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.

```
Nilam# git clone https://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 | 1.06 MiB/s, done.
Resolving deltas: 100% (20/20), done.
Nilam#
```

```
Nilam# ls
Nilam  buildx  config.json  ubuntu-nginx
Nilam# cd ubuntu-nginx
Nilam# ls
Dockerfile  README.md  goss.yaml  goss_wait.yaml  overlay  run-tests.sh
Nilam# docker image build . --tag nil_image
[+] Building 71.6s (10/10) FINISHED                                                                  docker:default
 => [internal] load .dockerignore                                                                            0.0s
 => => transferring context: 2B                                                                              0.0s
 => [internal] load build definition from Dockerfile                                                         0.0s
 => => transferring dockerfile: 1.02kB                                                                       0.0s
 => [internal] load metadata for docker.io/lancachenet/ubuntu:latest                                        13.2s
 => [auth] lancachenet/ubuntu:pull token for registry-1.docker.io                                            0.0s
 => [internal] load build context                                                                            0.0s
 => => transferring context: 7.51kB                                                                          0.0s
 => [1/4] FROM docker.io/lancachenet/ubuntu:latest@sha256:7ece2e2aefb4cc13b895823fa7c1ee43763a1b15b84659dcb4daae726f757765  28.8s
 => => resolve docker.io/lancachenet/ubuntu:latest@sha256:7ece2e2aefb4cc13b895823fa7c1ee43763a1b15b84659dcb4daae726f757765  0.0s
 => => sha256:7ece2e2aefb4cc13b895823fa7c1ee43763a1b15b84659dcb4daae726f757765 1.57kB / 1.57kB               0.0s
 => => sha256:670916736000a9194948bb34fc0eb35d0bf950fca93cee7b4c0bedcd5b7e2ce3 5.32kB / 5.32kB               0.0s
 => => sha256:41af1b5f0f51947706ae712999cf098bef968a7799e7cb4bb2268829e62a6ab3 26.72MB / 26.72MB            3.1s
 => => sha256:900413b3fecbaf33a52810bf85c4813dca098cb81a93c89a8b5ee7e0e03f9cf4 198.15MB / 198.15MB          20.9s
 => => sha256:ff9336c01251bbe9df134b491f917d80b5a838061af094262fef71975eba9c0f 992.47kB / 992.47kB          2.2s
 => => sha256:9c6fa86d5865b202c1355539171d9f0e34a2b80e820cbfbd6e0c9cf22936d852 668B / 668B                  4.0s
 => => extracting sha256:41af1b5f0f51947706ae712999cf098bef968a7799e7cb4bb2268829e62a6ab3                    1.5s
```

```
Nilam# docker image ls
REPOSITORY    TAG      IMAGE ID       CREATED         SIZE
nil_image     latest   53674603dd32   10 seconds ago  584MB
ubuntu        latest   174c8c134b2a   4 weeks ago     77.9MB
nginx         latest   d453dd892d93   2 months ago    187MB
httpd         latest   6fd77d7e5eb7   2 months ago    167MB
Nilam#
```

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.

```
Nilam# docker container run -itd nil_image
4630b5ad0f8ff19c8c97a6aabffa3fd1aae6c8e00bb48d70f5b35ab3fc0f00d5
Nilam#
Nilam# docker container ls
CONTAINER ID   IMAGE       COMMAND                 CREATED         STATUS        PORTS                                        NAMES
4630b5ad0f8f   nil_image   "/bin/bash -e /init/…"  9 seconds ago   Up 8 seconds  80/tcp                                       focused_proskuriakova
8de88053a2f6   nginx       "/docker-entrypoint.…"  5 hours ago     Up 5 hours    0.0.0.0:8282->80/tcp, :::8282->80/tcp        Nilam_nginx
```

```
Nilam# curl http://172.17.0.3
Welcome to the lancachenet/ubuntu-nginx docker container
Nilam#
```

10Launch 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.

