**DOCKER Hands on Lab 02.**

**Deadline: - 10 Jan 2024 till 3:00 PM**

8. Clone the lancachenet/ubuntu-nginx Git repository locally and build a Docker image from the provided Dockerfile. Be sure to add relevant tags when building the image.

Sol:-

root@DESKTOP-SQGRBLG:/mnt/e/Git# git init ubuntu-nginx

Initialized empty Git repository in /mnt/e/Git/ubuntu-nginx/.git/

root@DESKTOP-SQGRBLG:/mnt/e/Git# cd ubuntu-nginx

root@DESKTOP-SQGRBLG:/mnt/e/Git/ubuntu-nginx# echo "# Ubuntu-Nginx Project" >> README.md

root@DESKTOP-SQGRBLG:/mnt/e/Git/ubuntu-nginx# git add README.md

root@DESKTOP-SQGRBLG:/mnt/e/Git/ubuntu-nginx# git commit -m "Adding first commit""

> ^C

root@DESKTOP-SQGRBLG:/mnt/e/Git/ubuntu-nginx# git log

fatal: your current branch 'master' does not have any commits yet

root@DESKTOP-SQGRBLG:/mnt/e/Git/ubuntu-nginx# git status

On branch master

No commits yet

Changes to be committed:

(use "git rm --cached <file>..." to unstage)

new file: README.md

root@DESKTOP-SQGRBLG:/mnt/e/Git/ubuntu-nginx#

root@DESKTOP-SQGRBLG:/mnt/e/Git/ubuntu-nginx#

root@DESKTOP-SQGRBLG:/mnt/e/Git/ubuntu-nginx# cd ubuntu-nginx/

fatal: repository 'https://github.com/lancachenet/ubuntu-nginx/tree/master/' not found

root@DESKTOP-SQGRBLG:/mnt/e/Git/ubuntu-nginx# git clone https://github.com/lancachenet/ubuntu-nginx

Cloning into 'ubuntu-nginx'...

remote: Enumerating objects: 101, done.

remote: Counting objects: 100% (28/28), done.

remote: Compressing objects: 100% (21/21), done.

remote: Total 101 (delta 3), reused 18 (delta 0), pack-reused 73

Receiving objects: 100% (101/101), 19.15 KiB | 233.00 KiB/s, done.

Resolving deltas: 100% (20/20), done.

root@DESKTOP-SQGRBLG:/mnt/e/Git/ubuntu-nginx/ubuntu-nginx# docker image build -t ubuntu-nginx .

[+] Building 132.6s (9/9) FINISHED docker:default

=> [internal] load build definition from Dockerfile 0.1s

=> => transferring dockerfile: 1.02kB 0.0s

=> [internal] load .dockerignore 0.0s

=> => transferring context: 2B 0.0s

=> [internal] load metadata for docker.io/lancachenet/ubuntu:latest 14.2s

=> [internal] load build context 0.4s

=> => transferring context: 7.51kB 0.3s

=> [1/4] FROM docker.io/lancachenet/ubuntu:latest@sha256:7ece2e2aefb4cc13b895823fa7c1ee43763a1b15b84659dcb4daae726f 52.9s

=> => resolve docker.io/lancachenet/ubuntu:latest@sha256:7ece2e2aefb4cc13b895823fa7c1ee43763a1b15b84659dcb4daae726f7 0.1s

=> => sha256:7ece2e2aefb4cc13b895823fa7c1ee43763a1b15b84659dcb4daae726f757765 1.57kB / 1.57kB 0.0s

root@DESKTOP-SQGRBLG:/mnt/e/Git/ubuntu-nginx/ubuntu-nginx# **docker images**

REPOSITORY TAG IMAGE ID CREATED SIZE

**ubuntu-nginx latest ed8b614adbb6 2 minutes ago 584MB**

ubuntu 20.04 f78909c2b360 3 weeks ago 72.8MB

ubuntu latest 174c8c134b2a 4 weeks ago 77.9MB

httpd latest 6fd77d7e5eb7 2 months ago 167MB

root@DESKTOP-SQGRBLG:/mnt/e/Git/ubuntu-nginx/ubuntu-nginx# ^C

root@DESKTOP-SQGRBLG:/mnt/e/Git/ubuntu-nginx/ubuntu-nginx# **docker image build -t latest/ubuntu-nginx .**

[+] Building 13.9s (9/9) FINISHED docker:default

=> [internal] load .dockerignore 0.1s

=> => transferring context: 2B 0.0s

=> [internal] load build definition from Dockerfile 0.1s

=> => transferring dockerfile: 1.02kB 0.0s

=> [internal] load metadata for docker.io/lancachenet/ubuntu:latest 12.9s

=> [internal] load build context 0.2s

=> => transferring context: 1.36kB 0.2s

=> [1/4] FROM docker.io/lancachenet/ubuntu:latest@sha256:7ece2e2aefb4cc13b895823fa7c1ee43763a1b15b84659dcb4daae726f7 0.0s

=> CACHED [2/4] COPY overlay/ / 0.0s

=> CACHED [3/4] RUN apt-get update && apt-get install -y nginx-full inotify-tools 0.0s

=> CACHED [4/4] RUN chmod 777 /opt/nginx/startnginx.sh && rm /etc/nginx/sites-available/default /etc/nginx/s 0.0s

=> exporting to image 0.1s

=> => exporting layers 0.0s

=> => writing image sha256:ed8b614adbb61d4cd62bccfcea8a5b374e3a7e01a7564da749dbf165ef542337 0.0s

=> => naming to docker.io/latest/ubuntu-nginx 0.1s

root@DESKTOP-SQGRBLG:/mnt/e/Git/ubuntu-nginx/ubuntu-nginx#

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

9. After building the image, run a Docker container using the image and check the webpage using the curl command to ensure it's accessible.

