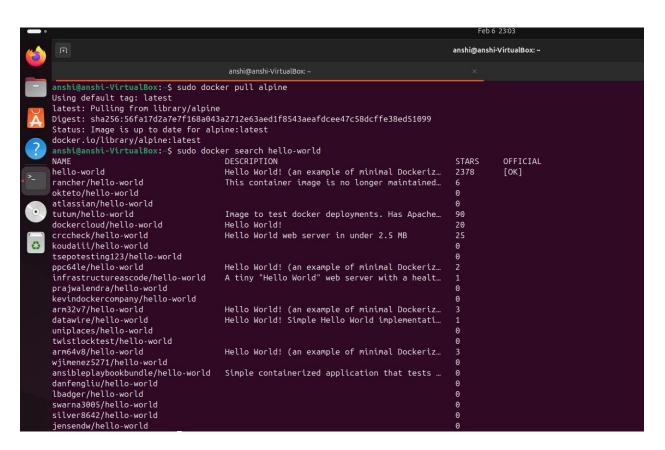
## **EXPERIMENT 3**

## **PART A**

- 1. Search the images hello-world and centos
- 2. Pull the searched images from the hub
- 3. List all the images from the docker host
- 4. Get the detailed information about the docker images
- 5. Get the history of the docker images
- 6. Save or backup docker images

## **PART B**

- 1. Run the container centos
- 2. List all the containers and find the top process in the container
- 3. Stop the container
- 4. Remove the container



| anshi@anshi-VirtualBox:~\$ sudo |  |       |          |
|---------------------------------|--|-------|----------|
| NAME                            | DESCRIPTION                                  | STARS | OFFICIAL |
| centos                          | DEPRECATED; The official build of CentOS.    | 7764  | [OK]     |
| centos/postgresql-10-centos7    | PostgreSQL is an advanced Object-Relational  | 21    |          |
| corpusops/centos                | centos corpusops baseimage                   | 0     |          |
| centos/httpd-24-centos8         |  | 3     |          |
| centos/redis-5-centos8          |  | 0     |          |
| centos/postgresql-96-centos7    | PostgreSQL is an advanced Object-Relational  | 45    |          |
| centos/postgresql-10-centos8    |  | Θ     |          |
| centos/systemd                  | systemd enabled base container.              | 115   |          |
| centos/mariadb-102-centos7      | MariaDB 10.2 SQL database server             | 6     |          |
| centos/mysql-56-centos7         | MySQL 5.6 SQL database server                | 23    |          |
| centos/ruby-25-centos7          | Platform for building and running Ruby 2.5 a | 3     |          |
| centos/mariadb-103-centos8      |  | 2     |          |
| centos/mysql-80-centos8         |  | Θ     |          |
| centos/mysql-57-centos7         | MySQL 5.7 SQL database server                | 95    |          |
| centos/postgresql-12-centos8    |  | 0     |          |
| centos/mongodb-36-centos7       | MongoDB NoSQL database server                | 12    |          |
| centos/redis-5-centos7          | Redis in-memory data structure store, used a | Θ     |          |
| centos/nginx-112-centos7        | Platform for running nginx 1.12 or building  | 16    |          |
| centos/mariadb-101-centos7      | MariaDB 10.1 SQL database server             | 13    |          |
| centos/httpd-24-centos7         | Platform for running Apache httpd 2.4 or bui | 46    |          |
| centos/postgresql-12-centos7    | PostgreSQL is an advanced Object-Relational  | 5     |          |
| centos/redis-32-centos7         | Redis in-memory data structure store, used a | 6     |          |
| centos/postgresql-94-centos7    | PostgreSQL is an advanced Object-Relational  | 16    |          |
| centos/nginx-116-centos7        | Platform for running nginx 1.16 or building  | 3     |          |
| centos/php-56-centos7           | Platform for building and running PHP 5.6 ap | 34    |          |

```
anshi@anshi-VirtualBox:~$ sudo docker images
REPOSITORY
               TAG
                         IMAGE ID
                                         CREATED
                                                        SIZE
hello-world
                         74cc54e27dc4
              latest
                                         2 weeks ago
                                                        10.1kB
alpine
               latest
                         b0c9d60fc5e3
                                                        7.83MB
                                         4 weeks ago
```

```
anshi@anshi-VirtualBox:~$ sudo docker history hello-world

IMAGE CREATED CREATED BY SIZE COMMENT

74cc54e27dc4 2 weeks ago CMD ["/hello"] 0B buildkit.dockerfile.v0

<missing> 2 weeks ago COPY hello / # buildkit 10.1kB buildkit.dockerfile.v0
```

```
anshi@anshi-VirtualBox:~$ sudo docker save -o hello-world.tar hello-world
anshi@anshi-VirtualBox:~$ sudo docker load -i hello-world.tar
Loaded image: hello-world:latest
anshi@anshi-VirtualBox:~$
```

```
ishi@anshi-VirtualBox:~$ sudo docker ps
CONTAINER ID IMAGE
                            COMMAND
                                                           STATUS
                                                                                   PORTS
                                                                                             NAMES
                                          55 seconds ago
                                                           Up 54 seconds
6223657d041c
                             "/bin/bash"
                                                                                             mycentos
              centos
                             "/bin/sh"
b3c11d827df7
              alpine
                                          6 days ago
                                                           Exited (0) 6 days ago
                                                                                             trusting_chaum
                            "/hello"
dcf2d07dbda4
              hello-world
                                          6 days ago
                                                           Exited (0) 6 days ago
                                                                                             silly_kilby
                                                           Exited (0) 7 days ago
                                                                                             youthful_hodgkin
6475b2dc9e4a
              hello-world
                             "/hello"
                                          7 days ago
anshi@anshi-VirtualBox:~$
```

```
anshi@anshi-VirtualBox:~$ sudo docker stop mycentos
mycentos
anshi@anshi-VirtualBox:~$ sudo docker rm mycentos
mycentos
anshi@anshi-VirtualBox:~$ sudo docker rm -f mycentos
Error response from daemon: No such container: mycentos
anshi@anshi-VirtualBox:~$
```