<u>Task 1</u>

step 1

```
III uiis task you are going to deploy iyode Application using docker and docker compose, in
                                        lycan@Lycan: ~
                                                                      Q
                                                                                             iners
                                                                                             me
 e=mongo&tag=latest": dial unix /var/run/docker.sock: connect: permission denied
 lycan@Lycan:~$ sudo docker pull mongo
 [sudo] password for lycan:
 Using default tag: latest
                                                                                              ıild
 latest: Pulling from library/mongo
 Get "https://registry-1.docker.io/v2/library/mongo/manifests/sha256:e0b1614551474ee2f3c
 3ef7c9706b5e19f2107aa36b73c910522af9fa8eb756e": net/http: TLS handshake timeout
                                                                                              our
 lycan@Lycan:~$ sudo docker pull mongo
                                                                                             ests
 Using default tag: latest
 latest: Pulling from library/mongo
                                                                                             is
 fb0b3276a519: Downloading 19.17MB/28.57MB
                                                                                             nina
 c81bcd64a2d2: Download complete
 fb0b3276a519: Downloading 20.93MB/28.57MB
                                                                                             les
 06d1770a2c11: Download complete
 a03d917eab2f: Download complete
                                                                      fb0b3276a519: Downloa
ding 19.46MB/28.57MB
d0226311fde3: Download complete
 cf22b9bccca1: Download complete
 5a4955b612fd: Downloading 4.307MB/193.6MB
 5a4955b612fd: Downloading 9.714MB/193.6MB
                                                                       Q
                                         lycan@Lycan: ~
5a4955b612fd: Pull complete
bc8341d9c8d5: Pull complete
                                                                                               ners
Digest: sha256:2ca8fb22c9522b49fd1f5490dee3e7026a4331b9f904d5acf10a9638c1d1539d
                                                                                               ne
Status: Downloaded newer image for mongo:latest
lycan@Lycan:~$ sudo pull mongo-express
                                                                                               ild
lycan@Lycan:~$ sudo docker pull mongo-express
```

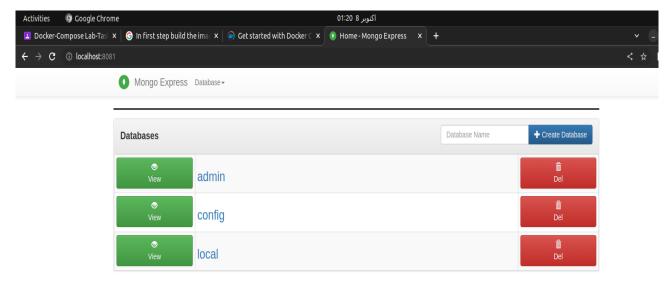
```
docker.io/library/mongo:latest
sudo: pull: command not found
Using default tag: latest
latest: Pulling from library/mongo-express
                                                                                           ur
6a428f9f83b0: Pull complete
                                                                                           ests
f2b1fb32259e: Pull complete
40888f2a0a1f: Pull complete
4e3cc9ce09be: Pull complete
eaa1898f3899: Pull complete
                                                                                           iinal
ab4078090382: Pull complete
                                                                                           es
ae780a42c79e: Pull complete
e60224d64a04: Pull complete
Digest: sha256:2a25aafdf23296823b06bc9a0a2af2656971262041b8dbf11b40444804fdc104
Status: Downloaded newer image for mongo-express:latest
docker.io/library/mongo-express:latest
lycan@Lycan:~$
```

```
9559be35cdea
lycan@Lycan:~$ sudo docker ps -a
CONTAINER ID
               IMAGE
                                COMMAND
                                                           CREATED
                                                                            STATUS
       PORTS
                    NAMES
                                "tini -- /docker-ent..."
9559be35cdea
               mongo-express
                                                          2 minutes ago
                                                                           Up 3 sec
       8081/tcp
                    elegant_brown
450163000f7b
               mongo
                                "docker-entrypoint.s..."
                                                          8 minutes ago
                                                                           Up 3 min
       27017/tcp
                   mongo
```

```
F
                                 lycan@Lycan: ~
lycan@Lycan:~$ sudo docker network ls
NETWORK ID
              NAME
                              DRIVER
                                       SCOPE
80df79d474be
              bridge
                              bridge
                                       local
f04f99316587
                                       local
              host
                              host
d56f3998960b mongo-network
                             bridge
                                      local
66982b902f28
                              null
                                      local
              none
lycan@Lycan:~$ S
```

```
lycan@Lycan:~$ sudo docker run -d \
> -p 8081:8081 \
-e ME_CONFIG_MONGODB_ADMINUSERNAME=admin \
-e ME_CONFIG_MONGODB_ADMINPASSWORD=password \
-e ME_CONFIG_MONGODB_SERVER=mongodb \
--net mongo-network \
--name mongo-express \
mongo-express
ae2a8652854a0b07a4f67a96e817c5192815403b8b1682f4f874048eb40384c3
```

```
Lycan@Lycan:~$ sudo docker run -d \
> -p 8081:8081 \
-e ME_CONFIG_MONGODB_ADMINUSERNAME=admin \
-e ME_CONFIG_MONGODB_ADMINPASSWORD=password \
-e ME_CONFIG_MONGODB_SERVER=mongodb \
-net mongo-network \
-name mongo-express \
mongo-express
ae2a8652854a0b07a4f67a96e817c5192815403b8b1682f4f874048eb40384c3
```