**docker container run -it ubuntu-nginx**

Executing hook /hooks/entrypoint-pre.d/00\_asciilogo.sh

\_ \_\_\_\_\_ \_ \_

| | / \_\_\_\_| | | | |

| | \_\_ \_ \_ \_\_ | | \_\_ \_ \_\_\_| |\_\_ \_\_\_ \_ \_\_ \_\_\_| |\_

| | / \_` | '\_ \| | / \_` |/ \_\_| '\_ \ / \_ \ | '\_ \ / \_ \ \_\_|

| |\_\_\_| (\_| | | | | |\_\_\_| (\_| | (\_\_| | | | \_\_/\_| | | | \_\_/ |\_

|\_\_\_\_\_\_\\_\_,\_|\_| |\_|\\_\_\_\_\_\\_\_,\_|\\_\_\_|\_| |\_|\\_\_\_(\_)\_| |\_|\\_\_\_|\\_\_|

Executing hook /hooks/supervisord-pre.d/20\_test\_files\_setup

Checking if /var/www/ is empty - Directory not empty.. don't touch content

Executing hook /hooks/supervisord-pre.d/21\_cleanup\_log\_files

Cleaning up log files older than 7 days

Starting Supervisord

^C2024-01-10 09:02:51,056 WARN received SIGINT indicating exit request

2024-01-10 09:02:51,059 WARN stopped: nginx (terminated by SIGTERM)

root@DESKTOP-SQGRBLG:/mnt/e/Git/ubuntu-nginx/ubuntu-nginx# **docker container run -it --rm -d -p 8080:80 ubuntu-nginx:latest**

**d233cb06d03f16eb71a2c8384d561e92ce0549775a874739d44e153f68816a40**

root@DESKTOP-SQGRBLG:/mnt/e/Git/ubuntu-nginx/ubuntu-nginx#

root@DESKTOP-SQGRBLG:/mnt/e/Git/ubuntu-nginx/ubuntu-nginx# docker container run -it --rm -d -p 8080:80 ubuntu-nginx:latest

d233cb06d03f16eb71a2c8384d561e92ce0549775a874739d44e153f68816a40

root@DESKTOP-SQGRBLG:/mnt/e/Git/ubuntu-nginx/ubuntu-nginx# service apache2 start

\* Starting Apache httpd web server apache2 \*

root@DESKTOP-SQGRBLG:/mnt/e/Git/ubuntu-nginx/ubuntu-nginx# netstat -tunlp

Active Internet connections (only servers)

Proto Recv-Q Send-Q Local Address Foreign Address State PID/Program name

tcp 0 0 0.0.0.0:8080 0.0.0.0:\* LISTEN 2557/docker-proxy

tcp6 0 0 :::80 :::\* LISTEN 2763/apache2

tcp6 0 0 :::8080 :::\* LISTEN 2565/docker-proxy

root@DESKTOP-SQGRBLG:/mnt/e/Git/ubuntu-nginx/ubuntu-nginx#

root@DESKTOP-SQGRBLG:/mnt/e/Git/ubuntu-nginx/ubuntu-nginx# docker container ls

CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS

NAMES

d233cb06d03f ubuntu-nginx:latest "/bin/bash -e /init/…" 2 hours ago Up 2 hours 0.0.0.0:8080->80/tcp, :::8080->80/tcp pedantic\_kalam

root@DESKTOP-SQGRBLG:/mnt/e/Git/ubuntu-nginx/ubuntu-nginx# docker inspect pedantic\_kalam

[

{

"Id": "d233cb06d03f16eb71a2c8384d561e92ce0549775a874739d44e153f68816a40",

"Created": "2024-01-10T09:10:27.3077096Z",

"Path": "/bin/bash",

"Args": [

"-e",

"/init/entrypoint",

"/init/supervisord"

],

"State": {

"Status": "running",

"Running": true,

"Paused": false,

"Restarting": false,

"OOMKilled": false,

"EndpointID": "f240bb55f86741cfe731e93fa663342b0c6cbe73eb78f3b6f2d85cbf2ee18ab3",