```
Nilam# docker container run -it ubuntu
root@0e760635328a:/# exit
exit
Nilam# docker container ls -a
CONTAINER ID   IMAGE       COMMAND                 CREATED         STATUS                  PORTS    NAMES
0e760635328a   ubuntu      "/bin/bash"             52 seconds ago  Exited (0) 8 seconds ago         inspiring_wi
lbur
4630b5ad0f8f   nil_image   "/bin/bash -e /init/…"  12 minutes ago  Up 12 minutes           80/tcp   focused_pros
kuriakova
```

```
Nilam# docker container run -itd ubuntu
ce7abce4b6f9f43f44acaf1087fac56287f1aab07f4b5dae67d4c05ff39b8a5d
Nilam# docker container ls -a
CONTAINER ID  IMAGE       COMMAND        CREATED           STATUS                          PORTS          NAM
ES
ce7abce4b6f9  ubuntu      "/bin/bash"    5 seconds ago     Up 4 seconds                                   com
petent_kapitsa
0e760635328a  ubuntu      "/bin/bash"    About a minute ago Exited (0) About a minute ago                 ins
piring_wilbur
```

```
Nilam# docker container attach ce7abce4b6f9
root@ce7abce4b6f9:/# exit
exit
Nilam# 
```

```
Nilam# docker container ls -a
CONTAINER ID  IMAGE       COMMAND        CREATED           STATUS                 PORTS          NAMES
ce7abce4b6f9  ubuntu      "/bin/bash"    About a minute ago Exited (0) 23 seconds ago            compete
nt_kapitsa
0e760635328a  ubuntu      "/bin/bash"    3 minutes ago     Exited (0) 2 minutes ago             inspiri
ng_wilbur
```

```
Nilam# docker container exec 4630b5ad0f8f 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      4630b5ad0f8f
Nilam# 
```

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

```
Nilam# docker container exec 1b5835354961 hostname
1b5835354961
Nilam# docker container exec 1b5835354961 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
172.17.0.4      1b5835354961
Nilam# 
```

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.

```
Nilam# docker container inspect 4630b5ad0f8f | grep Image
        "Image": "sha256:53674603dd32901decce2627dc7a6b41881ac1af098ba2da56f15f620db1be86",
            "Image": "nil_image",
Nilam#
```

```
Nilam# docker container top 4630b5ad0f8f
UID          PID                PPID               C             STIME       TTY         TIME         CMD
root         13927              13907              0             17:14       pts/0       00:00:00     /usr/bin
/python3 /usr/local/bin/supervisord -n -c /etc/supervisor/supervisord.conf -e WARN
root         13963              13927              0             17:14       pts/0       00:00:00     /bin/bas
h /opt/nginx/startnginx.sh
root         13964              13963              0             17:14       pts/0       00:00:00     nginx: m
aster process /usr/sbin/nginx -g daemon off;
www-data     13965              13964              0             17:14       pts/0       00:00:00     nginx: w
orker process
www-data     13966              13964              0             17:14       pts/0       00:00:00     nginx: w
orker process
www-data     13967              13964              0             17:14       pts/0       00:00:00     nginx: w
orker process
www-data     13968              13964              0             17:14       pts/0       00:00:00     nginx: w
orker process
Nilam# 
```

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

```
Nilam# docker container create nginx
cae5b121276dc933457dc7c4d0ffd2472eb25d3ae226761c740d10d2562b708b
```

```
Nilam# docker container ls -a
CONTAINER ID   IMAGE       COMMAND                CREATED          STATUS                   PORTS      NAMES
cae5b121276d   nginx       "/docker-entrypoint…"  5 seconds ago    Created                             jovial_arch
imedes
ce7abce4b6f9   ubuntu      "/bin/bash"            25 minutes ago   Exited (0) 24 minutes ago           competent_k
apitsa
0e760635328a   ubuntu      "/bin/bash"            27 minutes ago   Exited (0) 26 minutes ago           inspiring_w
ilbur
4630b5ad0f8f   nil_image   "/bin/bash -e /init/…" 38 minutes ago   Up 38 minutes            80/tcp     focused_pro
skuriakova
```

```
Nilam# docker container start cae5b121276d