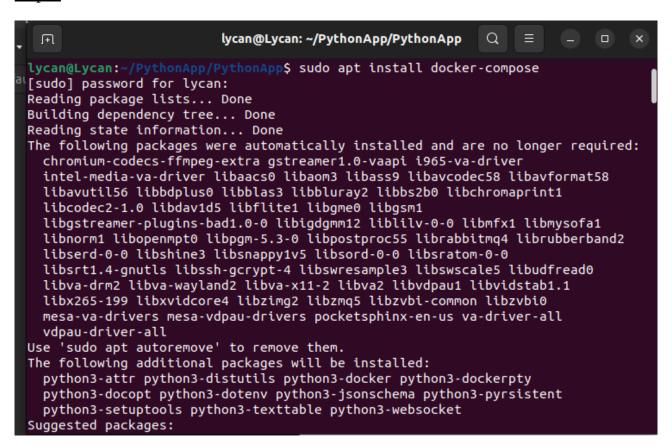
Server Status

Turn on admin in config.js to view server stats!

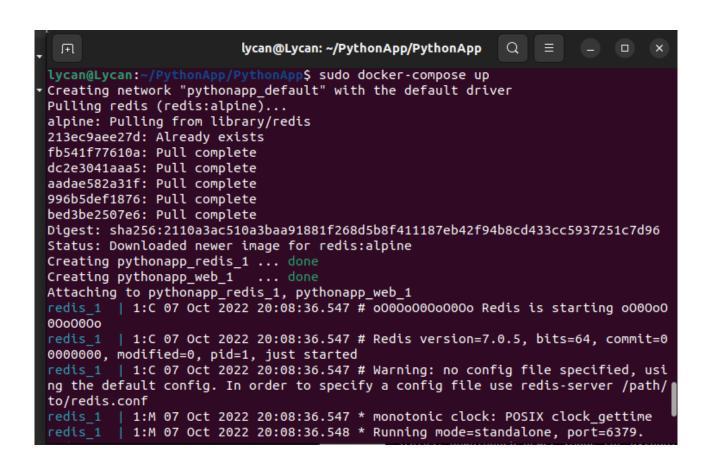


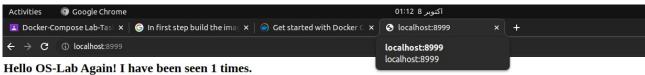
<u>Task 2</u>

Step 1

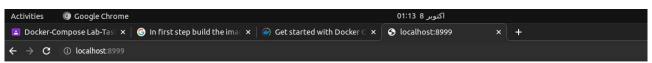


```
lycan@Lycan: ~/PythonApp/PythonApp
                                                            Q
                                                                 ≡
 lycan@Lycan:~/PythonApp/PythonApp$ sudo docker-compose build
alredis uses an image, skipping
 Building web
 Sending build context to Docker daemon 5.632kB
 Step 1/9 : FROM python:3.7-alpine
 3.7-alpine: Pulling from library/python
 213ec9aee27d: Pull complete
 47858aee13bf: Pull complete
 113ca94c5cd3: Pull complete
 ffab80633611: Pull complete
 3f2330d53d99: Pull complete
 Digest: sha256:5d50c235598f857e699019710ea765fd2e13d5472b03e6be427761f074ed3837
 Status: Downloaded newer image for python:3.7-alpine
  ---> 529e7df2a3e0
 Step 2/9 : WORKDIR /code
 ---> Running in 40f5886766ff
 Removing intermediate container 40f5886766ff
 ---> 0a65fadf269a
 Step 3/9 : ENV FLASK APP app.py
  ---> Running in a8eaf50b2194
 Removing intermediate container a8eaf50b2194
 ---> b92b517fe333
 Step 4/9 : ENV FLASK_RUN_HOST 0.0.0.0
 ---> Running in c02bbd2d5135
```





Step 2



Hello OS-Lab Again! I have been seen 10 times.

ONTAINER ID	IMAGE	nApp\$ sudo docker ps -a COMMAND	CREATED	STATUS	PORTS	NAMES
	redis:alpine	"docker-entrypoint.s"	7 minutes ago	Exited (0) 12 seconds ago		pythonapp_redis
7a48a3e9d1a	pythonapp_web	"flask run"	7 minutes ago	Exited (137) 2 seconds ago		pythonapp_web_1
e2a8652854a	mongo-express	"tini /docker-ent"	2 hours ago	Up 2 hours	0.0.0.0:8081->8081/tcp, :::8081->8081/tcp	mongo-express
d017c1938ec	mongo	"docker-entrypoint.s"	2 hours ago	Up 2 hours	0.0.0.0:27017->27017/tcp, :::27017->27017/tcp	mongodb
559be35cdea	mongo-express	"tini /docker-ent"	2 hours ago	Exited (0) 2 hours ago		elegant_brown
50163000f7b	mongo	"docker-entrypoint.s"	2 hours ago	Up 2 hours	27017/tcp	mongo