"Gateway": "172.17.0.1",

**"IPAddress": "172.17.0.2",**

"IPPrefixLen": 16,

"IPv6Gateway": "",

"GlobalIPv6Address": "",

"GlobalIPv6PrefixLen": 0,

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

"DriverOpts": null

}

}

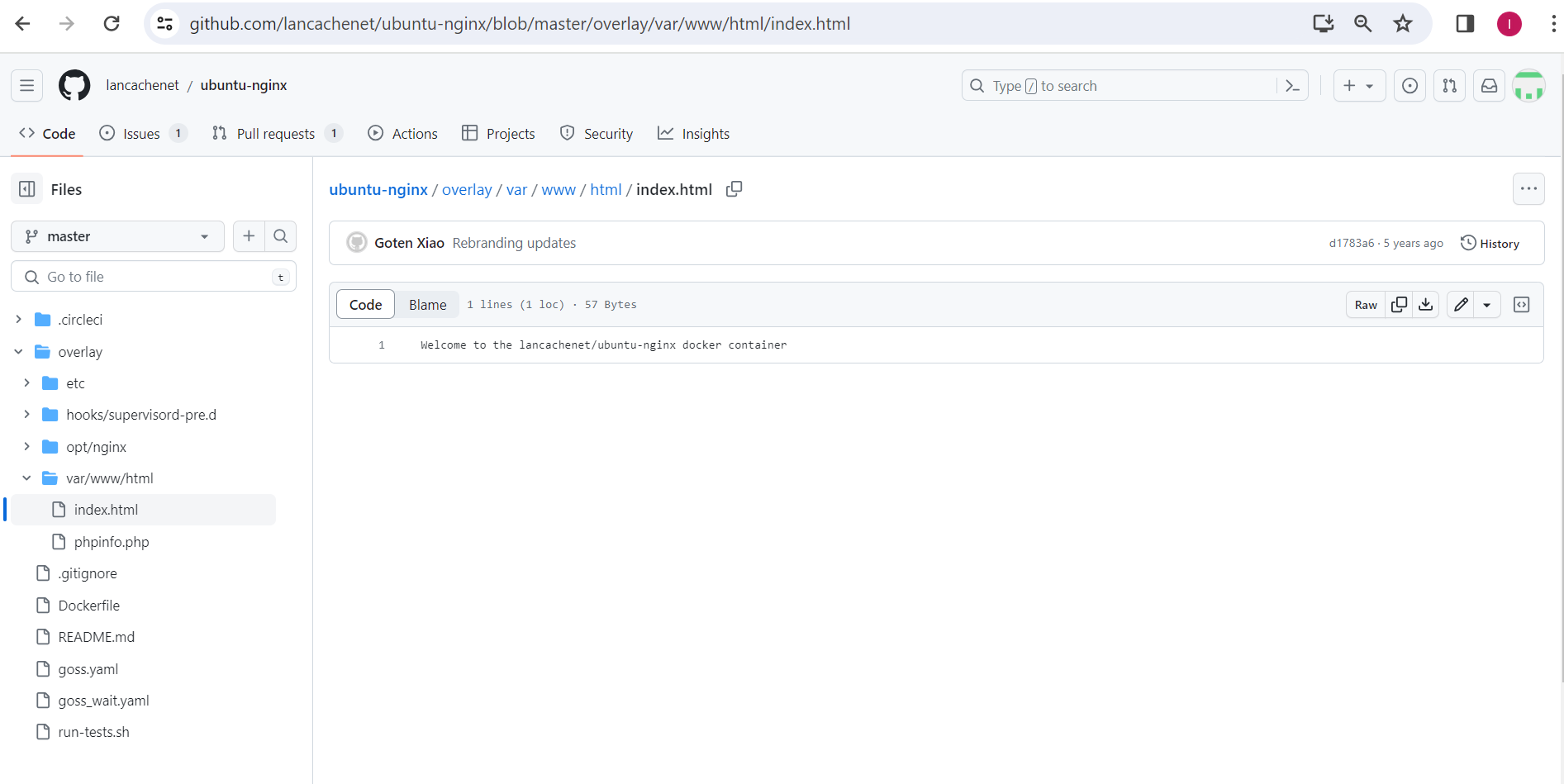
}

}

]

root@DESKTOP-SQGRBLG:/mnt/e/Git/ubuntu-nginx/ubuntu-nginx# **curl 172.17.0.2**

Welcome to the lancachenet/ubuntu-nginx docker container



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

11. Launch an Ubuntu container, demonstrate that the escape sequence is functional, and reattach the container after detaching it with the escape sequence. Then, check the container's IP address.

root@DESKTOP-SQGRBLG:/mnt/e/Git/ubuntu-nginx/ubuntu-nginx# docker image ls -a

REPOSITORY TAG IMAGE ID CREATED SIZE

latest/ubuntu-nginx latest ed8b614adbb6 3 hours ago 584MB

ubuntu-nginx latest ed8b614adbb6 3 hours ago 584MB

ubuntu 20.04 f78909c2b360 4 weeks ago 72.8MB

ubuntu latest 174c8c134b2a 4 weeks ago 77.9MB

httpd latest 6fd77d7e5eb7 2 months ago 167MB

root@DESKTOP-SQGRBLG:/mnt/e/Git/ubuntu-nginx/ubuntu-nginx# docker container run -itd --name Ubcontainer latest/ubuntu-nginx

cbcba3abc413e1a7a5f58199a5c34cb6cd1c947497f0af29c262d9457467302c

root@DESKTOP-SQGRBLG:/mnt/e/Git/ubuntu-nginx/ubuntu-nginx#

root@DESKTOP-SQGRBLG:/mnt/e/Git/ubuntu-nginx/ubuntu-nginx# docker container start Ubcontainer