cae5b121276d
Nilam# docker container ls -a
CONTAINER ID   IMAGE       COMMAND                CREATED          STATUS                   PORTS      NAMES
cae5b121276d   nginx       "/docker-entrypoint…"  2 minutes ago    Up 1 second             80/tcp     jovial_arch
imedes
ce7abce4b6f9   ubuntu      "/bin/bash"            27 minutes ago   Exited (0) 26 minutes ago           competent_k
apitsa
0e760635328a   ubuntu      "/bin/bash"            29 minutes ago   Exited (0) 28 minutes ago           inspiring_w
ilbur
4630b5ad0f8f   nil_image   "/bin/bash -e /init/…" 40 minutes ago   Up 40 minutes           80/tcp     focused_pro
skuriakova
```

```
Nilam# docker container logs 4630b5ad0f8f
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
Nilam#
```

```
Nilam# docker container logs cae5b121276d
/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
2024/01/15 12:25:23 [notice] 1#1: using the "epoll" event method
2024/01/15 12:25:23 [notice] 1#1: nginx/1.25.3
2024/01/15 12:25:23 [notice] 1#1: built by gcc 12.2.0 (Debian 12.2.0-14)
2024/01/15 12:25:23 [notice] 1#1: OS: Linux 5.10.16.3-microsoft-standard-WSL2
2024/01/15 12:25:23 [notice] 1#1: getrlimit(RLIMIT_NOFILE): 1048576:1048576
2024/01/15 12:25:23 [notice] 1#1: start worker processes
2024/01/15 12:25:23 [notice] 1#1: start worker process 29
2024/01/15 12:25:23 [notice] 1#1: start worker process 30
2024/01/15 12:25:23 [notice] 1#1: start worker process 31
2024/01/15 12:25:23 [notice] 1#1: start worker process 32
Nilam#
```

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

```
Nilam#  docker system events --since '2024-01-15'
2024-01-15T18:38:30.020765650+05:30 network disconnect d04e9569c0a7729e2eee7a8b2b05dbe69855a4a8b6272b1ddf84edda6bbb2f91 (container=1b583353549615b717
a488c41309d21dcb7d1b62c8f1dcd61851493631b9cc3b7, name=bridge, type=bridge)
2024-01-15T18:38:30.037875624+05:30 container die 1b583353549615b717a488c41309d21dcb7d1b62c8f1dcd61851493631b9cc3b7 (execDuration=10, exitCode=0, ima
ge=httpd, name=my_cloud_httpd_container_04)
2024-01-15T18:38:30.075961980+05:30 network connect d04e9569c0a7729e2eee7a8b2b05dbe69855a4a8b6272b1ddf84edda6bbb2f91 (container=1b583353549615b717a48
8c41309d21dcb7d1b62c8f1dcd61851493631b9cc3b7, name=bridge, type=bridge)
2024-01-15T18:38:30.476391808+05:30 container start 1b583353549615b717a488c41309d21dcb7d1b62c8f1dcd61851493631b9cc3b7 (image=httpd, name=my_cloud_htt
pd_container_04)
2024-01-15T18:38:40.764322109+05:30 network disconnect d04e9569c0a7729e2eee7a8b2b05dbe69855a4a8b6272b1ddf84edda6bbb2f91 (container=1b583353549615b717
a488c41309d21dcb7d1b62c8f1dcd61851493631b9cc3b7, name=bridge, type=bridge)
2024-01-15T18:38:40.783582080+05:30 container die 1b583353549615b717a488c41309d21dcb7d1b62c8f1dcd61851493631b9cc3b7 (execDuration=10, exitCode=0, ima
ge=httpd, name=my_cloud_httpd_container_04)
2024-01-15T18:38:40.810693266+05:30 network connect d04e9569c0a7729e2eee7a8b2b05dbe69855a4a8b6272b1ddf84edda6bbb2f91 (container=1b583353549615b717a48
8c41309d21dcb7d1b62c8f1dcd61851493631b9cc3b7, name=bridge, type=bridge)
2024-01-15T18:38:41.142018436+05:30 container start 1b583353549615b717a488c41309d21dcb7d1b62c8f1dcd61851493631b9cc3b7 (image=httpd, name=my_cloud_htt
pd_container_04)
2024-01-15T18:38:51.408317341+05:30 network disconnect d04e9569c0a7729e2eee7a8b2b05dbe69855a4a8b6272b1ddf84edda6bbb2f91 (container=1b583353549615b717
a488c41309d21dcb7d1b62c8f1dcd61851493631b9cc3b7, name=bridge, type=bridge)
2024-01-15T18:38:51.418246345+05:30 container die 1b583353549615b717a488c41309d21dcb7d1b62c8f1dcd61851493631b9cc3b7 (execDuration=10, exitCode=0, ima
ge=httpd, name=my_cloud_httpd_container_04)
2024-01-15T18:38:51.437669298+05:30 network connect d04e9569c0a7729e2eee7a8b2b05dbe69855a4a8b6272b1ddf84edda6bbb2f91 (container=1b583353549615b717a48
8c41309d21dcb7d1b62c8f1dcd61851493631b9cc3b7, name=bridge, type=bridge)
2024-01-15T18:38:51.774328014+05:30 container start 1b583353549615b717a488c41309d21dcb7d1b62c8f1dcd61851493631b9cc3b7 (image=httpd, name=my_cloud_htt
pd_container_04)
```

last 30 minutes

