DOCKER ASSIGNMENT 02

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.

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.

10. 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.

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

12. 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.

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

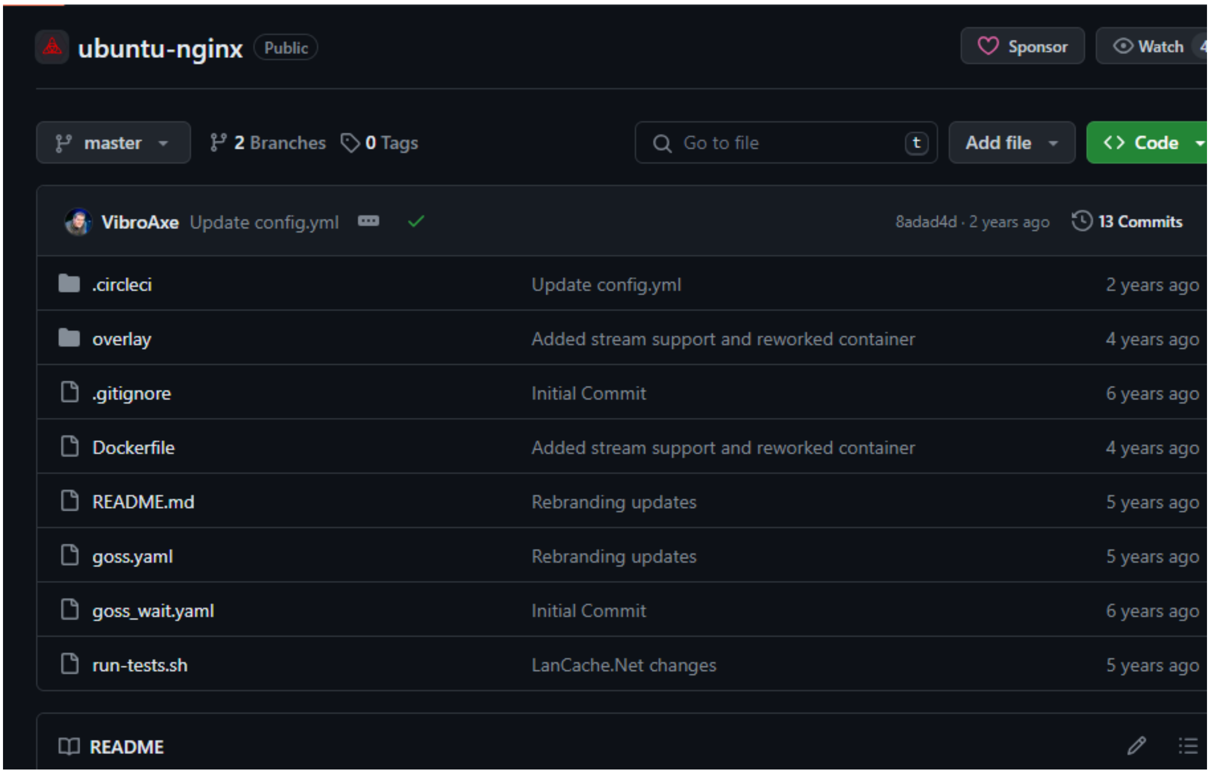
14. Examine system events, filtering them by date and the last 30 minutes. Additionally, apply two filters simultaneously using name and event.

15. 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.

16. 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.

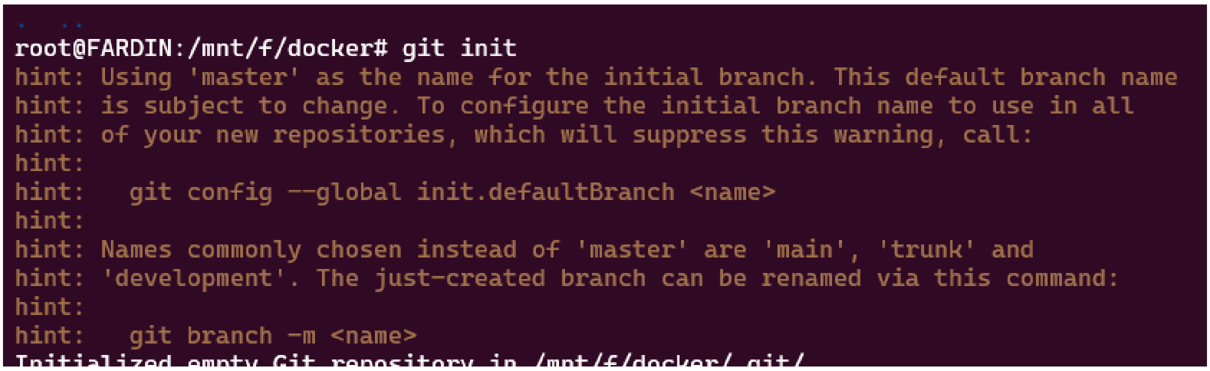
17. **Create a DockerHub account, set up a repository with meaningful name.**

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.**

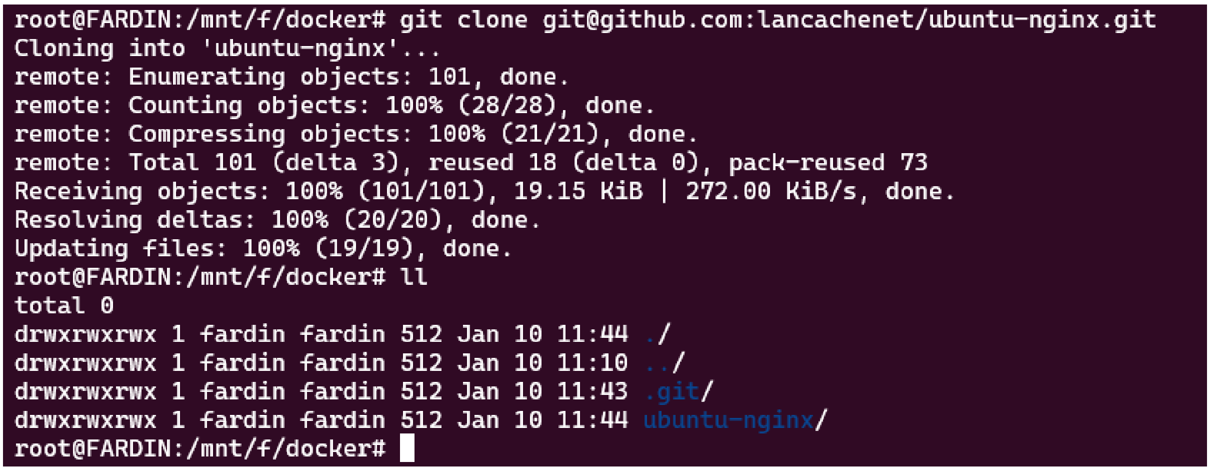


VibroAxe Update config.yml 8adad4d · 2 years ago 13 Commits

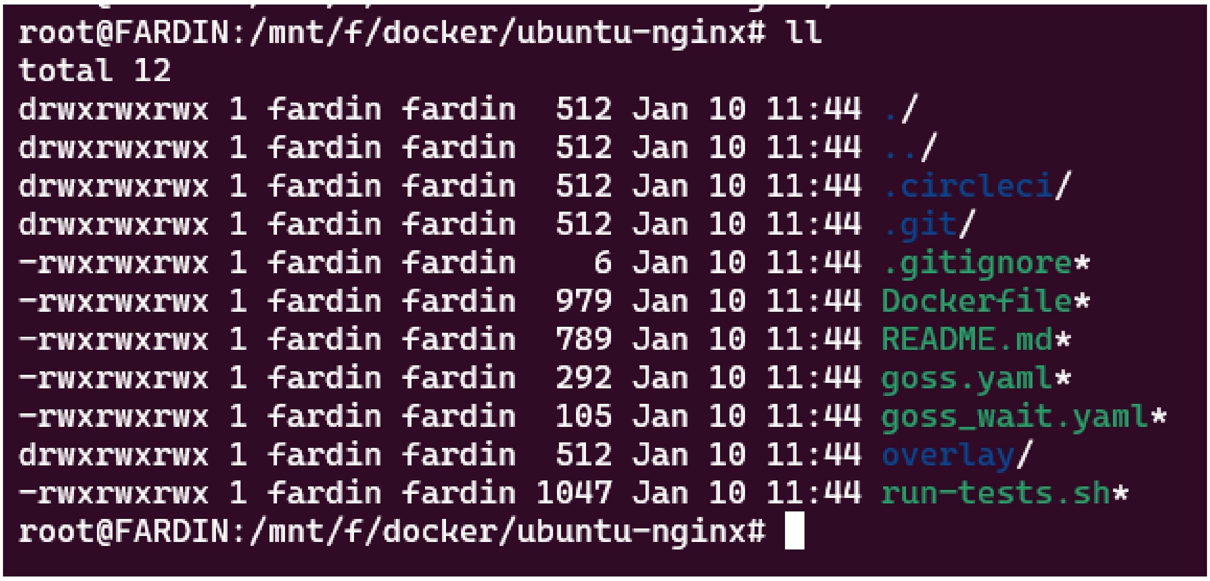
.circleci	Update config.yml	2 years ago
overlay	Added stream support and reworked container	4 years ago
.gitignore	Initial Commit	6 years ago
Dockerfile	Added stream support and reworked container	4 years ago
README.md	Rebranding updates	5 years ago
goss.yaml	Rebranding updates	5 years ago
goss_wait.yaml	Initial Commit	6 years ago
run-tests.sh	LanCache.Net changes	5 years ago



```
.  ..
root@FARDIN:/mnt/f/docker# git init
hint: Using 'master' as the name for the initial branch. This default branch name
hint: is subject to change. To configure the initial branch name to use in all
hint: of your new repositories, which will suppress this warning, call:
hint:
hint:   git config --global init.defaultBranch <name>
hint:
hint: Names commonly chosen instead of 'master' are 'main', 'trunk' and
hint: 'development'. The just-created branch can be renamed via this command:
hint:
hint:   git branch -m <name>
Initialized empty Git repository in /mnt/f/docker/.git/
```