Ubcontainer

root@DESKTOP-SQGRBLG:/mnt/e/Git/ubuntu-nginx/ubuntu-nginx# exit

exit

root@DESKTOP-SQGRBLG:/mnt/e/ubuntu-nginx# docker container run -it ubuntu

root@171524831c19:/# **exit**

**exit**

root@DESKTOP-SQGRBLG:/mnt/e/ubuntu-nginx# docker container ls -a

CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES

**171524831c19 ubuntu "/bin/bash" 30 seconds ago Exited (0) 11 seconds ago brave\_driscoll**

**cbcba3abc413 latest/ubuntu-nginx "/bin/bash -e /init/…" 22 minutes ago Exited (0) 4 minutes** ago Ubcontainer

d233cb06d03f ubuntu-nginx:latest "/bin/bash -e /init/…" 3 hours ago Up 3 hours 0.0.0.0:8080->80/tcp, :::8080->80/tcp pedantic\_kalam

root@DESKTOP-SQGRBLG:/mnt/e/ubuntu-nginx# docker container run -it ubuntu

root@3ae57f6a5990:/# root@DESKTOP-SQGRBLG:/mnt/e/ubuntu-nginx# docker container ls -a

CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES

**3ae57f6a5990 ubuntu "/bin/bash" 12 seconds ago Up 11 seconds** eloquent\_zhukovsky

171524831c19 ubuntu "/bin/bash" About a minute ago Exited (0) 46 seconds ago brave\_driscoll

cbcba3abc413 latest/ubuntu-nginx "/bin/bash -e /init/…" 22 minutes ago Exited (0) 4 minutes ago Ubcontainer

d233cb06d03f ubuntu-nginx:latest "/bin/bash -e /init/…" 3 hours ago Up 3 hours 0.0.0.0:8080->80/tcp, :::8080->80/tcp pedantic\_kalam

root@DESKTOP-SQGRBLG:/mnt/e/ubuntu-nginx#

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

12. Use a Docker command to inspect the hostname and /etc/hosts file of the httpd container.

root@DESKTOP-SQGRBLG:/mnt/e/ubuntu-nginx# docker container exec 3ae57f6a5990 hostname

3ae57f6a5990

root@DESKTOP-SQGRBLG:/mnt/e/ubuntu-nginx#

root@DESKTOP-SQGRBLG:/mnt/e/ubuntu-nginx# docker container exec 3ae57f6a5990 cat /etc/hosts

127.0.0.1 localhost

::1 localhost ip6-localhost ip6-loopback

fe00::0 ip6-localnet

ff00::0 ip6-mcastprefix

ff02::1 ip6-allnodes

ff02::2 ip6-allrouters

172.17.0.3 3ae57f6a5990

root@DESKTOP-SQGRBLG:/mnt/e/ubuntu-nginx#

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

13. Run a Docker command to inspect a container created with the lancachenet/ubuntu-nginx repository, and monitor the container's resource usage and stats with the TOP command.

root@DESKTOP-SQGRBLG:/mnt/e/ubuntu-nginx# docker container stats

CONTAINER ID NAME CPU % MEM USAGE / LIMIT MEM % NET I/O BLOCK I/O PIDS

3ae57f6a5990 eloquent\_zhukovsky 0.00% 1.449MiB / 9.237GiB 0.02% 1.22kB / 0B 0B / 0B 1

d233cb06d03f pedantic\_kalam 0.04% 24.42MiB / 9.237GiB 0.26% 2.06kB / 623B 0B / 0B 11

root@DESKTOP-SQGRBLG:/mnt/e/ubuntu-nginx# docker container top d233cb06d03f

UID PID PPID C STIME TTY TIME CMD

root 2601 2580 0 14:51 pts/0 00:00:05 /usr/bin/python3 /usr/local/bin/supervisord -n -c /etc/supervisor/supervisord.conf -e WARN

root 2636 2601 0 14:51 pts/0 00:00:00 /bin/bash /opt/nginx/startnginx.sh

root 2637 2636 0 14:51 pts/0 00:00:00 nginx: master process /usr/sbin/nginx -g daemon off;

www-data 2638 2637 0 14:51 pts/0 00:00:00 nginx: worker process

www-data 2639 2637 0 14:51 pts/0 00:00:00 nginx: worker process

www-data 2640 2637 0 14:51 pts/0 00:00:00 nginx: worker process

www-data 2641 2637 0 14:51 pts/0 00:00:00 nginx: worker process

www-data 2642 2637 0 14:51 pts/0 00:00:00 nginx: worker process

www-data 2643 2637 0 14:51 pts/0 00:00:00 nginx: worker process

www-data 2644 2637 0 14:51 pts/0 00:00:00 nginx: worker process

www-data 2645 2637 0 14:51 pts/0 00:00:00 nginx: worker process

root@DESKTOP-SQGRBLG:/mnt/e/ubuntu-nginx#

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

14. Start a new Nginx container and review the logs for both Nginx containers.

root@DESKTOP-SQGRBLG:/mnt/e/ubuntu-nginx# docker container run -itd --name my\_ngnix\_container nginx