```
Nilam#  docker system events --since 30m
2024-01-15T18:36:53.396273404+05:30 network disconnect d04e9569c0a7729e2eee7a8b2b05dbe69855a4a8b6272b1ddf84edda6bbb2f91 (container=1b583353549615b717
a488c41309d21dcb7d1b62c8f1dcd61851493631b9cc3b7, name=bridge, type=bridge)
2024-01-15T18:36:53.431355882+05:30 container die 1b583353549615b717a488c41309d21dcb7d1b62c8f1dcd61851493631b9cc3b7 (execDuration=10, exitCode=0, ima
ge=httpd, name=my_cloud_httpd_container_04)
2024-01-15T18:36:53.573309549+05:30 network connect d04e9569c0a7729e2eee7a8b2b05dbe69855a4a8b6272b1ddf84edda6bbb2f91 (container=1b583353549615b717a48
8c41309d21dcb7d1b62c8f1dcd61851493631b9cc3b7, name=bridge, type=bridge)
2024-01-15T18:36:53.913891128+05:30 container start 1b583353549615b717a488c41309d21dcb7d1b62c8f1dcd61851493631b9cc3b7 (image=httpd, name=my_cloud_htt
pd_container_04)
2024-01-15T18:37:04.247918412+05:30 network disconnect d04e9569c0a7729e2eee7a8b2b05dbe69855a4a8b6272b1ddf84edda6bbb2f91 (container=1b583353549615b717
a488c41309d21dcb7d1b62c8f1dcd61851493631b9cc3b7, name=bridge, type=bridge)
2024-01-15T18:37:04.268890188+05:30 container die 1b583353549615b717a488c41309d21dcb7d1b62c8f1dcd61851493631b9cc3b7 (execDuration=10, exitCode=0, ima
ge=httpd, name=my_cloud_httpd_container_04)
2024-01-15T18:37:04.303896655+05:30 network connect d04e9569c0a7729e2eee7a8b2b05dbe69855a4a8b6272b1ddf84edda6bbb2f91 (container=1b583353549615b717a48
8c41309d21dcb7d1b62c8f1dcd61851493631b9cc3b7, name=bridge, type=bridge)
2024-01-15T18:37:04.726228618+05:30 container start 1b583353549615b717a488c41309d21dcb7d1b62c8f1dcd61851493631b9cc3b7 (image=httpd, name=my_cloud_htt
pd_container_04)
2024-01-15T18:37:14.996086585+05:30 network disconnect d04e9569c0a7729e2eee7a8b2b05dbe69855a4a8b6272b1ddf84edda6bbb2f91 (container=1b583353549615b717
a488c41309d21dcb7d1b62c8f1dcd61851493631b9cc3b7, name=bridge, type=bridge)
2024-01-15T18:37:15.002931135+05:30 container die 1b583353549615b717a488c41309d21dcb7d1b62c8f1dcd61851493631b9cc3b7 (execDuration=10, exitCode=0, ima
ge=httpd, name=my_cloud_httpd_container_04)
2024-01-15T18:37:15.020824900+05:30 network connect d04e9569c0a7729e2eee7a8b2b05dbe69855a4a8b6272b1ddf84edda6bbb2f91 (container=1b583353549615b717a48
8c41309d21dcb7d1b62c8f1dcd61851493631b9cc3b7, name=bridge, type=bridge)
2024-01-15T18:37:15.304433050+05:30 container start 1b583353549615b717a488c41309d21dcb7d1b62c8f1dcd61851493631b9cc3b7 (image=httpd, name=my_cloud_htt
```

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.

```
Nilam# docker container run -itd --name ubuntu_01 --hostname cloudethix.com ubuntu
9b2fa84666c57038f8f4a1fab64717c6c79570705c71376b011e774df48c6baa
Nilam#
Nilam# docker container exec ubuntu_01 hostname
cloudethix.com
Nilam# 
```

```
Nilam# docker container ls
CONTAINER ID   IMAGE     COMMAND                  CREATED              STATUS              PORTS      NAMES
9b2fa84666c5   ubuntu    "/bin/bash"              About a minute ago   Up About a minute              ubuntu_01
cae5b121276d   nginx     "/docker-entrypoint.…"   About an hour ago    Up About an hour    80/tcp     jovial_archimed
es
```

```
Nilam# docker container stop ubuntu_01
ubuntu_01
```

```
1b583353549b1   httpd     sleep 10     7 hours ago     Up 3 seconds    80/tcp     my_cloud_httpd_container_04
Nilam# docker container ls -a
CONTAINER ID   IMAGE     COMMAND                  CREATED         STATUS                     PORTS      NAMES9b2fa84666c5   ubuntu    "/bin/bash"
               3 minutes ago   Exited (137) 35 seconds ago             ubuntu_01
cae5b121276d   nginx     "/docker-entrypoint.…"   About an hour ago   Up About an hour       80/tcp     jovial_archimedes
ce7abce4b6f9   ubuntu    "/bin/bash"              2 hours ago     Exited (0) About an hour ago            competent_kapitsa
0e760635328a   ubuntu    "/bin/bash"              2 hours ago     Exited (0) 2 hours ago                  inspiring_wilbur
```

```
Nilam# docker container logs ubuntu_01
root@cloudethix:/# 
Nilam# 
```

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.

