_64
apr-util-openssl-1.6.1-6.el8.x86_64
httpd-2.4.37-51.0.1.module+el8.7.0+20923+af3b70dd.1.x86_64
httpd-filesystem-2.4.37-51.0.1.module+el8.7.0+20923+af3b70dd.1.x86_64
httpd-tools-2.4.37-51.0.1.module+el8.7.0+20923+af3b70dd.1.x86_64
mailcap-2.1.48-3.el8.noarch
mod_http2-1.15.7-5.module+el8.6.0+20548+01710940.x86_64
oracle-logos-httpd-84.5-1.0.1.el8.noarch

complete!
H00558: httpd: Could not reliably determine the server's fully qualified domain name, please add 'ServerName' directive globally to suppress this message
HIcontainer
[root@f825d0d9c3c7 /]# [root@trainer ~]# curl 172.17.0.4
HIcontainer
```

Ans. 5 , 6 , 7 , 8

Docker run -itd -p 3334:80 httpd

Docker run -itd -p 3335:80 nginx

Docker run -itd -p 3336:80 mdhack/myapache

Docker run -itd -p 3338:80 mdhack/myserver

```
[root@trainer ~]# docker run -itd -p 3334:80 httpd
fd42fab8a46e2b67e4778f21b6182585acfd4ef2f04820d4b85ccdaa480d8c8a
[root@trainer ~]# docker run -itd -p 3335:80 nginx
008052b432c6462b4828371052387a4b799f34efac543f7b1d9d4b4bd49e7506
[root@trainer ~]# docker run -itd -p 3336:80 mdhack/myapache
Unable to find image 'mdhack/myapache:latest' locally
latest: Pulling from mdhack/myapache
bf5952930446: Pull complete
3d3fecf6569b: Pull complete
b5fc3125d912: Pull complete
679d69c01e90: Pull complete
76291586768e: Pull complete
8fb864d2a9c7: Pull complete
Digest: sha256:1c90388d0472b6774770c06489be3f74f8d38221a42f024f03c3caec34b87714
Status: Downloaded newer image for mdhack/myapache:latest
cad5e187e03635c3d20bdf4c646eee44e322d8fde5805064758ee894fab7cb48
[root@trainer ~]# docker run -itd -p 3338:80 mdhack/myserver
Unable to find image 'mdhack/myserver:latest' locally
latest: Pulling from mdhack/myserver
74f0853ba93b: Pull complete
7aa70b934c32: Pull complete
2d68deff9aaf: Pull complete
31ea4127808d: Pull complete
Digest: sha256:70adde817b3b8c8029ed3eb6d8542ccea47a90087517ec05813149f0c7a292d1
Status: Downloaded newer image for mdhack/myserver:latest
82cf882c8d448907c01ab5cb7273898fa7fe36097d9a232907d821e27a11071b
[root@trainer ~]#
```

Ans.9

Docker run -itd -p 3337:80 --name task7 mdhack/mayanknginximage

```
3. 13.232.216.161 (ubuntu) x 4. 13.200.5.201 (ubuntu) x 5. 54.215.130.55 (root) x +
[root@trainer ~]# docker run -itd -p 3338:80 mdhack/mayanknginximage
```