5419862f54e4d6da1ffba1d88469313e2b5d9008cb3bfc753a8624e569ff445a

root@DESKTOP-SQGRBLG:/mnt/e/ubuntu-nginx# docker container ls

CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS

NAMES

5419862f54e4 nginx "/docker-entrypoint.…" 23 seconds ago Up 21 seconds 80/tcp

my\_ngnix\_container

3ae57f6a5990 ubuntu "/bin/bash" 3 hours ago Up 3 hours

eloquent\_zhukovsky

d233cb06d03f ubuntu-nginx:latest "/bin/bash -e /init/…" 5 hours ago Up 5 hours 0.0.0.0:8080->80/tcp, :::8080->80/tcp pedantic\_kalam

root@DESKTOP-SQGRBLG:/mnt/e/ubuntu-nginx# docker container logs my\_ngnix\_container

/docker-entrypoint.sh: /docker-entrypoint.d/ is not empty, will attempt to perform configuration

/docker-entrypoint.sh: Looking for shell scripts in /docker-entrypoint.d/

/docker-entrypoint.sh: Launching /docker-entrypoint.d/10-listen-on-ipv6-by-default.sh

10-listen-on-ipv6-by-default.sh: info: Getting the checksum of /etc/nginx/conf.d/default.conf

10-listen-on-ipv6-by-default.sh: info: Enabled listen on IPv6 in /etc/nginx/conf.d/default.conf

/docker-entrypoint.sh: Sourcing /docker-entrypoint.d/15-local-resolvers.envsh

/docker-entrypoint.sh: Launching /docker-entrypoint.d/20-envsubst-on-templates.sh

/docker-entrypoint.sh: Launching /docker-entrypoint.d/30-tune-worker-processes.sh

/docker-entrypoint.sh: Configuration complete; ready for start up

2024/01/10 14:37:05 [notice] 1#1: using the "epoll" event method

2024/01/10 14:37:05 [notice] 1#1: nginx/1.25.3

2024/01/10 14:37:05 [notice] 1#1: built by gcc 12.2.0 (Debian 12.2.0-14)

2024/01/10 14:37:05 [notice] 1#1: OS: Linux 5.10.16.3-microsoft-standard-WSL2

2024/01/10 14:37:05 [notice] 1#1: getrlimit(RLIMIT\_NOFILE): 1048576:1048576

2024/01/10 14:37:05 [notice] 1#1: start worker processes

2024/01/10 14:37:05 [notice] 1#1: start worker process 29

2024/01/10 14:37:05 [notice] 1#1: start worker process 30

2024/01/10 14:37:05 [notice] 1#1: start worker process 31

2024/01/10 14:37:05 [notice] 1#1: start worker process 32

2024/01/10 14:37:05 [notice] 1#1: start worker process 33

2024/01/10 14:37:05 [notice] 1#1: start worker process 34

2024/01/10 14:37:05 [notice] 1#1: start worker process 35

2024/01/10 14:37:05 [notice] 1#1: start worker process 36

root@DESKTOP-SQGRBLG:/mnt/e/ubuntu-nginx#

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

15. Examine system events, filtering them by date and the last 30 minutes. Additionally, apply two filters simultaneously using name and event.

root@DESKTOP-SQGRBLG:/mnt/e/ubuntu-nginx# docker system events --since '2022-01-05'

2024-01-10T13:33:22.051463600+05:30 image tag sha256:ed8b614adbb61d4cd62bccfcea8a5b374e3a7e01a7564da749dbf165ef542337 (name=ubuntu-nginx, org.opencontainers.image.ref.name=ubuntu, org.opencontainers.image.version=18.04)

2024-01-10T14:23:01.381653400+05:30 image tag sha256:ed8b614adbb61d4cd62bccfcea8a5b374e3a7e01a7564da749dbf165ef542337 (name=latest/ubuntu-nginx, org.opencontainers.image.ref.name=ubuntu, org.opencontainers.image.version=18.04)

root@DESKTOP-SQGRBLG:/mnt/e/ubuntu-nginx# docker system events --since 30m

2024-01-10T20:04:58.230085800+05:30 image pull nginx:latest (maintainer=NGINX Docker Maintainers <docker-maint@nginx.com>, name=nginx)

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

**16. Create a Docker container using the Ubuntu image, assign it a meaningful name, and set the hostname to "cloudethix.com." Stop or kill the container, check its exit code, and examine the container's log for more information.**

