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root@Kali: ~
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root@Kali: ~ 119x27

(root@Kali)-[~]
# docker pull 0007000/cyberifi_ctf
Using default tag: latest
latest: Pulling from 0007000/cyberifi_ctf
Digest: sha256:0810130bb7fa14fe1da578b52f394ff4ac7c0552f43d741be657297e7aa318ee
Status: Image is up to date for 0007000/cyberifi_ctf:latest
docker.io/0007000/cyberifi_ctf:latest

(root@Kali)-[~]
# docker run -p 8000:8000 -it 0007000/cyberifi_ctf
INFO [alembic.runtime.migration] Context impl SQLiteImpl.
INFO [alembic.runtime.migration] Will assume non-transactional DDL.
* Loaded module, <module 'CTFd.plugins.challenges' from '/opt/CTFd/CTFd/plugins/challenges/_init_.py'>
* Loaded module, <module 'CTFd.plugins.dynamic_challenges' from '/opt/CTFd/CTFd/plugins/dynamic_challenges/_init_.py'>
* Loaded module, <module 'CTFd.plugins.flags' from '/opt/CTFd/CTFd/plugins/flags/_init_.py'>
INFO [alembic.runtime.migration] Context impl SQLiteImpl.
INFO [alembic.runtime.migration] Will assume non-transactional DDL.
Starting CTFd
[2021-06-09 05:15:20 +0000] [1] [INFO] Starting gunicorn 20.0.4
[2021-06-09 05:15:20 +0000] [1] [INFO] Listening at: http://0.0.0.0:8000 (1)
[2021-06-09 05:15:20 +0000] [1] [INFO] Using worker: gevent
[2021-06-09 05:15:20 +0000] [23] [INFO] Booting worker with pid: 23

```

## 2) Visit GitHub to Fetch Docker Challenges

- Clone the GitHub Repo – git clone [https://github.com/raghavtalwar/cyberifi\\_ctf](https://github.com/raghavtalwar/cyberifi_ctf)
- Extract the .Zip File – unzip docker\_challenges.zip
- Now Change Directory and Go Inside the SQL Folder
- Type the Following 2 commands -
- + docker-compose up -d – 2 Images one will be SQL server & apache server (!!!!!!)
- + Check if 2 Images are running - docker ps

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root@kali: ~root@kali: ~root@kali: ~root@kali: ~/Downloads/SQL-Injection-Playground
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```
(root@kali) [-]  
# cd Downloads/SQL-Injection-Playground  
(root@kali) [-~/Downloads/SQL-Injection-Playground]  
# ls  
docker-compose.yml Dockerfile dump LICENSE README.md www  
(root@kali) [-~/Downloads/SQL-Injection-Playground]  
# docker-compose up -d  
Starting sql-injection-playground_db_1 ... done  
Starting sql-injection-playground_www_1 ... done  
(root@kali) [-~/Downloads/SQL-Injection-Playground]  
# docker ps
```

CONTAINER ID	IMAGE	COMMAND	CREATED	STATUS	PORTS	NAMES
f7e4dd5f6eb1	0807980/cyberfi_ctf	"opt/CTFd/docker-en..."	About a minute ago	Up About a minute	0.0.0.0:8080->8080/tcp	silly_northcutt
934e67671cc6	sql-injection-playground_www	"docker-php-entrypoi..."	6 days ago	Up 8 seconds	0.0.0.0:8081->80/tcp	sql-injection-playground_www_1
a05871e229c6	mysql:5.7	"docker-entrypoint.s..."	6 days ago	Up 9 seconds	33060/tcp, 0.0.0.0:3307->3306/tcp	sql-injection-playground_db_1

```
(root@kali) [-~/Downloads/SQL-Injection-Playground]  
#
```