```
Nilam# docker container create -it ubuntu
577534551b2e2b1e6f6c911372fc72149d700684fad0daa06719f30262b61b5c
Nilam#
Nilam# docker container ls -a
CONTAINER ID   IMAGE     COMMAND                CREATED          STATUS                      PORTS      NAMES
577534551b2e   ubuntu    "/bin/bash"            11 seconds ago   Created                                youthful_leavitt
9b2fa84666c5   ubuntu    "/bin/bash"            7 minutes ago    Exited (137) 4 minutes ago             ubuntu_01
cae5b121276d   nginx     "/docker-entrypoint.…" About an hour ago Up About an hour           80/tcp     jovial_archimedes
```

```
Nilam# docker container start youthful_leavitt
youthful_leavitt
Nilam# docker container ls -a
CONTAINER ID   IMAGE     COMMAND                CREATED          STATUS                      PORTS      NAMES
577534551b2e   ubuntu    "/bin/bash"            About a minute ago Up 12 seconds                        youthful_leavitt
9b2fa84666c5   ubuntu    "/bin/bash"            8 minutes ago    Exited (137) 5 minutes ago             ubuntu_01
cae5b121276d   nginx     "/docker-entrypoint.…" About an hour ago Up About an hour           80/tcp     jovial_archimedes
ce7abce4b6f9   ubuntu    "/bin/bash"            2 hours ago      Exited (0) 2 hours ago                 competent_kapitsa
```

```
Nilam# docker container rename  youthful_leavitt ubuntu01
Nilam# docker container ls
CONTAINER ID   IMAGE      COMMAND                CREATED          STATUS             PORTS      NAMES
577534551b2e   ubuntu     "/bin/bash"            2 minutes ago    Up About a minute             ubuntu01
cae5b121276d   nginx      "/docker-entrypoint.…" About an hour ago Up About an hour  80/tcp     jovial_archimedes
4630b5ad0f8f   nil_image  "/bin/bash -e /init/…" 2 hours ago      Up 2 hours         80/tcp     focused_proskuriakova
```

```
Nilam# docker container run -itd --name ubuntu02 ubuntu
029b81e34c18c0ca41dac332bbb04702fde6562742d91b43d5c9c2e15c7d8d26
Nilam#
Nilam# docker container ls
CONTAINER ID   IMAGE      COMMAND                CREATED          STATUS             PORTS                                        NAMES
029b81e34c18   ubuntu     "/bin/bash"            4 seconds ago    Up 3 seconds                                                    ubuntu02
577534551b2e   ubuntu     "/bin/bash"            3 minutes ago    Up 2 minutes                                                    ubuntu01
cae5b121276d   nginx      "/docker-entrypoint.…" About an hour ago Up About an hour  80/tcp                                       jovial_archimedes
4630b5ad0f8f   nil_image  "/bin/bash -e /init/…" 2 hours ago      Up 2 hours         80/tcp                                       focused_proskuriakova
8de88053a2f6   nginx      "/docker-entrypoint.…" 6 hours ago      Up 6 hours         0.0.0.0:8282->80/tcp, :::8282->80/tcp        Nilam_nginx
1b5835354961   httpd      "sleep 10"             7 hours ago      Up 1 second        80/tcp                                       my_cloud_httpd_container_04
Nilam#
```

```
Nilam# docker exec ubuntu01 hostname
577534551b2e
Nilam# docker exec ubuntu02 hostname
029b81e34c18
Nilam# docker container ls
CONTAINER ID   IMAGE      COMMAND                CREATED          STATUS                   PORTS                                        NAMES
029b81e34c18   ubuntu     "/bin/bash"            About a minute ago Up About a minute                                                   ubuntu02
577534551b2e   ubuntu     "/bin/bash"            5 minutes ago    Up 4 minutes                                                          ubuntu01
cae5b121276d   nginx      "/docker-entrypoint.…" About an hour ago Up About an hour        80/tcp                                       jovial_archimedes
4630b5ad0f8f   nil_image  "/bin/bash -e /init/…" 2 hours ago      Up 2 hours               80/tcp                                       focused_proskuriakova