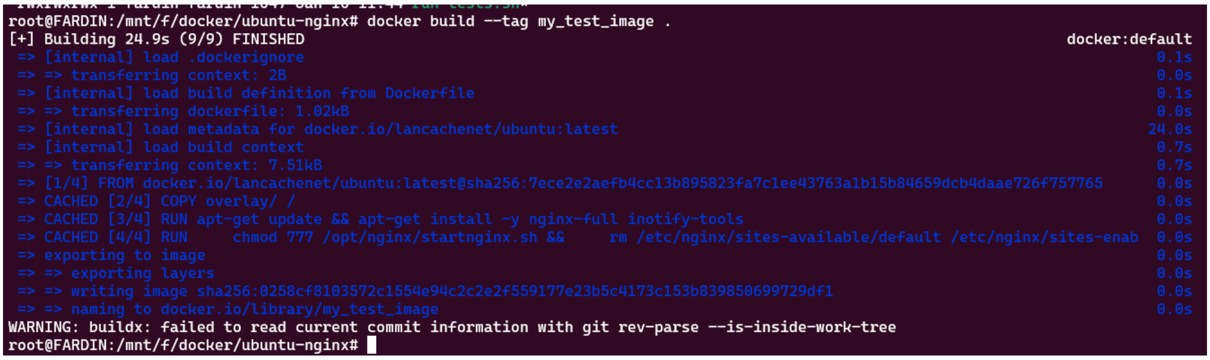


```
root@FARDIN:/mnt/f/docker# git clone git@github.com:lancachenet/ubuntu-nginx.git
Cloning into 'ubuntu-nginx'...
remote: Enumerating objects: 101, done.
remote: Counting objects: 100% (28/28), done.
remote: Compressing objects: 100% (21/21), done.
remote: Total 101 (delta 3), reused 18 (delta 0), pack-reused 73
Receiving objects: 100% (101/101), 19.15 KiB | 272.00 KiB/s, done.
Resolving deltas: 100% (20/20), done.
Updating files: 100% (19/19), done.
root@FARDIN:/mnt/f/docker# ll
total 0
drwxrwxrwx 1 fardin fardin 512 Jan 10 11:44 ./
drwxrwxrwx 1 fardin fardin 512 Jan 10 11:10 ../
drwxrwxrwx 1 fardin fardin 512 Jan 10 11:43 .git/
drwxrwxrwx 1 fardin fardin 512 Jan 10 11:44 ubuntu-nginx/
root@FARDIN:/mnt/f/docker#
```



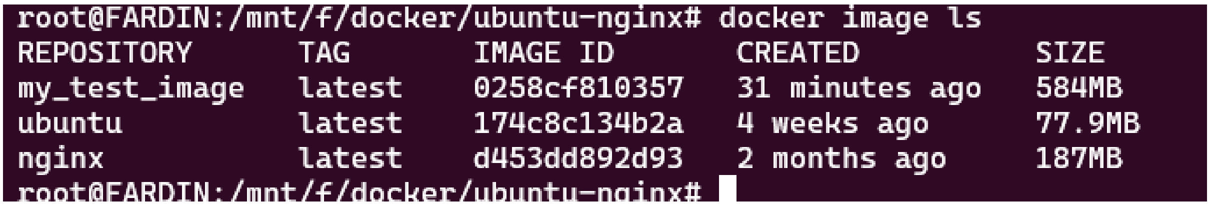
```
root@FARDIN:/mnt/f/docker/ubuntu-nginx# ll
total 12
drwxrwxrwx 1 fardin fardin  512 Jan 10 11:44 ./
drwxrwxrwx 1 fardin fardin  512 Jan 10 11:44 ../
drwxrwxrwx 1 fardin fardin  512 Jan 10 11:44 .circleci/
drwxrwxrwx 1 fardin fardin  512 Jan 10 11:44 .git/
-rwxrwxrwx 1 fardin fardin    6 Jan 10 11:44 .gitignore*
-rwxrwxrwx 1 fardin fardin  979 Jan 10 11:44 Dockerfile*
-rwxrwxrwx 1 fardin fardin  789 Jan 10 11:44 README.md*
-rwxrwxrwx 1 fardin fardin  292 Jan 10 11:44 goss.yaml*
-rwxrwxrwx 1 fardin fardin  105 Jan 10 11:44 goss_wait.yaml*
drwxrwxrwx 1 fardin fardin  512 Jan 10 11:44 overlay/
-rwxrwxrwx 1 fardin fardin 1047 Jan 10 11:44 run-tests.sh*
root@FARDIN:/mnt/f/docker/ubuntu-nginx#
```

Docker image build

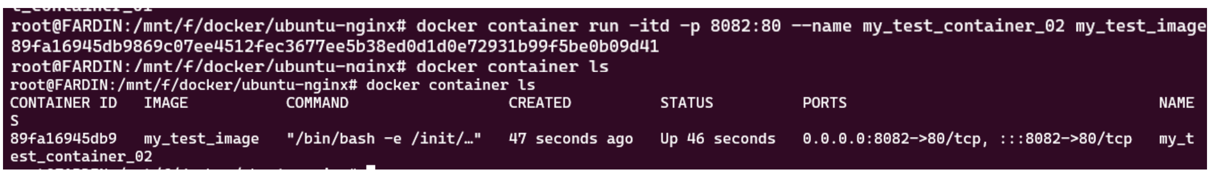


```
root@FARDIN:/mnt/f/docker/ubuntu-nginx# docker build --tag my_test_image .
[+] Building 24.9s (9/9) FINISHED                                                                                     docker:default
 => [internal] load .dockerignore                                                                                               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                                                           24.0s
 => [internal] load build context                                                                                               0.7s
 => => transferring context: 7.51kB                                                                                             0.7s
 => [1/4] FROM docker.io/lancachenet/ubuntu:latest@sha256:7ece2e2aefb4cc13b895823fa7c1ee43763a1b15b84659dcb4daae726f757765      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/sites-enab  0.0s
 => exporting to image                                                                                                          0.0s
 => => exporting layers                                                                                                         0.0s
 => => writing image sha256:0258cf8103572c1554e94c2c2e2f559177e23b5c4173c153b839850699729df1                                    0.0s
 => => naming to docker.io/library/my_test_image                                                                                0.0s
WARNING: buildx: failed to read current commit information with git rev-parse --is-inside-work-tree
root@FARDIN:/mnt/f/docker/ubuntu-nginx# 
```

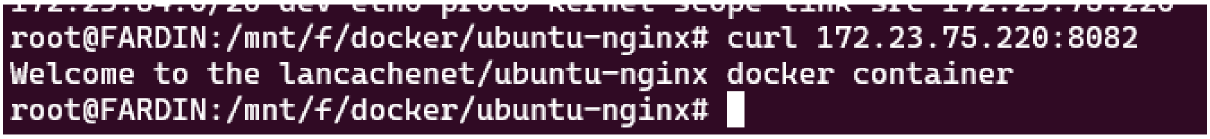
Q9. After building the image, run a Docker container using the image and check the webpage using the curl command to ensure it's accessible.