Sol:-

root@DESKTOP-SQGRBLG:/mnt/e/ubuntu-nginx# docker pull ubuntu

Using default tag: latest

latest: Pulling from library/ubuntu

Digest: sha256:6042500cf4b44023ea1894effe7890666b0c5c7871ed83a97c36c76ae560bb9b

Status: Image is up to date for ubuntu:latest

docker.io/library/ubuntu:latest

root@DESKTOP-SQGRBLG:/mnt/e/ubuntu-nginx# docker run -itd --name lab2\_ubuntu\_container --hostname cloudethix.com ubuntu

fe4dafe8d646a2ad6ab5cc1a1efa9dff0721c6517fb31d0343483fc82e37e995

root@DESKTOP-SQGRBLG:/mnt/e/ubuntu-nginx#

root@DESKTOP-SQGRBLG:/mnt/e/ubuntu-nginx# **docker container stop lab2\_ubuntu\_container**

**lab2\_ubuntu\_container**

root@DESKTOP-SQGRBLG:/mnt/e/ubuntu-nginx# **docker container ls -a**

CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES

fe4dafe8d646 ubuntu "/bin/bash" 3 minutes ago **Exited (137)** 39 seconds ago lab2\_ubuntu\_container

root@DESKTOP-SQGRBLG:/mnt/e/ubuntu-nginx# **docker container kill lab2\_ubuntu\_container**

**lab2\_ubuntu\_container**

root@DESKTOP-SQGRBLG:/mnt/e/ubuntu-nginx# docker container ls -a

CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES

fe4dafe8d646 ubuntu "/bin/bash" 6 minutes ago **Exited (137)** 11 seconds ago lab2\_ubuntu\_container

root@DESKTOP-SQGRBLG:/mnt/e/ubuntu-nginx# docker container logs lab2\_ubuntu\_container

root@cloudethix:/# root@cloudethix:/# root@DESKTOP-SQGRBLG:/mnt/e/ubuntu-nginx#

root@DESKTOP-SQGRBLG:/mnt/e/ubuntu-nginx#

root@DESKTOP-SQGRBLG:/mnt/e/ubuntu-nginx#

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

17. Instantiate and start an Ubuntu container with a random name, then rename it to "Ubuntu01." Launch another container named "Ubuntu02" and check the hostname of both containers. Pause and un-pause the "Ubuntu02" container, and stop, start, and restart the "Ubuntu01" container. Inspect the stats and system events of both containers, then kill and delete them, ensuring that directories created by the containers are removed.

Sol:-

root@DESKTOP-SQGRBLG:/mnt/e/ubuntu-nginx# **docker image ls**

REPOSITORY TAG IMAGE ID CREATED SIZE

ubuntu-nginx latest ed8b614adbb6 24 hours ago 584MB

latest/ubuntu-nginx latest ed8b614adbb6 24 hours ago 584MB

ubuntu 20.04 f78909c2b360 4 weeks ago 72.8MB

ubuntu latest 174c8c134b2a 4 weeks ago 77.9MB

nginx latest d453dd892d93 2 months ago 187MB

httpd latest 6fd77d7e5eb7 2 months ago 167MB

root@DESKTOP-SQGRBLG:/mnt/e/ubuntu-nginx# docker container run -itd ubuntu

9bb27904712e90e860eed1cd26e0a45312130ce142df48ebacc496ca51d792d8

root@DESKTOP-SQGRBLG:/mnt/e/ubuntu-nginx# **docker image ls**

REPOSITORY TAG IMAGE ID CREATED SIZE

latest/ubuntu-nginx latest ed8b614adbb6 24 hours ago 584MB

ubuntu-nginx latest ed8b614adbb6 24 hours ago 584MB

ubuntu 20.04 f78909c2b360 4 weeks ago 72.8MB

ubuntu latest 174c8c134b2a 4 weeks ago 77.9MB

nginx latest d453dd892d93 2 months ago 187MB

httpd latest 6fd77d7e5eb7 2 months ago 167MB

root@DESKTOP-SQGRBLG:/mnt/e/ubuntu-nginx#

root@DESKTOP-SQGRBLG:/mnt/e/ubuntu-nginx# **docker container ls**

CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES

9bb27904712e ubuntu "/bin/bash" 29 minutes ago Up 29 minutes **thirsty\_shirley**

root@DESKTOP-SQGRBLG:/mnt/e/ubuntu-nginx# **docker container rename thirsty\_shirley Ubuntu01**

root@DESKTOP-SQGRBLG:/mnt/e/ubuntu-nginx# **docker container ls**

CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES

9bb27904712e ubuntu "/bin/bash" 33 minutes ago Up 33 minutes **Ubuntu01**

root@DESKTOP-SQGRBLG:/mnt/e/ubuntu-nginx#

root@DESKTOP-SQGRBLG:/mnt/e/ubuntu-nginx# docker container ls -a

CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES

63a60b0d7f99 ubuntu "/bin/bash" 3 minutes ago Exited (0) 3 minutes ago magical\_goodall

4f3937cd434c ubuntu "/bin/bash" 6 minutes ago Exited (127) 3 minutes ago trusting\_hugle

c60302e145b5 ubuntu "/bin/bash" 41 minutes ago Exited (0) 39 minutes ago gifted\_dhawan