**In order to run MySQL service, we need to SSH inside Docker, to do this. We can use the following commands –**

- Make sure to enter the correct Container ID of the Apache Container running, you can check the container running via docker ps command.
- ```
+ docker exec -t -i 294e67671cc6 /bin/bash
```
- ```
+ service mysql start
```

```

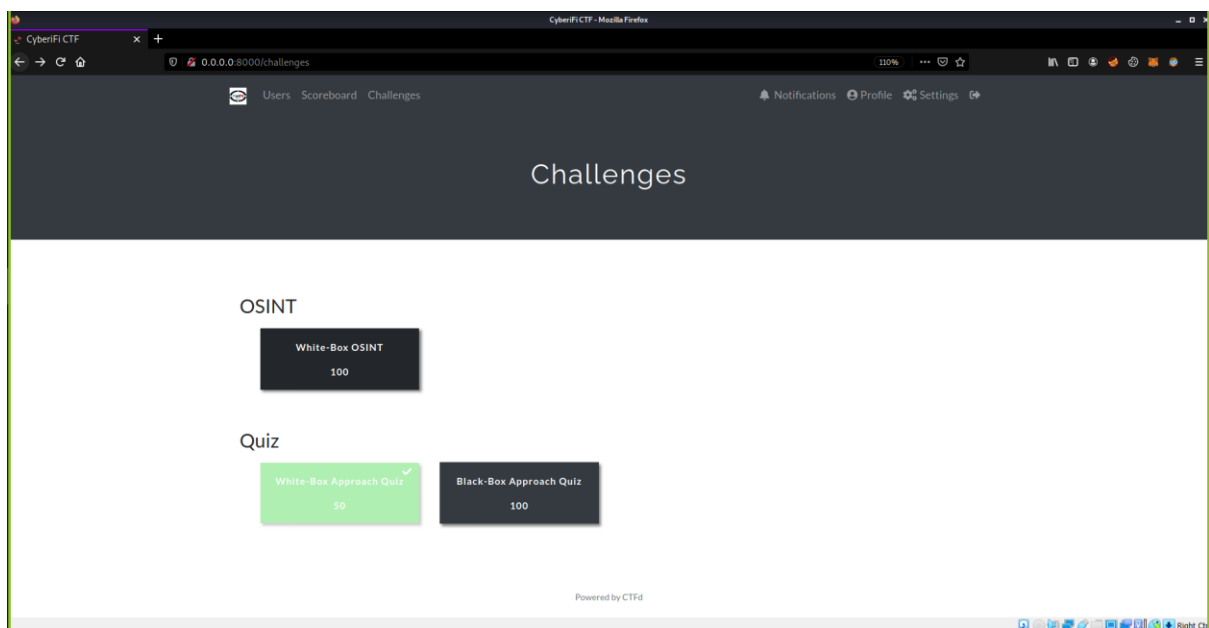
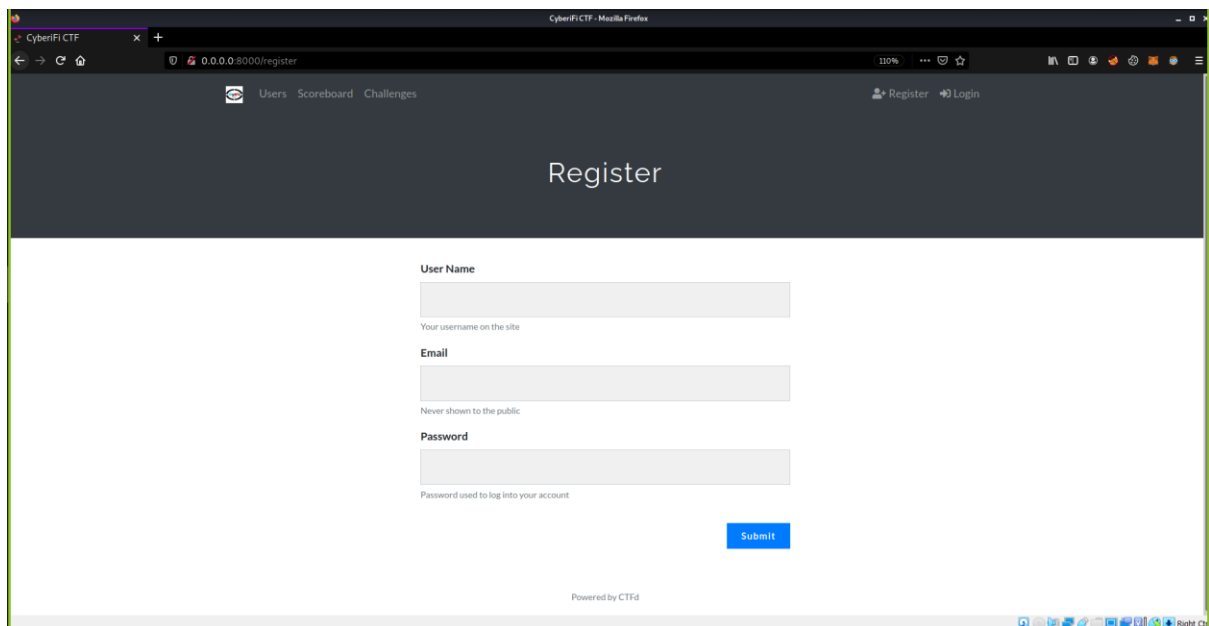
[red@kali:~/Downloads/SQL-Injection-Playground]
# docker ps
CONTAINER ID   IMAGE                                COMMAND                  STATUS    PORTS          NAMES
f4e4d3f6eb1   8007000/cyberif1 ctf                    "opt/CTF/docker-en-..." 2 minutes ago Up 2 minutes   0.0.0.0:8000->8000/tcp silly_northcutt
e4e4731cc6    sql-injection-playground_www        "docker-php-entrypoi..." 6 days ago Up About a minute 0.0.0.0:8081->80/tcp   sql-injection-playground_www_1
a55871e229cb   mysql:5.7                "docker-entrypoint.s..." 6 days ago Up About a minute 33060/tcp, 0.0.0.0:3307->3306/tcp sql-injection-playground_db_1

[red@kali:~/Downloads/SQL-Injection-Playground]
# docker exec -it 1294e67671cc /bin/bash
root@294e67671cc:/var/www/html# service mysql start
ok | Starting MySQL database server: mysqld ..
info: Checking for tables which need an upgrade, are corrupt or were
not closed cleanly.
root@294e67671cc:/var/www/html#

```

Now, you can visit <http://0.0.0.0:8000> and start playing the CyberiFi CTF.

- Create a new user.
- Solve Challenges
- Gain Points



## Other Basic Docker Commands –

- systemctl start docker
- docker pull ctfd/ctfd
- Stop all running containers - docker stop \$(docker ps -a -q)
- Remove all containers - docker rm \$(docker ps -a -q)
- Remove all images - docker rmi \$(docker images -q)