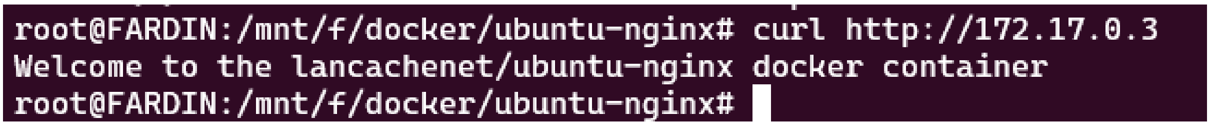
```
root@FARDIN:/mnt/f/docker/ubuntu-nginx# docker image ls
REPOSITORY       TAG       IMAGE ID       CREATED          SIZE
my_test_image    latest    0258cf810357   31 minutes ago   584MB
ubuntu           latest    174c8c134b2a   4 weeks ago      77.9MB
nginx            latest    d453dd892d93   2 months ago     187MB
root@FARDIN:/mnt/f/docker/ubuntu-nginx# 
```



```
t_container_01
root@FARDIN:/mnt/f/docker/ubuntu-nginx# docker container run -itd -p 8082:80 --name my_test_container_02 my_test_image
89fa16945db9869c07ee4512fec3677ee5b38ed0d1d0e72931b99f5be0b09d41
root@FARDIN:/mnt/f/docker/ubuntu-nginx# docker container ls
root@FARDIN:/mnt/f/docker/ubuntu-nginx# docker container ls
CONTAINER ID   IMAGE           COMMAND                  CREATED          STATUS          PORTS                                   NAME
S
89fa16945db9   my_test_image   "/bin/bash -e /init/…"   47 seconds ago   Up 46 seconds   0.0.0.0:8082->80/tcp, :::8082->80/tcp   my_t
est_container_02
```

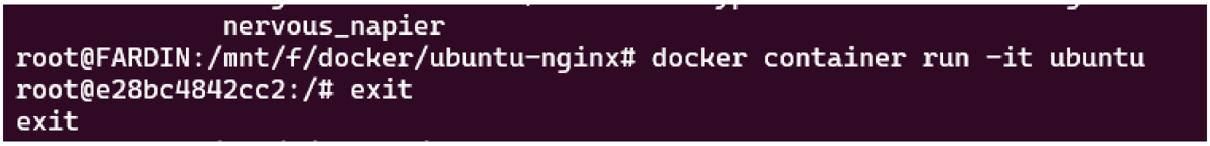


```
172.23.64.0/20 dev eth0 proto kernel scope link src 172.23.75.220
root@FARDIN:/mnt/f/docker/ubuntu-nginx# curl 172.23.75.220:8082
Welcome to the lancachenet/ubuntu-nginx docker container
root@FARDIN:/mnt/f/docker/ubuntu-nginx# 
```

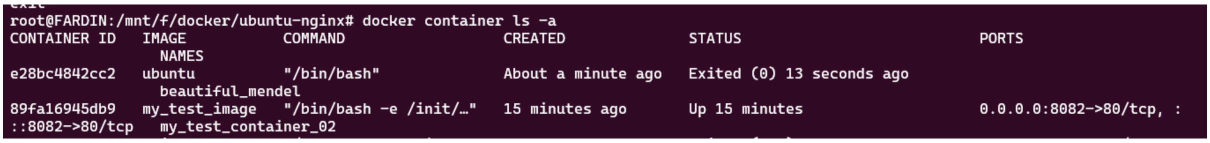


```
root@FARDIN:/mnt/f/docker/ubuntu-nginx# curl http://172.17.0.3
Welcome to the lancachenet/ubuntu-nginx docker container
root@FARDIN:/mnt/f/docker/ubuntu-nginx# 
```

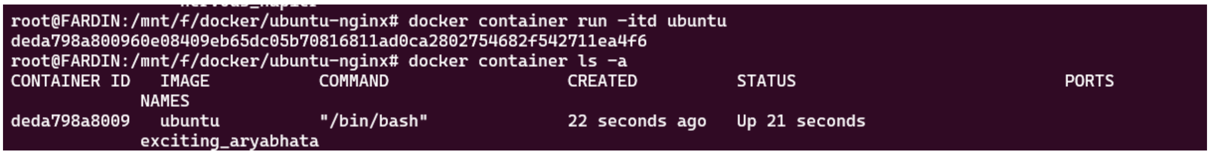
Q10.Launch an Ubuntu container, demonstrate that the escape sequence is functional, and reattach the container after detaching it with the escape sequence. Then, check the container's IP address.



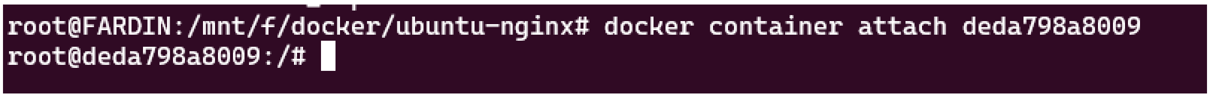
```
                nervous_napier
root@FARDIN:/mnt/f/docker/ubuntu-nginx# docker container run -it ubuntu
root@e28bc4842cc2:/# exit
exit
```



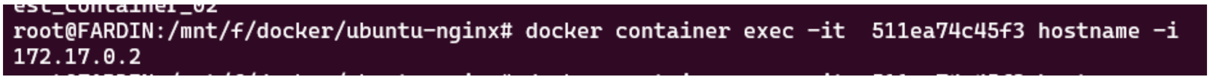
```
root@FARDIN:/mnt/f/docker/ubuntu-nginx# docker container ls -a
CONTAINER ID   IMAGE           COMMAND                  CREATED              STATUS                          PORTS
                 NAMES
e28bc4842cc2   ubuntu          "/bin/bash"              About a minute ago   Exited (0) 13 seconds ago
                 beautiful_mendel
89fa16945db9   my_test_image   "/bin/bash -e /init/…"   15 minutes ago       Up 15 minutes                   0.0.0.0:8082->80/tcp, :
::8082->80/tcp   my_test_container_02
```



```
root@FARDIN:/mnt/f/docker/ubuntu-nginx# docker container run -itd ubuntu
deda798a800960e08409eb65dc05b70816811ad0ca2802754682f542711ea4f6
root@FARDIN:/mnt/f/docker/ubuntu-nginx# docker container ls -a
CONTAINER ID   IMAGE           COMMAND                  CREATED          STATUS                            PORTS
               NAMES
deda798a8009   ubuntu          "/bin/bash"              22 seconds ago   Up 21 seconds
               exciting_aryabhata
```

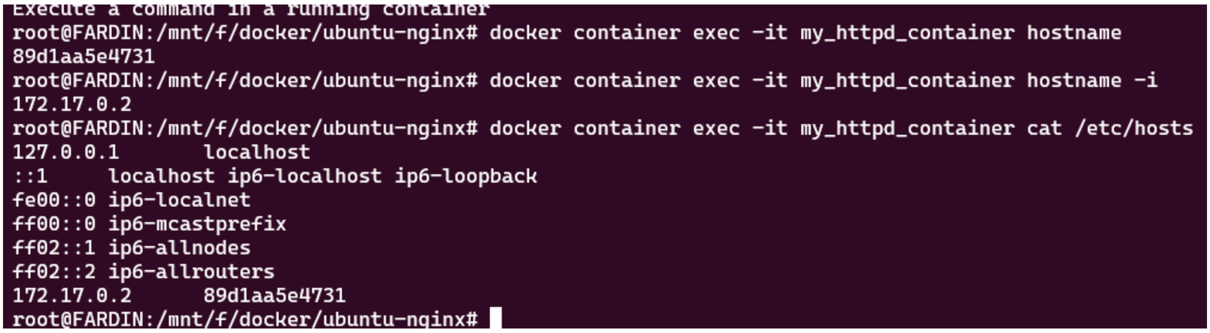


```
root@FARDIN:/mnt/f/docker/ubuntu-nginx# docker container attach deda798a8009
root@deda798a8009:/# █
```



