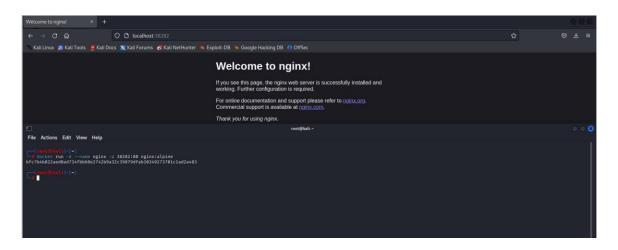
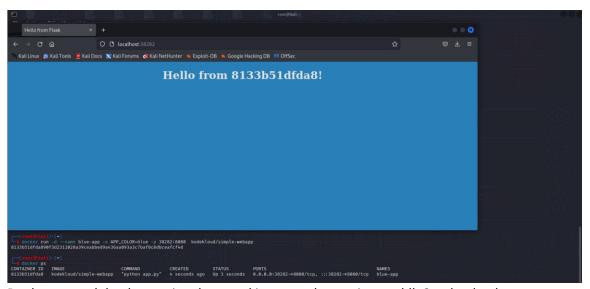
1- Run an instance of nginx:alpine with a name nginx and map port 8080 on the container to 38282 on the host.



2- create ubuntu image and check the size of it

```
(root@ kala)-[~]
# docker pull ubuntu
Using default tag: latest
latest: Pulling from library/ubuntu
dbf6a9befcde: Already exists
Digest: sha256:dfd64a3b4296d8c9b62aa3309984f8620b98d87e47492599ee20739e8eb54fbf
Status: Downloaded newer image for ubuntu:latest
docker io/library/ubuntu:latest
docker.io/library/ubuntu:latest
 docker images
REPOSITORY
                                                               IMAGE ID
                                                                                     CREATED
                                               alpine
                                                               fe7edaf8a8dc
                                                                                     5 days ago
                                                                                                          41.4MB
                                                               f9c14fe76d50
                                                                                     5 days ago
                                                                                                          143MB
python
                                                               0a6cd0db41a4
                                                                                                          920MB
                                                                                     7 days ago
python
                                                               0a6cd0db41a4
                                                                                     7 days ago
                                                                                                          920MB
                                                                                     3 weeks ago
4 weeks ago
<none>
                                                <none>
                                                               448a08f1d2f9
                                                                                                          142MB
ubuntu
                                                               3b418d7b466a
                                                                                                          77.8MB
mmumshad/simple-webapp-color
                                                              96bb69733441
                                                                                                          932MB
                                               latest
                                                                                     4 years ago
```

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

```
"Env": [
    "MYSQL_ROOT_PASSWORD=db_pass123",
    "PATH=/usr/local/sbin:/usr/local/bin:/usr/sbin:/usr/bin:/sbin:/bin",
    "GOSU_VERSION=1.16",
    "MYSQL_MAJOR=8.0",
    "MYSQL_VERSION=8.0.33-1.el8",
    "MYSQL_SHELL_VERSION=8.0.33-1.el8"
],
```

5- pull the code from https://github.com/sabreensalama/dockerizenode-app-task and create a docker file for this node app

```
clone https://github.com/sabrensalama/dockerize-node-app-task.git
into 'dockerize-node-app-task'...
Into 'dockerize-node-app-task'...
Commercial (prince in the commercial of 
                                        )-[/home/kali/Desktop]
     File Actions Edit View Help
                                      oot®kali)-[/home/kali/Desktop/dockerize-node-app-task]
    (root@kali)-[/home/ka
# cat requirements.txt
  express
  (root@kali)-[/home/kali/Desktop/dockerize-node-app-task]
    cat Dockerfile
 From node:14
WORKDIR / app
 COPY package*.json ./
 RUN npm install
 COPY . .
 EXPOSE 3000
 CMD ["node", "app.js"]
   (root® kali)-[/home/kali/Desktop/dockerize-node-app-task]
```

```
Senting Form the Control of the periodic of t
```

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.

root@ kali)=[~]
docker run -d -- name mysql-db -v Mysql_data:/var/lib/mysql -e MYSQL_ROOT_PASSWORD=db_pass123 mysql
7d4193ed5f04d162894b86ae3ed981dba6ba1d94109f60e2e24541c943dc9945