8de88053a2f6   nginx      "/docker-entrypoint.…" 6 hours ago      Up 6 hours               0.0.0.0:8282->80/tcp, :::8282->80/tcp        Nilam_nginx
1b5835354961   httpd      "sleep 10"             7 hours ago      Up Less than a second   80/tcp                                       my_cloud_httpd_container_04
Nilam#
```

```
Nilam# docker container pause ubuntu02
ubuntu02
Nilam# docker container ls
CONTAINER ID   IMAGE      COMMAND                CREATED          STATUS               PORTS                                        NAMES
029b81e34c18   ubuntu     "/bin/bash"            3 minutes ago    Up 3 minutes (Paused)                                             ubuntu02
577534551b2e   ubuntu     "/bin/bash"            6 minutes ago    Up 5 minutes                                                      ubuntu01
cae5b121276d   nginx      "/docker-entrypoint.…" About an hour ago Up About an hour    80/tcp                                       jovial_archimedes
4630b5ad0f8f   nil_image  "/bin/bash -e /init/…" 2 hours ago      Up 2 hours           80/tcp                                       focused_proskuriakova
8de88053a2f6   nginx      "/docker-entrypoint.…" 6 hours ago      Up 6 hours           0.0.0.0:8282->80/tcp, :::8282->80/tcp        Nilam_nginx
1b5835354961   httpd      "sleep 10"             7 hours ago      Up 5 seconds         80/tcp                                       my_cloud_httpd_container_04
Nilam#
```

```
Nilam# docker container unpause ubuntu02
ubuntu02
Nilam# docker container ls
CONTAINER ID   IMAGE      COMMAND                CREATED          STATUS             PORTS      NAMES
029b81e34c18   ubuntu     "/bin/bash"            4 minutes ago    Up 4 minutes                  ubuntu02
577534551b2e   ubuntu     "/bin/bash"            7 minutes ago    Up 6 minutes                  ubuntu01
cae5b121276d   nginx      "/docker-entrypoint.…" About an hour ago Up About an hour  80/tcp     jovial_archimedes
```

```
Nilam# docker container stop ubuntu01
ubuntu01
Nilam# docker container ls
CONTAINER ID   IMAGE      COMMAND                 CREATED             STATUS              PORTS                                     NAMES
029b81e34c18   ubuntu     "/bin/bash"             5 minutes ago       Up 5 minutes                                                  ubuntu02
cae5b121276d   nginx      "/docker-entrypoint…"   About an hour ago   Up About an hour    80/tcp                                    jovial_archimedes
4630b5ad0f8f   nil_image  "/bin/bash -e /init/…"  2 hours ago         Up 2 hours          80/tcp                                    focused_proskuriakova
8de88053a2f6   nginx      "/docker-entrypoint…"   6 hours ago         Up 6 hours          0.0.0.0:8282->80/tcp, :::8282->80/tcp     Nilam_nginx
1b5835354961   httpd      "sleep 10"              7 hours ago         Up 5 seconds        80/tcp                                    my_cloud_httpd_container_04
```

```
Nilam# docker container start ubuntu01
ubuntu01
Nilam# docker container ls
CONTAINER ID   IMAGE      COMMAND                 CREATED             STATUS              PORTS         NAMES
029b81e34c18   ubuntu     "/bin/bash"             5 minutes ago       Up 5 minutes                      ubuntu02
577534551b2e   ubuntu     "/bin/bash"             8 minutes ago       Up 1 second                       ubuntu01
cae5b121276d   nginx      "/docker-entrypoint…"   About an hour ago   Up About an hour    80/tcp        jovial_archimedes
```

```
Nilam# docker container restart ubuntu01
ubuntu01
Nilam#
Nilam# docker container ls
CONTAINER ID   IMAGE      COMMAND                 CREATED             STATUS              PORTS         NAMES
029b81e34c18   ubuntu     "/bin/bash"             6 minutes ago       Up 6 minutes                      ubuntu02
577534551b2e   ubuntu     "/bin/bash"             10 minutes ago      Up 18 seconds                     ubuntu01
```

```
Nilam# docker container stats ubuntu01
CONTAINER ID   NAME       CPU %    MEM USAGE / LIMIT      MEM %    NET I/O      BLOCK I/O    PIDS