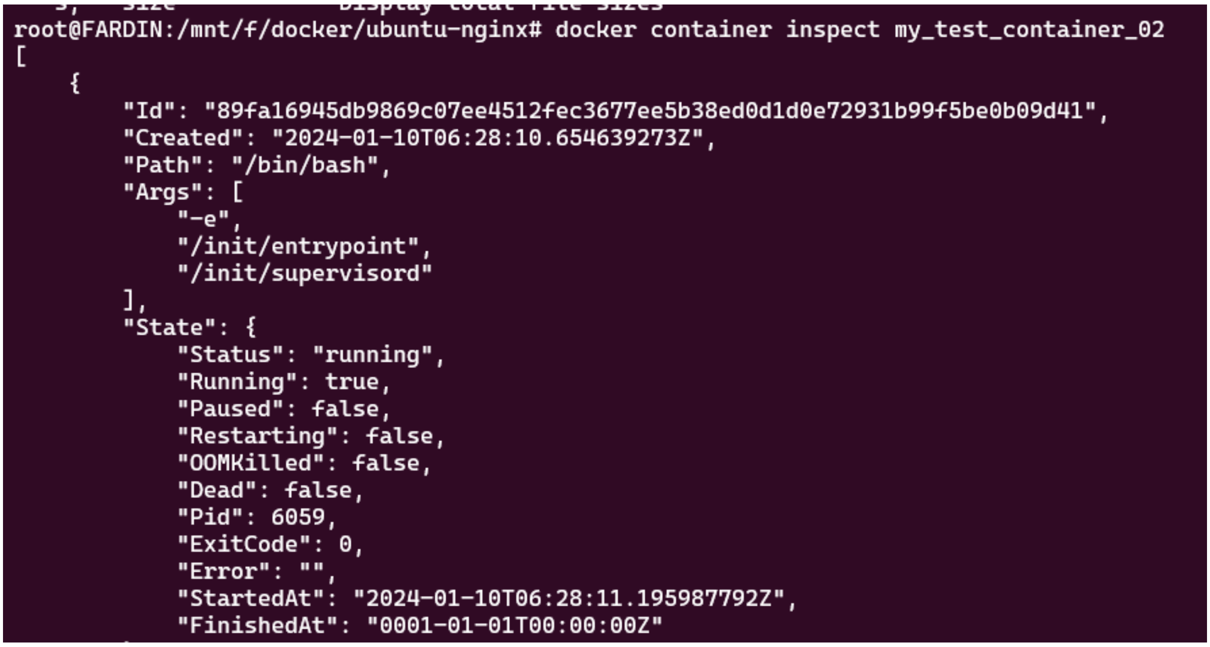
```
root@FARDIN:/mnt/f/docker/ubuntu-nginx# docker container exec -it  511ea74c45f3 hostname -i
172.17.0.2
```

Q11.Use a Docker command to inspect the hostname and /etc/hosts file of the httpd container.



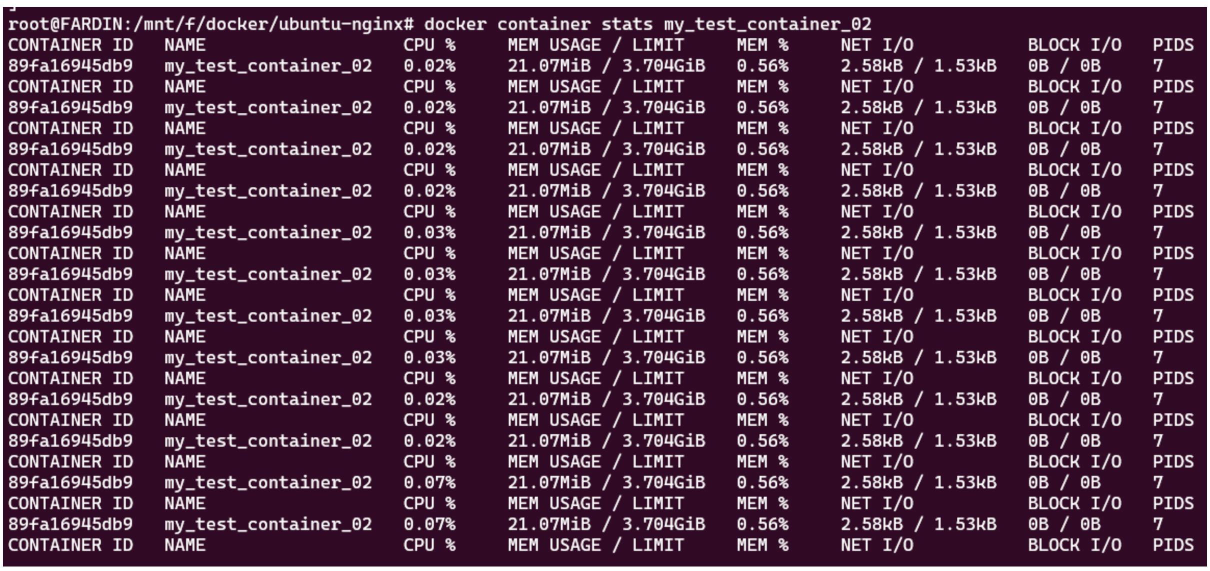
```
Execute a command in a running container
root@FARDIN:/mnt/f/docker/ubuntu-nginx# docker container exec -it my_httpd_container hostname
89d1aa5e4731
root@FARDIN:/mnt/f/docker/ubuntu-nginx# docker container exec -it my_httpd_container hostname -i
172.17.0.2
root@FARDIN:/mnt/f/docker/ubuntu-nginx# docker container exec -it my_httpd_container 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
172.17.0.2      89d1aa5e4731
root@FARDIN:/mnt/f/docker/ubuntu-nginx#
```

Q12.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.



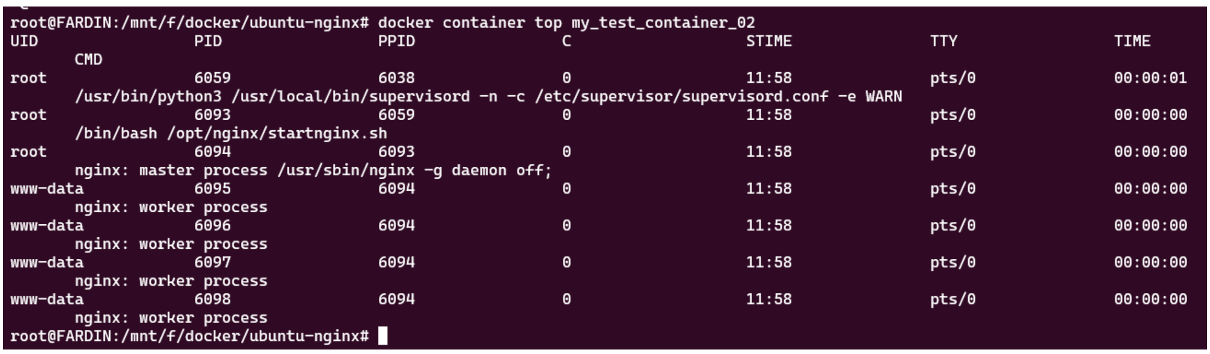
```
  -s, --size            Display total file sizes
root@FARDIN:/mnt/f/docker/ubuntu-nginx# docker container inspect my_test_container_02
[
    {
        "Id": "89fa16945db9869c07ee4512fec3677ee5b38ed0d1d0e72931b99f5be0b09d41",
        "Created": "2024-01-10T06:28:10.654639273Z",
        "Path": "/bin/bash",
        "Args": [
            "-e",
            "/init/entrypoint",
            "/init/supervisord"
        ],
        "State": {
            "Status": "running",
            "Running": true,
            "Paused": false,
            "Restarting": false,
            "OOMKilled": false,
            "Dead": false,
            "Pid": 6059,
            "ExitCode": 0,
            "Error": "",
            "StartedAt": "2024-01-10T06:28:11.195987792Z",
            "FinishedAt": "0001-01-01T00:00:00Z"
```

