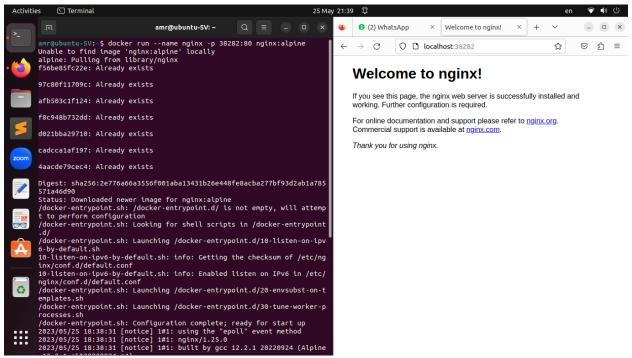
## Docker Lab (2)

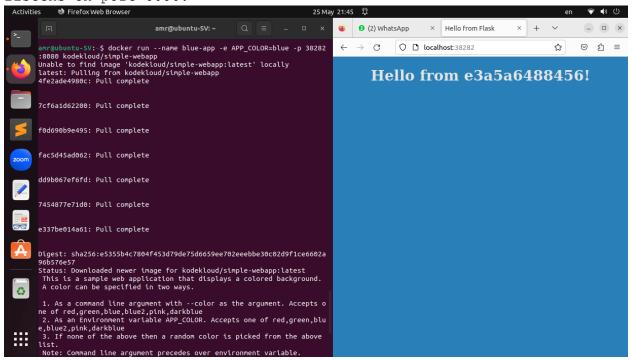
1-Run an instance of nginx:alpine with a name nginx and map port 80 on the container to 38282 on the host.



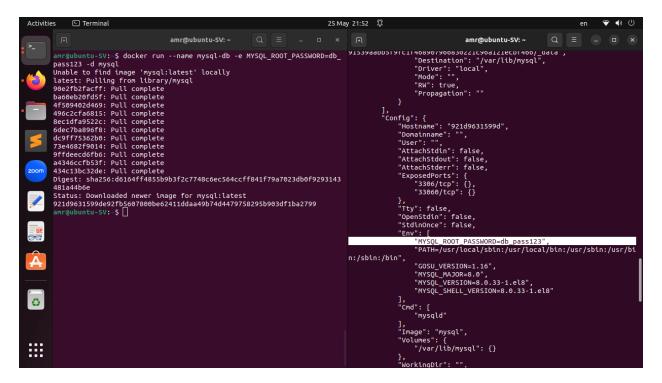
2- create ubuntu image and check the size of it

```
amr@ubuntu-SV:~$ docker run ubuntu
amr@ubuntu-SV:~$ docker images
REPOSITORY
                   TAG
                              IMAGE ID
                                              CREATED
                                                              SIZE
nginx
                   alpine
                              fe7edaf8a8dc
                                              20 hours ago
                                                              41.4MB
                                              25 hours ago
pern
                   latest
                              b7947f004b24
                                                              187MB
                              a6444e120fb7
                                              8 days ago
<none>
                   <none>
                                                              145MB
                              b3f1c14ca31a
                                             8 days ago
                                                              145MB
<none>
                   <none>
                              f7c528dc262e
                                              8 days ago
<none>
                   <none>
                                                              142MB
                              60dee4ac6715
                                              8 days ago
                                                              142MB
<none>
                   <none>
hello-world
                   latest
                              9c7a54a9a43c
                                              3 weeks ago
                                                              13.3kB
jenkins/jenkins
                              976459dc87b0
                                              3 weeks ago
                                                              472MB
                   lts
ubuntu
                              3b418d7b466a
                                              4 weeks ago
                                                              77.8MB
                   latest
amr@ubuntu_SV.~$
```

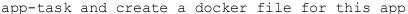
3- Run a container named blue-app using image kodekloud/simplewebapp and set the environment variable APP\_COLOR to blue. Make the application available on port 38282 on the host. The application listens on port 8080.

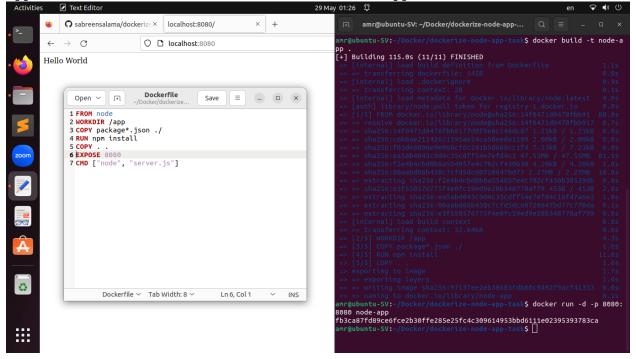


4- Deploy a mysql database using the mysql image and name it mysqldb Set the database password to use db\_pass123 then inspect it to check the value



5- pull the code from https://github.com/sabreensalama/dockerizenode-





6- Create a volume called mysql\_data, Run a mysql container again, but this time map a volume to the container so that the data stored by the container is stored at /opt/data on the host. Use the same name: mysql-db and same password: db\_pass123 as before. Mysql stores data at /var/lib/mysql inside the container.

```
^Camr@ubuntu-SV:-/Docker/simple-flask-app$ docker run --name mysql-db -e MYSQL_ROOT_PASSWORD=db_pass123 mysql -v /opt/data/mysql_data:/var/lib mysql mysql
2023-05-25 19:57:32+00:00 [Note] [Entrypoint]: Entrypoint script for MySQL Server 8.0.33-1.el8 started.
2023-05-25 19:57:33+00:00 [Note] [Entrypoint]: Switching to dedicated user 'mysql'
2023-05-25 19:57:33+00:00 [Note] [Entrypoint]: Entrypoint script for MySQL Server 8.0.33-1.el8 started.
2023-05-25 19:57:33+00:00 [Note] [Entrypoint]: Initializing database files
2023-05-2519:57:33.100332Z 0 [Warning] [MY-011068] [Server] The syntax '--skip-host-cache' is deprecated and will be removed in a future rele
ase. Please use SET GLOBAL host cache_size=0 instead.
2023-05-25719:57:33.251409Z 0 [ERROR] [MY-010083] [Server] --verbose is for use with --help; did you mean --log-error-verbosity?
2023-05-25719:57:33.251617Z 0 [System] [MY-013169] [Server] /usr/sbin/mysqld (mysqld 8.0.33) initializing of server in progress as process 80
2023-05-25719:57:33.310801Z 1 [System] [MY-013576] [InnoDB] InnoDB initialization has started.
2023-05-25719:57:44.059360Z 1 [System] [MY-013577] [InnoDB] InnoDB initialization has ended.
```