9bb27904712e ubuntu "/bin/bash" 51 minutes ago Up 51 minutes Ubuntu01

root@DESKTOP-SQGRBLG:/mnt/e/ubuntu-nginx# **docker container rename eloquent\_zhukovsky root@DESKTOP-SQGRBLG:/mnt/e/ubuntu-nginx# docker container rename magical\_goodall Ubuntu\_02**

root@DESKTOP-SQGRBLG:/mnt/e/ubuntu-nginx# **docker container ls -a**

CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES

63a60b0d7f99 ubuntu "/bin/bash" 6 minutes ago Exited (0) 6 minutes ago Ubuntu\_02

root@DESKTOP-SQGRBLG:/mnt/e/ubuntu-nginx# **docker container stop Ubuntu01**

**Ubuntu01**

root@DESKTOP-SQGRBLG:/mnt/e/ubuntu-nginx# docker container exec **Ubuntu01** hostname

**9bb27904712e**

root@DESKTOP-SQGRBLG:/mnt/e/ubuntu-nginx# docker container start **Ubuntu02**

**Ubuntu02**

root@DESKTOP-SQGRBLG:/mnt/e/ubuntu-nginx# docker container exec **Ubuntu02** hostname

**3ae57f6a5990**

root@DESKTOP-SQGRBLG:/mnt/e/ubuntu-nginx#

root@DESKTOP-SQGRBLG:/mnt/e/ubuntu-nginx# **docker container pause Ubuntu01**

**Ubuntu01**

root@DESKTOP-SQGRBLG:/mnt/e/ubuntu-nginx# **docker container pause Ubuntu02**

**Ubuntu02**

root@DESKTOP-SQGRBLG:/mnt/e/ubuntu-nginx# **docker container unpause Ubuntu01**

**Ubuntu01**

root@DESKTOP-SQGRBLG:/mnt/e/ubuntu-nginx# **docker container unpause Ubuntu02**

**Ubuntu02**

root@DESKTOP-SQGRBLG:/mnt/e/ubuntu-nginx#

root@DESKTOP-SQGRBLG:/mnt/e/ubuntu-nginx# docker container **inspect Ubuntu01**

[

{

"Id": "9bb27904712e90e860eed1cd26e0a45312130ce142df48ebacc496ca51d792d8",

"Created": "2024-01-11T07:49:40.7570989Z",

"Path": "/bin/bash",

"Args": [],

"State": {

"Status": "running",

"Running": true,

"Paused": false,

"Restarting": false,

"OOMKilled": false,

"Dead": false,

"Pid": 1969,

"ExitCode": 0,

"Error": "",

"StartedAt": "2024-01-11T08:47:12.1873325Z",

"FinishedAt": "2024-01-11T08:46:41.5956304Z"

},

"Image": "sha256:174c8c134b2a94b5bb0b37d9a2b6ba0663d82d23ebf62bd51f74a2fd457333da",

"ResolvConfPath": "/var/lib/docker/containers/9bb27904712e90e860eed1cd26e0a45312130ce142df48ebacc496ca51d792d8/resolv.conf",

"Name": "**/Ubuntu01",**

],

"Image": "ubuntu",

"Volumes": null,

"WorkingDir": "",

"Entrypoint": null,

"OnBuild": null,

"Labels": {

"org.opencontainers.image.ref.name": "ubuntu",

"org.opencontainers.image.version": "22.04"

}

root@DESKTOP-SQGRBLG:/mnt/e/ubuntu-nginx# **docker container stats Ubuntu01**

CONTAINER ID NAME CPU % MEM USAGE / LIMIT MEM % NET I/O BLOCK I/O PIDS

9bb27904712e Ubuntu01 0.00% 872KiB / 9.237GiB 0.01% 1.19kB / 0B 0B / 0B 1

CONTAINER ID NAME CPU % MEM USAGE / LIMIT MEM % NET I/O BLOCK I/O PIDS

9bb27904712e Ubuntu01 0.00% 872KiB / 9.237GiB 0.01% 1.19kB / 0B 0B / 0B 1

^C

root@DESKTOP-SQGRBLG:/mnt/e/ubuntu-nginx# docker container **inspect Ubuntu02**

[

{

"Id": "3ae57f6a5990974c5529b31ec8d7634267d1c519073e1c8509b8c727a2c98191",

"Created": "2024-01-10T11:48:55.9392813Z",

"Path": "/bin/bash",

"Args": [],

"State": {

"Status": "running",

"Running": true,

"Paused": false,

"Restarting": false,

"OOMKilled": false,

"Dead": false,

**"Name": "/Ubuntu02",**

],

"Image": "ubuntu",

"Volumes": null,

"WorkingDir": "",

"Entrypoint": null,

"OnBuild": null,

"Labels": {

"org.opencontainers.image.ref.name": "ubuntu",

"org.opencontainers.image.version": "22.04"