Docker container stats



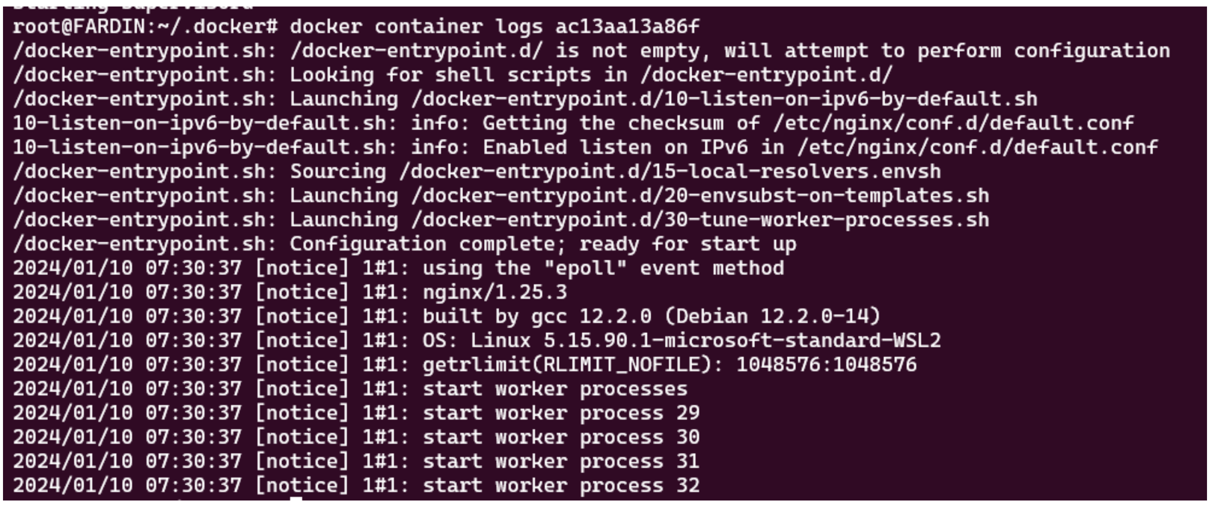
```
root@FARDIN:/mnt/f/docker/ubuntu-nginx# docker container stats my_test_container_02
CONTAINER ID   NAME                   CPU %     MEM USAGE / LIMIT     MEM %     NET I/O           BLOCK I/O   PIDS
89fa16945db9   my_test_container_02   0.02%     21.07MiB / 3.704GiB   0.56%     2.58kB / 1.53kB   0B / 0B     7
CONTAINER ID   NAME                   CPU %     MEM USAGE / LIMIT     MEM %     NET I/O           BLOCK I/O   PIDS
89fa16945db9   my_test_container_02   0.02%     21.07MiB / 3.704GiB   0.56%     2.58kB / 1.53kB   0B / 0B     7
CONTAINER ID   NAME                   CPU %     MEM USAGE / LIMIT     MEM %     NET I/O           BLOCK I/O   PIDS
89fa16945db9   my_test_container_02   0.02%     21.07MiB / 3.704GiB   0.56%     2.58kB / 1.53kB   0B / 0B     7
CONTAINER ID   NAME                   CPU %     MEM USAGE / LIMIT     MEM %     NET I/O           BLOCK I/O   PIDS
89fa16945db9   my_test_container_02   0.02%     21.07MiB / 3.704GiB   0.56%     2.58kB / 1.53kB   0B / 0B     7
CONTAINER ID   NAME                   CPU %     MEM USAGE / LIMIT     MEM %     NET I/O           BLOCK I/O   PIDS
89fa16945db9   my_test_container_02   0.03%     21.07MiB / 3.704GiB   0.56%     2.58kB / 1.53kB   0B / 0B     7
CONTAINER ID   NAME                   CPU %     MEM USAGE / LIMIT     MEM %     NET I/O           BLOCK I/O   PIDS
89fa16945db9   my_test_container_02   0.03%     21.07MiB / 3.704GiB   0.56%     2.58kB / 1.53kB   0B / 0B     7
CONTAINER ID   NAME                   CPU %     MEM USAGE / LIMIT     MEM %     NET I/O           BLOCK I/O   PIDS
89fa16945db9   my_test_container_02   0.03%     21.07MiB / 3.704GiB   0.56%     2.58kB / 1.53kB   0B / 0B     7
CONTAINER ID   NAME                   CPU %     MEM USAGE / LIMIT     MEM %     NET I/O           BLOCK I/O   PIDS
89fa16945db9   my_test_container_02   0.03%     21.07MiB / 3.704GiB   0.56%     2.58kB / 1.53kB   0B / 0B     7
CONTAINER ID   NAME                   CPU %     MEM USAGE / LIMIT     MEM %     NET I/O           BLOCK I/O   PIDS
89fa16945db9   my_test_container_02   0.02%     21.07MiB / 3.704GiB   0.56%     2.58kB / 1.53kB   0B / 0B     7
CONTAINER ID   NAME                   CPU %     MEM USAGE / LIMIT     MEM %     NET I/O           BLOCK I/O   PIDS
89fa16945db9   my_test_container_02   0.02%     21.07MiB / 3.704GiB   0.56%     2.58kB / 1.53kB   0B / 0B     7
CONTAINER ID   NAME                   CPU %     MEM USAGE / LIMIT     MEM %     NET I/O           BLOCK I/O   PIDS
89fa16945db9   my_test_container_02   0.07%     21.07MiB / 3.704GiB   0.56%     2.58kB / 1.53kB   0B / 0B     7
CONTAINER ID   NAME                   CPU %     MEM USAGE / LIMIT     MEM %     NET I/O           BLOCK I/O   PIDS
89fa16945db9   my_test_container_02   0.07%     21.07MiB / 3.704GiB   0.56%     2.58kB / 1.53kB   0B / 0B     7
CONTAINER ID   NAME                   CPU %     MEM USAGE / LIMIT     MEM %     NET I/O           BLOCK I/O   PIDS
```

Docker container top



```
root@FARDIN:/mnt/f/docker/ubuntu-nginx# docker container top my_test_container_02
UID                 PID                 PPID                C                   STIME               TTY                 TIME
       CMD
root                6059                6038                0                   11:58               pts/0               00:00:01
       /usr/bin/python3 /usr/local/bin/supervisord -n -c /etc/supervisor/supervisord.conf -e WARN
root                6093                6059                0                   11:58               pts/0               00:00:00
       /bin/bash /opt/nginx/startnginx.sh
root                6094                6093                0                   11:58               pts/0               00:00:00
       nginx: master process /usr/sbin/nginx -g daemon off;
www-data            6095                6094                0                   11:58               pts/0               00:00:00
       nginx: worker process
www-data            6096                6094                0                   11:58               pts/0               00:00:00
       nginx: worker process
www-data            6097                6094                0                   11:58               pts/0               00:00:00
       nginx: worker process
www-data            6098                6094                0                   11:58               pts/0               00:00:00
       nginx: worker process
root@FARDIN:/mnt/f/docker/ubuntu-nginx# 
```

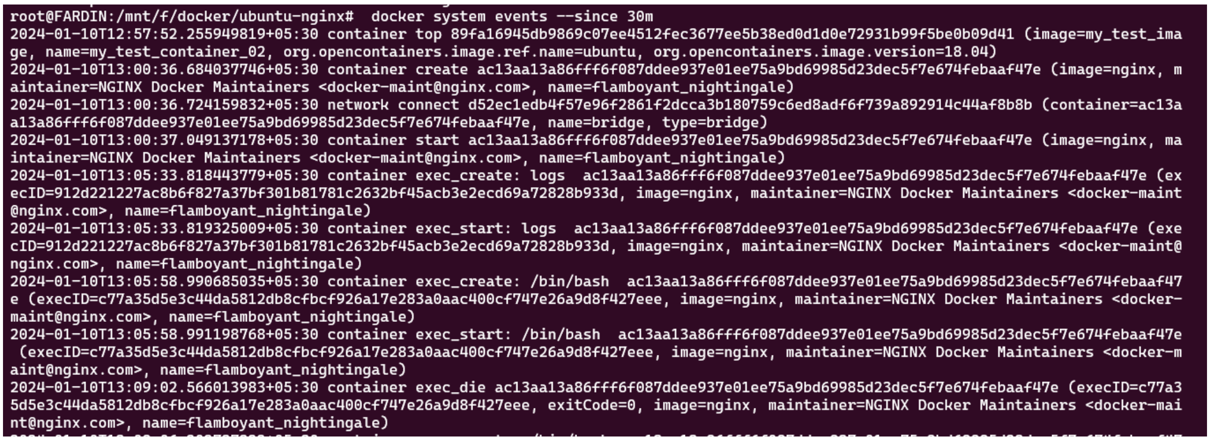
Q13.Start a new Nginx container and review the logs for both Nginx containers.



```
root@FARDIN:~/.docker# docker container logs ac13aa13a86f
/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 07:30:37 [notice] 1#1: using the "epoll" event method
2024/01/10 07:30:37 [notice] 1#1: nginx/1.25.3
2024/01/10 07:30:37 [notice] 1#1: built by gcc 12.2.0 (Debian 12.2.0-14)
2024/01/10 07:30:37 [notice] 1#1: OS: Linux 5.15.90.1-microsoft-standard-WSL2
2024/01/10 07:30:37 [notice] 1#1: getrlimit(RLIMIT_NOFILE): 1048576:1048576
2024/01/10 07:30:37 [notice] 1#1: start worker processes
2024/01/10 07:30:37 [notice] 1#1: start worker process 29
2024/01/10 07:30:37 [notice] 1#1: start worker process 30
2024/01/10 07:30:37 [notice] 1#1: start worker process 31
2024/01/10 07:30:37 [notice] 1#1: start worker process 32
```