577534551b2e   ubuntu01   0.00%    764KiB / 3.714GiB      0.02%    726B / 0B    0B / 0B      1
CONTAINER ID   NAME       CPU %    MEM USAGE / LIMIT      MEM %    NET I/O      BLOCK I/O    PIDS
577534551b2e   ubuntu01   0.00%    764KiB / 3.714GiB      0.02%    726B / 0B    0B / 0B      1
CONTAINER ID   NAME       CPU %    MEM USAGE / LIMIT      MEM %    NET I/O      BLOCK I/O    PIDS
577534551b2e   ubuntu01   0.00%    764KiB / 3.714GiB      0.02%    726B / 0B    0B / 0B      1
CONTAINER ID   NAME       CPU %    MEM USAGE / LIMIT      MEM %    NET I/O      BLOCK I/O    PIDS
577534551b2e   ubuntu01   0.00%    764KiB / 3.714GiB      0.02%    726B / 0B    0B / 0B      1
CONTAINER ID   NAME       CPU %    MEM USAGE / LIMIT      MEM %    NET I/O      BLOCK I/O    PIDS
577534551b2e   ubuntu01   0.00%    764KiB / 3.714GiB      0.02%    726B / 0B    0B / 0B      1
CONTAINER ID   NAME       CPU %    MEM USAGE / LIMIT      MEM %    NET I/O      BLOCK I/O    PIDS
577534551b2e   ubuntu01   0.00%    764KiB / 3.714GiB      0.02%    726B / 0B    0B / 0B      1
CONTAINER ID   NAME       CPU %    MEM USAGE / LIMIT      MEM %    NET I/O      BLOCK I/O    PIDS
577534551b2e   ubuntu01   0.00%    764KiB / 3.714GiB      0.02%    796B / 0B    0B / 0B      1
CONTAINER ID   NAME       CPU %    MEM USAGE / LIMIT      MEM %    NET I/O      BLOCK I/O    PIDS
577534551b2e   ubuntu01   0.00%    764KiB / 3.714GiB      0.02%    796B / 0B    0B / 0B      1
CONTAINER ID   NAME       CPU %    MEM USAGE / LIMIT      MEM %    NET I/O      BLOCK I/O    PIDS
577534551b2e   ubuntu01   0.00%    764KiB / 3.714GiB      0.02%    796B / 0B    0B / 0B      1
CONTAINER ID   NAME       CPU %    MEM USAGE / LIMIT      MEM %    NET I/O      BLOCK I/O    PIDS
577534551b2e   ubuntu01   0.00%    764KiB / 3.714GiB      0.02%    796B / 0B    0B / 0B      1
CONTAINER ID   NAME       CPU %    MEM USAGE / LIMIT      MEM %    NET I/O      BLOCK I/O    PIDS
577534551b2e   ubuntu01   0.00%    764KiB / 3.714GiB      0.02%    796B / 0B    0B / 0B      1
CONTAINER ID   NAME       CPU %    MEM USAGE / LIMIT      MEM %    NET I/O      BLOCK I/O    PIDS
577534551b2e   ubuntu01   0.00%    764KiB / 3.714GiB      0.02%    796B / 0B    0B / 0B      1
CONTAINER ID   NAME       CPU %    MEM USAGE / LIMIT      MEM %    NET I/O      BLOCK I/O    PIDS
```

```
Nilam# docker container stats ubuntu02
CONTAINER ID   NAME       CPU %    MEM USAGE / LIMIT      MEM %    NET I/O      BLOCK I/O    PIDS
029b81e34c18   ubuntu02   0.00%    816KiB / 3.714GiB      0.02%    936B / 0B    0B / 0B      1
CONTAINER ID   NAME       CPU %    MEM USAGE / LIMIT      MEM %    NET I/O      BLOCK I/O    PIDS
029b81e34c18   ubuntu02   0.00%    816KiB / 3.714GiB      0.02%    936B / 0B    0B / 0B      1
CONTAINER ID   NAME       CPU %    MEM USAGE / LIMIT      MEM %    NET I/O      BLOCK I/O    PIDS
029b81e34c18   ubuntu02   0.00%    816KiB / 3.714GiB      0.02%    936B / 0B    0B / 0B      1
```

```
Nilam# docker  system events --since 30m
2024-01-15T19:06:31.307244135+05:30 container die 1b58353549615b717a488c41309d21dcb7d1b62c8f1dcd61851493631b9cc3b7 (execDuration=10, exitCode=0, image=httpd, name=my_
cloud_httpd_container_04)
2024-01-15T19:06:31.322086392+05:30 network connect d04e9569c0a7729e2eee7a8b2b05dbe69855a4a8b6272b1ddf84edda6bbb2f91 (container=1b58353549615b717a488c41309d21dcb7d1b6
2c8f1dcd61851493631b9cc3b7, name=bridge, type=bridge)
2024-01-15T19:06:31.650796797+05:30 container start 1b58353549615b717a488c41309d21dcb7d1b62c8f1dcd61851493631b9cc3b7 (image=httpd, name=my_cloud_httpd_container_04)
2024-01-15T19:06:41.949012413+05:30 network disconnect d04e9569c0a7729e2eee7a8b2b05dbe69855a4a8b6272b1ddf84edda6bbb2f91 (container=1b58353549615b717a488c41309d21dcb7d
1b62c8f1dcd61851493631b9cc3b7, name=bridge, type=bridge)
2024-01-15T19:06:41.959307007+05:30 container die 1b58353549615b717a488c41309d21dcb7d1b62c8f1dcd61851493631b9cc3b7 (execDuration=10, exitCode=0, image=httpd, name=my_
