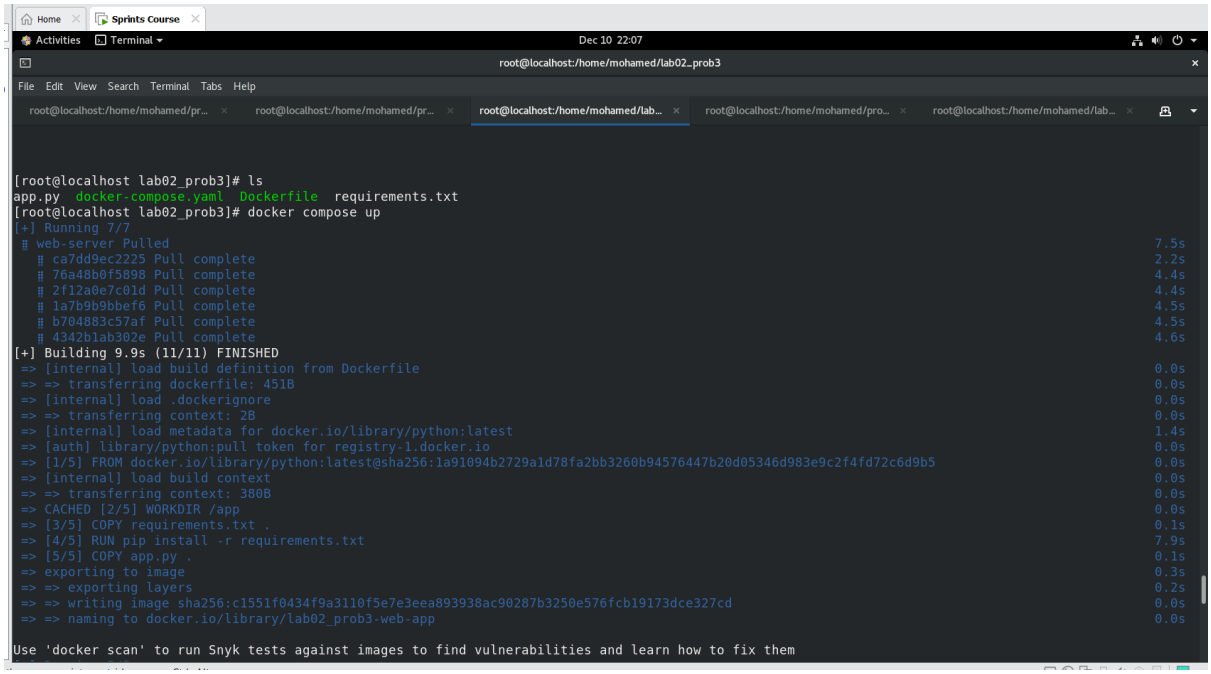
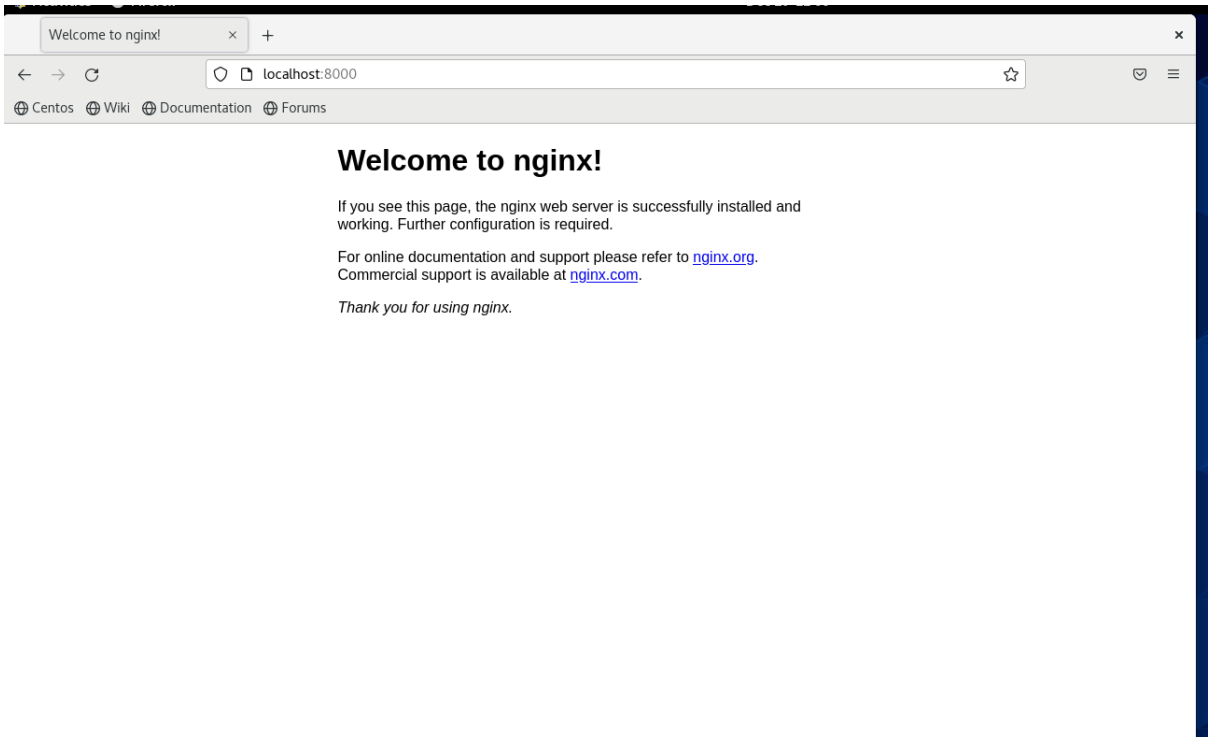
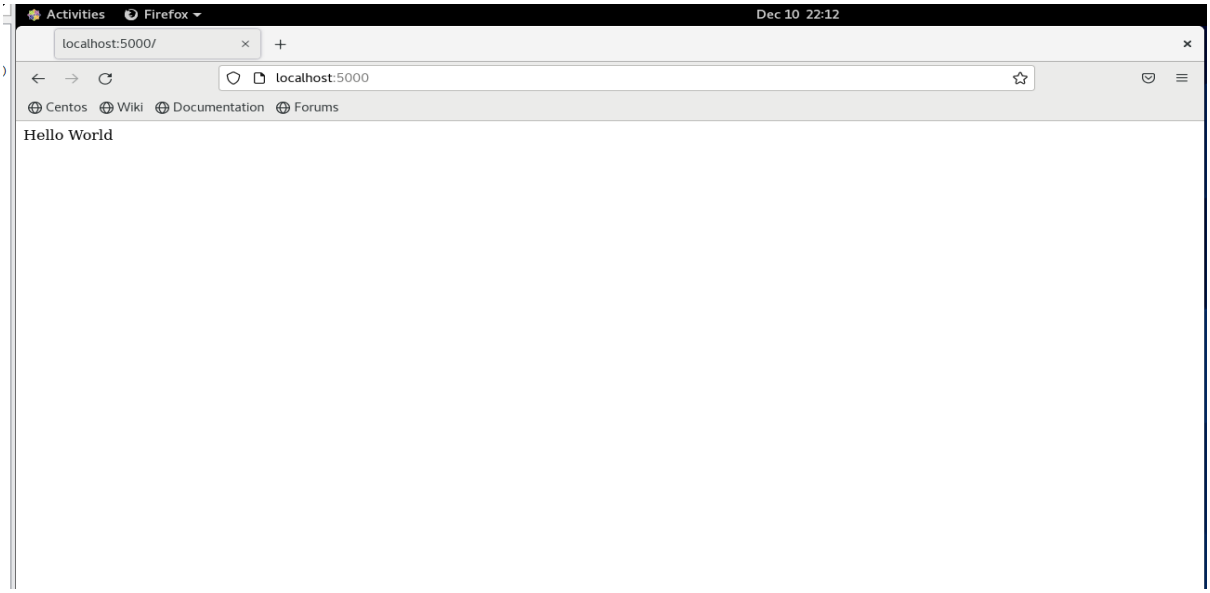
## Problem 3:

- Create a docker compose to setup web container (flask app from lab1 if not exist) and nginx, mysql, the app container depends on nginx and mysql.
- Add volume for mysqldb.

## Solution:


Home
Sprints Course
Activities
Terminal
Dec 10 22:07
root@localhost:/home/mohamed/lab02_prob3
File Edit View Search Terminal Tabs Help
root@localhost:/home/mohamed/pr...
root@localhost:/home/mohamed/pr...
root@localhost:/home/mohamed/lab...
root@localhost:/home/mohamed/pro...
root@localhost:/home/mohamed/lab...
[root@localhost lab02_prob3]# ls
app.py docker-compose.yaml Dockerfile requirements.txt
[root@localhost lab02_prob3]# docker compose up
[+] Running 7/7
⠿ web-server Pulled 7.5s
⠿ ca7dd9ec2225 Pull complete 2.2s
⠿ 76a48b0f5898 Pull complete 4.4s
⠿ 2f12a0e7c01d Pull complete 4.4s
⠿ 1a7b9b9bbef6 Pull complete 4.5s
⠿ b704883c57af Pull complete 4.5s
⠿ 4342b1ab302e Pull complete 4.6s
[+] Building 9.9s (11/11) FINISHED
=> [internal] load build definition from Dockerfile 0.0s
=> => transferring dockerfile: 451B 0.0s
=> [internal] load .dockerignore 0.0s
=> => transferring context: 2B 0.0s
=> [internal] load metadata for docker.io/library/python:latest 1.4s
=> [auth] library/python:pull token for registry-1.docker.io 0.0s
=> [1/5] FROM docker.io/library/python:latest@sha256:1a91094b2729a1d78fa2bb3260b94576447b20d05346d983e9c2f4fd72c6d9b5 0.0s
=> [internal] load build context 0.0s
=> => transferring context: 380B 0.0s
=> CACHED [2/5] WORKDIR /app 0.0s
=> [3/5] COPY requirements.txt . 0.1s
=> [4/5] RUN pip install -r requirements.txt 7.9s
=> [5/5] COPY app.py . 0.1s
=> exporting to image 0.3s
=> => exporting layers 0.2s
=> => writing image sha256:c1551f0434f9a3110f5e7e3eea893938ac90287b3250e576fcb19173dce327cd 0.0s
=> => naming to docker.io/library/lab02_prob3-web-app 0.0s
Use 'docker scan' to run Snyk tests against images to find vulnerabilities and learn how to fix them


Welcome to nginx!
localhost:8000
Centos
Wiki
Documentation
Forums
Welcome to nginx!
If you see this page, the nginx web server is successfully installed and working. Further configuration is required.
For online documentation and support please refer to nginx.org.
Commercial support is available at nginx.com.
Thank you for using nginx.


Activities
Firefox
Dec 10 22:12
localhost:5000/
localhost:5000
Centos
Wiki
Documentation
Forums
Hello World