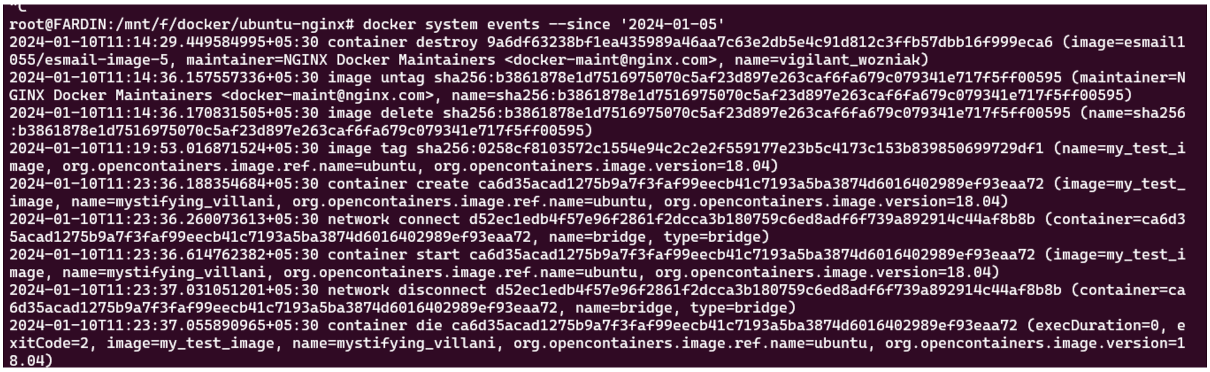
Q14 . Examine system events, filtering them by date and the last 30 minutes. Additionally, apply two filters simultaneously using name and event.

System events Filtering 30 minutes



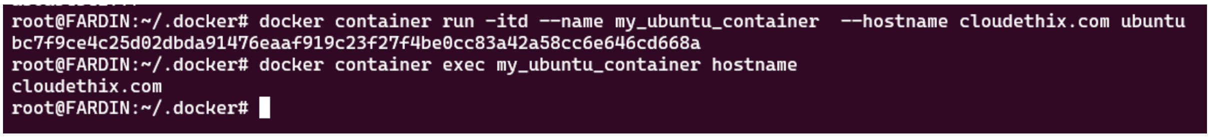
```
root@FARDIN:/mnt/f/docker/ubuntu-nginx#  docker system events --since 30m
2024-01-10T12:57:52.255949819+05:30 container top 89fa16945db9869c07ee4512fec3677ee5b38ed0d1d0e72931b99f5be0b09d41 (image=my_test_ima
ge, name=my_test_container_02, org.opencontainers.image.ref.name=ubuntu, org.opencontainers.image.version=18.04)
2024-01-10T13:00:36.684037746+05:30 container create ac13aa13a86fff6f087ddee937e01ee75a9bd69985d23dec5f7e674febaaf47e (image=nginx, m
aintainer=NGINX Docker Maintainers <docker-maint@nginx.com>, name=flamboyant_nightingale)
2024-01-10T13:00:36.724159832+05:30 network connect d52ec1edb4f57e96f2861f2dcca3b180759c6ed8adf6f739a892914c44af8b8b (container=ac13a
a13a86fff6f087ddee937e01ee75a9bd69985d23dec5f7e674febaaf47e, name=bridge, type=bridge)
2024-01-10T13:00:37.049137178+05:30 container start ac13aa13a86fff6f087ddee937e01ee75a9bd69985d23dec5f7e674febaaf47e (image=nginx, ma
intainer=NGINX Docker Maintainers <docker-maint@nginx.com>, name=flamboyant_nightingale)
2024-01-10T13:05:33.818443779+05:30 container exec_create: logs  ac13aa13a86fff6f087ddee937e01ee75a9bd69985d23dec5f7e674febaaf47e (ex
ecID=912d221227ac8b6f827a37bf301b81781c2632bf45acb3e2ecd69a72828b933d, image=nginx, maintainer=NGINX Docker Maintainers <docker-maint
@nginx.com>, name=flamboyant_nightingale)
2024-01-10T13:05:33.819325009+05:30 container exec_start: logs  ac13aa13a86fff6f087ddee937e01ee75a9bd69985d23dec5f7e674febaaf47e (exe
cID=912d221227ac8b6f827a37bf301b81781c2632bf45acb3e2ecd69a72828b933d, image=nginx, maintainer=NGINX Docker Maintainers <docker-maint@
nginx.com>, name=flamboyant_nightingale)
2024-01-10T13:05:58.990685035+05:30 container exec_create: /bin/bash  ac13aa13a86fff6f087ddee937e01ee75a9bd69985d23dec5f7e674febaaf47
e (execID=c77a35d5e3c44da5812db8cfbcf926a17e283a0aac400cf747e26a9d8f427eee, image=nginx, maintainer=NGINX Docker Maintainers <docker-
maint@nginx.com>, name=flamboyant_nightingale)
2024-01-10T13:05:58.991198768+05:30 container exec_start: /bin/bash  ac13aa13a86fff6f087ddee937e01ee75a9bd69985d23dec5f7e674febaaf47e
 (execID=c77a35d5e3c44da5812db8cfbcf926a17e283a0aac400cf747e26a9d8f427eee, image=nginx, maintainer=NGINX Docker Maintainers <docker-m
aint@nginx.com>, name=flamboyant_nightingale)
2024-01-10T13:09:02.566013983+05:30 container exec_die ac13aa13a86fff6f087ddee937e01ee75a9bd69985d23dec5f7e674febaaf47e (execID=c77a3
5d5e3c44da5812db8cfbcf926a17e283a0aac400cf747e26a9d8f427eee, exitCode=0, image=nginx, maintainer=NGINX Docker Maintainers <docker-mai
nt@nginx.com>, name=flamboyant_nightingale)
```

System events Filtering by date

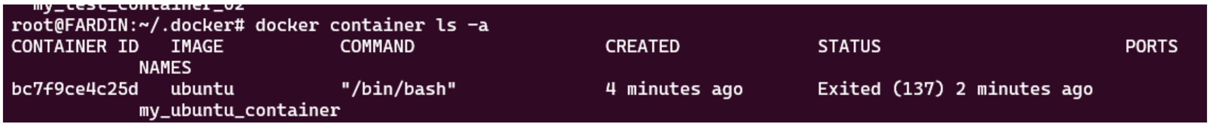


```
root@FARDIN:/mnt/f/docker/ubuntu-nginx# docker system events --since '2024-01-05'
2024-01-10T11:14:29.449584995+05:30 container destroy 9a6df63238bf1ea435989a46aa7c63e2db5e4c91d812c3ffb57dbb16f999eca6 (image=esmail1
055/esmail-image-5, maintainer=NGINX Docker Maintainers <docker-maint@nginx.com>, name=vigilant_wozniak)
2024-01-10T11:14:36.157557336+05:30 image untag sha256:b3861878e1d7516975070c5af23d897e263caf6fa679c079341e717f5ff00595 (maintainer=N
GINX Docker Maintainers <docker-maint@nginx.com>, name=sha256:b3861878e1d7516975070c5af23d897e263caf6fa679c079341e717f5ff00595)
2024-01-10T11:14:36.170831505+05:30 image delete sha256:b3861878e1d7516975070c5af23d897e263caf6fa679c079341e717f5ff00595 (name=sha256
:b3861878e1d7516975070c5af23d897e263caf6fa679c079341e717f5ff00595)
2024-01-10T11:19:53.01687152 4+05:30 image tag sha256:0258cf8103572c1554e94c2c2e2f559177e23b5c4173c153b839850699729df1 (name=my_test_i
mage, org.opencontainers.image.ref.name=ubuntu, org.opencontainers.image.version=18.04)
2024-01-10T11:23:36.188354684+05:30 container create ca6d35acad1275b9a7f3faf99eecb41c7193a5ba3874d6016402989ef93eaa72 (image=my_test_
image, name=mystifying_villani, org.opencontainers.image.ref.name=ubuntu, org.opencontainers.image.version=18.04)
2024-01-10T11:23:36.260073613+05:30 network connect d52ec1edb4f57e96f2861f2dcca3b180759c6ed8adf6f739a892914c44af8b8b (container=ca6d3
5acad1275b9a7f3faf99eecb41c7193a5ba3874d6016402989ef93eaa72, name=bridge, type=bridge)
2024-01-10T11:23:36.614762382+05:30 container start ca6d35acad1275b9a7f3faf99eecb41c7193a5ba3874d6016402989ef93eaa72 (image=my_test_i
mage, name=mystifying_villani, org.opencontainers.image.ref.name=ubuntu, org.opencontainers.image.version=18.04)
2024-01-10T11:23:37.031051201+05:30 network disconnect d52ec1edb4f57e96f2861f2dcca3b180759c6ed8adf6f739a892914c44af8b8b (container=ca
6d35acad1275b9a7f3faf99eecb41c7193a5ba3874d6016402989ef93eaa72, name=bridge, type=bridge)
2024-01-10T11:23:37.055890965+05:30 container die ca6d35acad1275b9a7f3faf99eecb41c7193a5ba3874d6016402989ef93eaa72 (execDuration=0, e
xitCode=2, image=my_test_image, name=mystifying_villani, org.opencontainers.image.ref.name=ubuntu, org.opencontainers.image.version=1
8.04)
```

Q15.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.