cloud_httpd_container_04)
2024-01-15T19:06:41.982797289+05:30 network connect d04e9569c0a7729e2eee7a8b2b05dbe69855a4a8b6272b1ddf84edda6bbb2f91 (container=1b58353549615b717a488c41309d21dcb7d1b6
2c8f1dcd61851493631b9cc3b7, name=bridge, type=bridge)
2024-01-15T19:06:42.304778940+05:30 container start 1b58353549615b717a488c41309d21dcb7d1b62c8f1dcd61851493631b9cc3b7 (image=httpd, name=my_cloud_httpd_container_04)
2024-01-15T19:06:42.326938601+05:30 container exec_create: . hostname 577534551b2e2b1e6f6c911372fc72149d700684fad0daa06719f30262b61b5c (execID=59d97bc881d7cd4b395b028
b4e456d56304e5bd133a9e2c60064e5e7cbd7eabc, image=ubuntu, name=ubuntu01, org.opencontainers.image.ref.name=ubuntu, org.opencontainers.image.version=22.04)
2024-01-15T19:06:42.327782161+05:30 container exec_start: . hostname 577534551b2e2b1e6f6c911372fc72149d700684fad0daa06719f30262b61b5c (execID=59d97bc881d7cd4b395b028b
4e456d56304e5bd133a9e2c60064e5e7cbd7eabc, image=ubuntu, name=ubuntu01, org.opencontainers.image.ref.name=ubuntu, org.opencontainers.image.version=22.04)
2024-01-15T19:06:52.589703423+05:30 network disconnect d04e9569c0a7729e2eee7a8b2b05dbe69855a4a8b6272b1ddf84edda6bbb2f91 (container=1b58353549615b717a488c41309d21dcb7d
1b62c8f1dcd61851493631b9cc3b7, name=bridge, type=bridge)
2024-01-15T19:06:52.640341249+05:30 container die 1b58353549615b717a488c41309d21dcb7d1b62c8f1dcd61851493631b9cc3b7 (execDuration=10, exitCode=0, image=httpd, name=my_
cloud_httpd_container_04)
2024-01-15T19:06:52.677247139+05:30 network connect d04e9569c0a7729e2eee7a8b2b05dbe69855a4a8b6272b1ddf84edda6bbb2f91 (container=1b58353549615b717a488c41309d21dcb7d1b6
2c8f1dcd61851493631b9cc3b7, name=bridge, type=bridge)
```

```
Nilam# docker container kill ubuntu01 ubuntu02
ubuntu01
ubuntu02
Nilam#
Nilam# docker container rm ubuntu01 ubuntu02
ubuntu01
ubuntu02
```

```
Nilam# docker container ls -a
CONTAINER ID   IMAGE       COMMAND                  CREATED          STATUS                     PORTS                                        NAMES
cae5b121276d   nginx       "/docker-entrypoint.…"   About an hour ago  Up About an hour         80/tcp                                       jovial_archimedes
ce7abce4b6f9   ubuntu      "/bin/bash"              2 hours ago        Exited (0) 2 hours ago                                                  competent_kapitsa
0e760635328a   ubuntu      "/bin/bash"              2 hours ago        Exited (0) 2 hours ago                                                  inspiring_wilbur
4630b5ad0f8f   nil_image   "/bin/bash -e /init/…"   2 hours ago        Up 2 hours               80/tcp                                       focused_proskuriakova
8de88053a2f6   nginx       "/docker-entrypoint.…"   7 hours ago        Up 7 hours               0.0.0.0:8282->80/tcp, :::8282->80/tcp        Nilam_nginx
1b5835354961   httpd       "sleep 10"               7 hours ago        Up 1 second              80/tcp                                       my_cloud_httpd_container_04
bf2917eab250   httpd       "httpd-foreground"       7 hours ago        Exited (0) 7 hours ago                                                  my_cloud_httpd_container
5eac5afd7918   ubuntu      "/bin/bash"              27 hours ago       Exited (0) 27 hours ago                                                 condescending_sammet
Nilam#
```

```
Nilam# ls
0e760635328a3eac88a4fc1887e10056df8583cc4f9e002f2cc80b7d1aaed1c7   bf2917eab2500acfef3bc4f4fbd515152c92a80be2df59a3bb09e05077fbc261
1b58353549615b717a488c41309d21dcb7d1b62c8f1dcd61851493631b9cc3b7   cae5b121276dc933457dc7c4d0ffd2472eb25d3ae226761c740d10d2562b708b
4630b5ad0f8ff19c8c97a6aabffa3fd1aae6c8e00bb48d70f5b35ab3fc0f00d5   ce7abce4b6f9f43f44acaf1087fac56287f1aab07f4b5dae67d4c05ff39b8a5d
5eac5afd79183c767eb262369718bb50171002c7a1ecb03fcd5934570d0695df   ubuntu-nginx
8de88053a2f663708a759ba1e701d97f6778f5329e67d350acfb1112c0c44242
Nilam#
```

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