root@DESKTOP-SQGRBLG:/mnt/e/ubuntu-nginx# docker container stats Ubuntu02

CONTAINER ID NAME CPU % MEM USAGE / LIMIT MEM % NET I/O BLOCK I/O PIDS

3ae57f6a5990 Ubuntu02 0.00% 1.398MiB / 9.237GiB 0.01% 1.01kB / 0B 0B / 0B 1

CONTAINER ID NAME CPU % MEM USAGE / LIMIT MEM % NET I/O BLOCK I/O PIDS

3ae57f6a5990 Ubuntu02 0.00% 1.398MiB / 9.237GiB 0.01% 1.01kB / 0B 0B / 0B 1

CONTAINER ID NAME CPU % MEM USAGE / LIMIT MEM % NET I/O BLOCK I/O PIDS

root@DESKTOP-SQGRBLG:/mnt/e/ubuntu-nginx# docker system events --since 2h

2024-01-11T12:38:34.418902900+05:30 container create a59e3f8da91d1155db4baa79195d99b0eb569e28393c93a438740fd6fa7ab75a (image=ubuntu, name=Lab2\_ubuntu\_container01, org.opencontainers.image.ref.name=ubuntu, org.opencontainers.image.version=22.04)

2024-01-11T12:38:34.475451800+05:30 network connect 43ba663dbe54a7daa9ba437bf0162aa771f1944770de07ddaff29e4afbabfcf2 (container=a59e3f8da91d1155db4baa79195d99b0eb569e28393c93a438740fd6fa7ab75a, name=bridge, type=bridge)

2024-01-11T12:38:34.938617200+05:30 container start a59e3f8da91d1155db4baa79195d99b0eb569e28393c93a438740fd6fa7ab75a (image=ubuntu, name=Lab2\_ubuntu\_container01, org.opencontainers.image.ref.name=ubuntu, org.opencontainers.image.version=22.04)

2024-01-11T12:49:25.211289400+05:30 container kill a59e3f8da91d1155db4baa79195d99b0eb569e28393c93a438740fd6fa7ab75a (image=ubuntu, name=Lab2\_ubuntu\_container01, org.opencontainers.image.ref.name=ubuntu, org.opencontainers.image.version=22.04, signal=15)

2024-01-11T12:49:35.284812200+05:30 container kill a59e3f8da91d1155db4baa79195d99b0eb569e28393c93a438740fd6fa7ab75a (image=ubuntu, name=Lab2\_ubuntu\_container01, org.opencontainers.image.ref.name=ubuntu, org.opencontainers.image.version=22.04, signal=9)

2024-01-11T12:49:35.713635900+05:30 network disconnect 43ba663dbe54a7daa9ba437bf0162aa771f1944770de07ddaff29e4afbabfcf2 (container=a59e3f8da91d1155db4baa79195d99b0eb569e28393c93a438740fd6fa7ab75a, name=bridge, type=bridge)

root@DESKTOP-SQGRBLG:/mnt/e/ubuntu-nginx# **docker container kill Ubuntu01**

**Ubuntu01**

root@DESKTOP-SQGRBLG:/mnt/e/ubuntu-nginx# **docker container kill Ubuntu02**

**Ubuntu02**

root@DESKTOP-SQGRBLG:/mnt/e/ubuntu-nginx#

root@DESKTOP-SQGRBLG:/mnt/e/ubuntu-nginx# docker container ls -a

CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES

9bb27904712e ubuntu "/bin/bash" About an hour ago Exited (137) 56 seconds ago Ubuntu01

3ae57f6a5990 ubuntu "/bin/bash" 21 hours ago Exited (137) 47 seconds ago Ubuntu02

171524831c19 ubuntu "/bin/bash" 21 hours ago Exited (0) 21 hours ago

root@DESKTOP-SQGRBLG:/mnt/e/ubuntu-nginx#

root@DESKTOP-SQGRBLG:/mnt/e/ubuntu-nginx# docker container rm Ubuntu01 Ubuntu02

Ubuntu01

Ubuntu02

root@DESKTOP-SQGRBLG:/mnt/e/ubuntu-nginx# docker container ls -a

CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES

63a60b0d7f99 ubuntu "/bin/bash" 43 minutes ago Exited (0) 43 minutes ago Ubuntu\_02

4f3937cd434c ubuntu "/bin/bash" 46 minutes ago Exited (127) 43 minutes ago trusting\_hugle

c60302e145b5 ubuntu "/bin/bash" About an hour ago Exited (0) About an hour ago gifted\_dhawan

fe4dafe8d646 ubuntu "/bin/bash" 2 hours ago Exited (137) 2 hours ago lab2\_ubuntu\_container

5419862f54e4 nginx "/docker-entrypoint.…" 19 hours ago Exited (255) 3 hours ago 80/tcp my\_ngnix\_container

171524831c19 ubuntu "/bin/bash" 22 hours ago Exited (0) 22 hours ago brave\_driscoll

cbcba3abc413 latest/ubuntu-nginx "/bin/bash -e /init/…" 22 hours ago Exited (0) 22 hours ago Ubcontainer

root@DESKTOP-SQGRBLG:/mnt/e/ubuntu-nginx#

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

18. Create a DockerHub account, set up a repository with meaningful name.

ismail.docker-b03

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