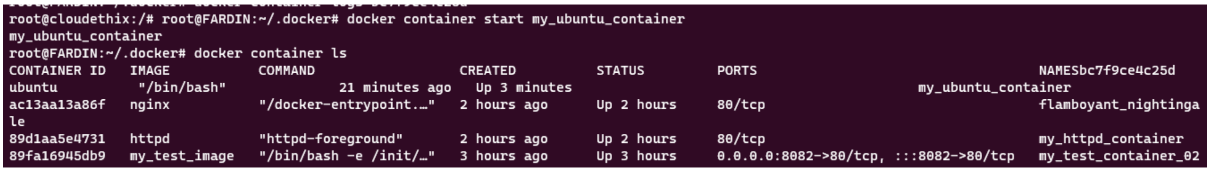


```
root@FARDIN:~/.docker# docker container run -itd --name my_ubuntu_container  --hostname cloudethix.com ubuntu
bc7f9ce4c25d02dbda91476eaaf919c23f27f4be0cc83a42a58cc6e646cd668a
root@FARDIN:~/.docker# docker container exec my_ubuntu_container hostname
cloudethix.com
root@FARDIN:~/.docker# 
```

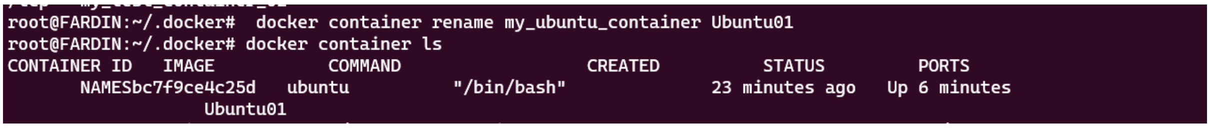


```
root@FARDIN:~/.docker# docker container ls -a
CONTAINER ID   IMAGE           COMMAND                CREATED          STATUS                       PORTS
          NAMES
bc7f9ce4c25d   ubuntu          "/bin/bash"            4 minutes ago    Exited (137) 2 minutes ago
          my_ubuntu_container
```

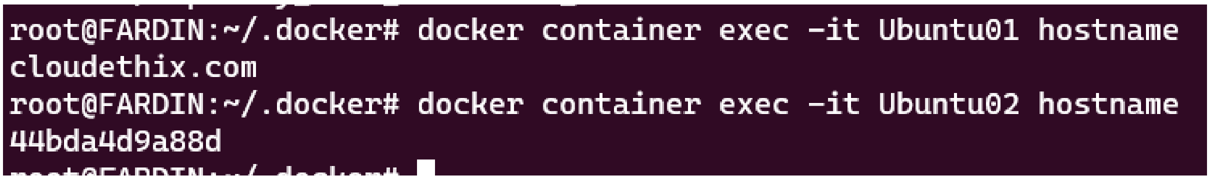
Q16.Instantiate and start an Ubuntu container with a random name, then rename it to "Ubuntu01." Launch another container named "Ubuntu02" and check the hostname of both containers. Pause and un-pause the "Ubuntu02" container, and stop, start, and restart the "Ubuntu01" container. Inspect the stats and system events of both containers, then kill and delete them, ensuring that directories created by the containers are removed.



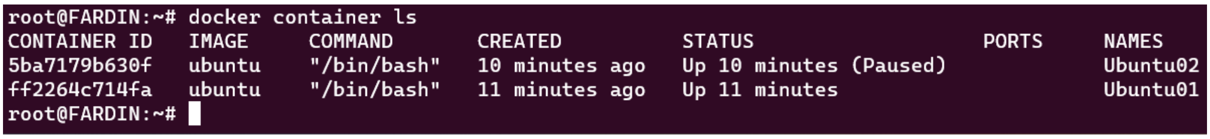
```
root@cloudethix:/# root@FARDIN:~/.docker# docker container start my_ubuntu_container
my_ubuntu_container
root@FARDIN:~/.docker# docker container ls
CONTAINER ID   IMAGE          COMMAND                  CREATED        STATUS       PORTS                                       NAMESbc7f9ce4c25d
ubuntu          "/bin/bash"             21 minutes ago   Up 3 minutes                                          my_ubuntu_container
ac13aa13a86f   nginx          "/docker-entrypoint.…"   2 hours ago    Up 2 hours   80/tcp                                      flamboyant_nightinga
le
89d1aa5e4731   httpd          "httpd-foreground"       2 hours ago    Up 2 hours   80/tcp                                      my_httpd_container
89fa16945db9   my_test_image  "/bin/bash -e /init/…"   3 hours ago    Up 3 hours   0.0.0.0:8082->80/tcp, :::8082->80/tcp   my_test_container_02
```



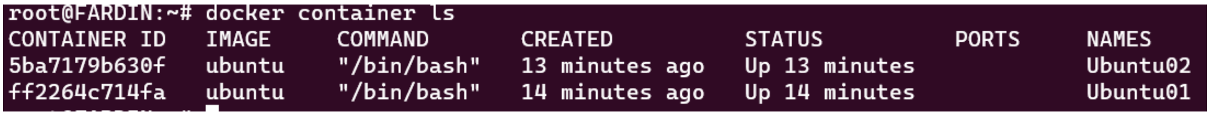
```
root@FARDIN:~/.docker#  docker container rename my_ubuntu_container Ubuntu01
root@FARDIN:~/.docker# docker container ls
CONTAINER ID   IMAGE           COMMAND                    CREATED          STATUS         PORTS
       NAMESbc7f9ce4c25d   ubuntu          "/bin/bash"              23 minutes ago   Up 6 minutes
                 Ubuntu01
```



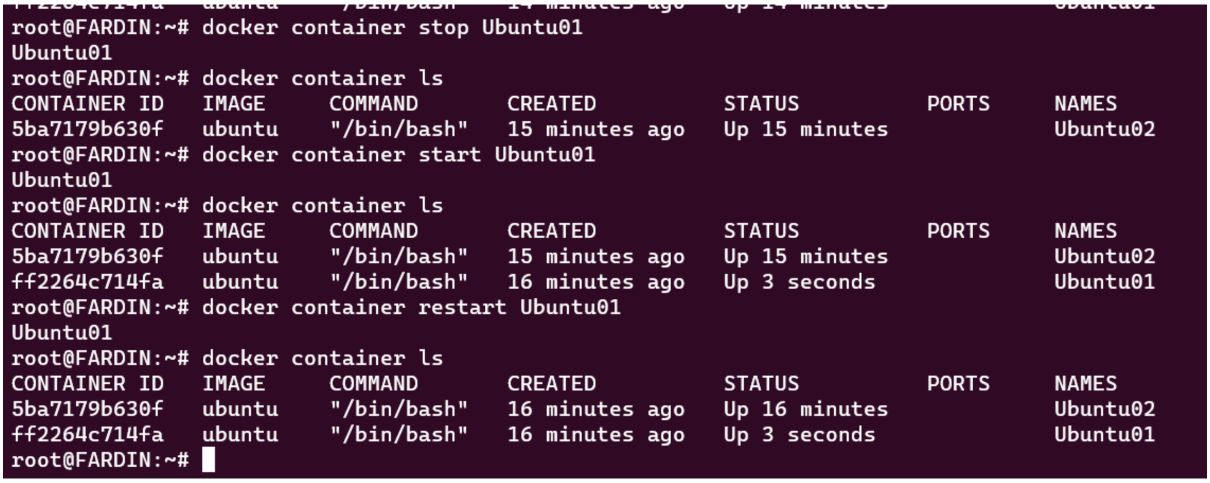
```
root@FARDIN:~/.docker# docker container exec -it Ubuntu01 hostname
cloudethix.com
root@FARDIN:~/.docker# docker container exec -it Ubuntu02 hostname
44bda4d9a88d
```



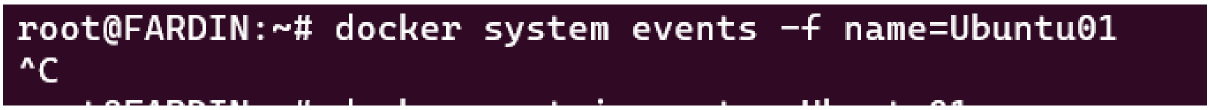
```
root@FARDIN:~# docker container ls
CONTAINER ID   IMAGE     COMMAND       CREATED          STATUS                     PORTS     NAMES
5ba7179b630f   ubuntu    "/bin/bash"   10 minutes ago   Up 10 minutes (Paused)               Ubuntu02
ff2264c714fa   ubuntu    "/bin/bash"   11 minutes ago   Up 11 minutes                        Ubuntu01
root@FARDIN:~# 
```



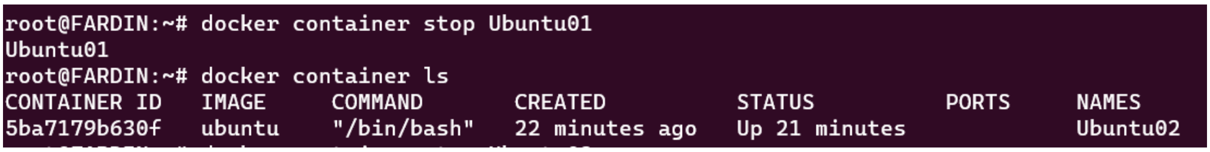
```
root@FARDIN:~# docker container ls
CONTAINER ID   IMAGE     COMMAND       CREATED          STATUS          PORTS     NAMES
5ba7179b630f   ubuntu    "/bin/bash"   13 minutes ago   Up 13 minutes             Ubuntu02
ff2264c714fa   ubuntu    "/bin/bash"   14 minutes ago   Up 14 minutes             Ubuntu01
```



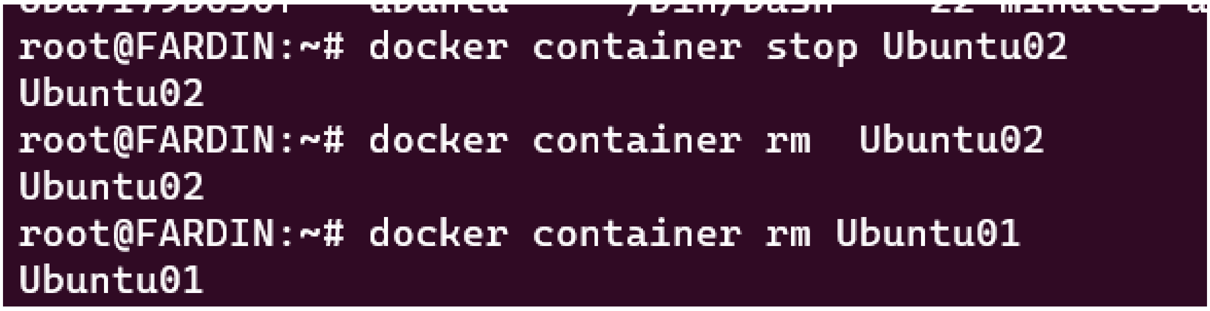
```
root@FARDIN:~# docker container stop Ubuntu01
Ubuntu01
root@FARDIN:~# docker container ls
CONTAINER ID   IMAGE     COMMAND       CREATED          STATUS          PORTS     NAMES
5ba7179b630f   ubuntu    "/bin/bash"   15 minutes ago   Up 15 minutes             Ubuntu02
root@FARDIN:~# docker container start Ubuntu01
Ubuntu01
root@FARDIN:~# docker container ls
CONTAINER ID   IMAGE     COMMAND       CREATED          STATUS          PORTS     NAMES
5ba7179b630f   ubuntu    "/bin/bash"   15 minutes ago   Up 15 minutes             Ubuntu02
ff2264c714fa   ubuntu    "/bin/bash"   16 minutes ago   Up 3 seconds              Ubuntu01
root@FARDIN:~# docker container restart Ubuntu01
Ubuntu01
root@FARDIN:~# docker container ls
CONTAINER ID   IMAGE     COMMAND       CREATED          STATUS          PORTS     NAMES
5ba7179b630f   ubuntu    "/bin/bash"   16 minutes ago   Up 16 minutes             Ubuntu02
ff2264c714fa   ubuntu    "/bin/bash"   16 minutes ago   Up 3 seconds              Ubuntu01
root@FARDIN:~#
```



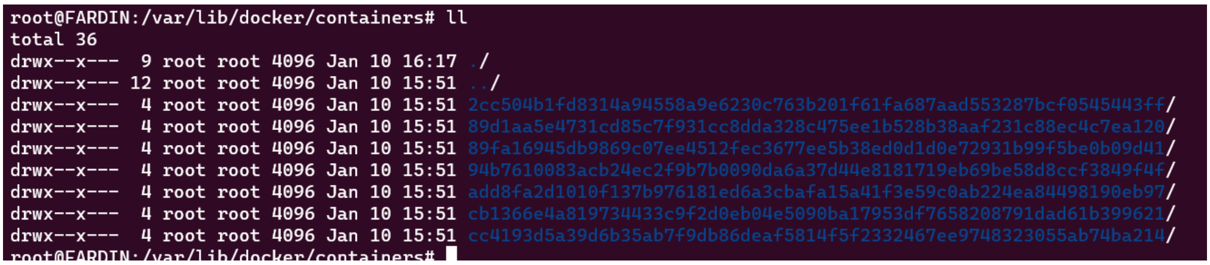
```
root@FARDIN:~# docker system events -f name=Ubuntu01
^C
```



```
root@FARDIN:~# docker container stop Ubuntu01
Ubuntu01
root@FARDIN:~# docker container ls
CONTAINER ID   IMAGE     COMMAND       CREATED          STATUS          PORTS     NAMES
5ba7179b630f   ubuntu    "/bin/bash"   22 minutes ago   Up 21 minutes             Ubuntu02
```

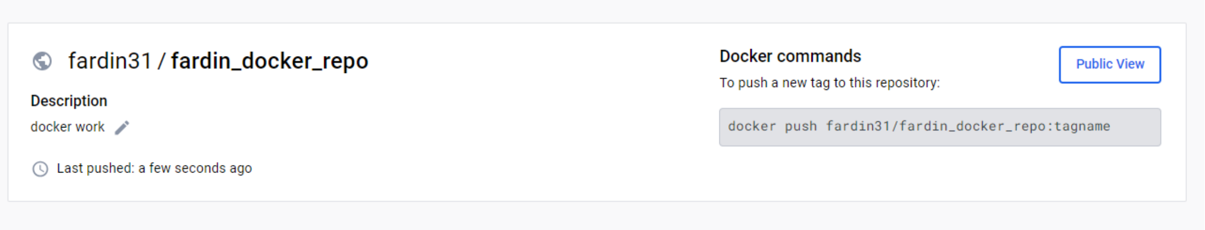


```
root@FARDIN:~# docker container stop Ubuntu02
Ubuntu02
root@FARDIN:~# docker container rm  Ubuntu02
Ubuntu02
root@FARDIN:~# docker container rm Ubuntu01
Ubuntu01
```



```
root@FARDIN:/var/lib/docker/containers# ll
total 36
drwx--x---  9 root root 4096 Jan 10 16:17 ./
drwx--x--- 12 root root 4096 Jan 10 15:51 ../
drwx--x---  4 root root 4096 Jan 10 15:51 2cc504b1fd8314a94558a9e6230c763b201f61fa687aad553287bcf0545443ff/
drwx--x---  4 root root 4096 Jan 10 15:51 89d1aa5e4731cd85c7f931cc8dda328c475ee1b528b38aaf231c88ec4c7ea120/
drwx--x---  4 root root 4096 Jan 10 15:51 89fa16945db9869c07ee4512fec3677ee5b38ed0d1d0e72931b99f5be0b09d41/
drwx--x---  4 root root 4096 Jan 10 15:51 94b7610083acb24ec2f9b7b0090da6a37d44e8181719eb69be58d8ccf3849f4f/
drwx--x---  4 root root 4096 Jan 10 15:51 add8fa2d1010f137b976181ed6a3cbafa15a41f3e59c0ab224ea84498190eb97/
drwx--x---  4 root root 4096 Jan 10 15:51 cb1366e4a819734433c9f2d0eb04e5090ba17953df7658208791dad61b399621/
drwx--x---  4 root root 4096 Jan 10 15:51 cc4193d5a39d6b35ab7f9db86deaf5814f5f2332467ee9748323055ab74ba214/
root@FARDIN:/var/lib/docker/containers#
```

Q17.Create a DockerHub account, set up a repository with meaningful name.



fardin31 / fardin_docker_repo

Description

docker work

Last pushed: a few seconds ago

Docker commands

To push a new tag to this repository:

```
docker push fardin31/fardin_docker_repo:tagname
```