

Access control vulnerabilities and privilege escalation

LAB 61 Unprotected admin functionality

Quick fuzzing of the website reveals presence of /robots.txt file. Here are the contents of the file:

```
User-agent: *
Disallow: /administrator-panel
```

I directed to /administrator-panel and got access to admin table:

Users

wiener - [Delete](#)
carlos - [Delete](#)

Now, I can delete user 'carlos':

Congratulations, you solved the lab!

User deleted successfully!

Users

wiener - [Delete](#)

LAB 62 Unprotected admin functionality with unpredictable URL

Page source code:

```
28         <p>Not solved</p>
29         <span class=lab-status-icon></span>
30     </div>
31 </div>
32 </div>
33 </section>
34 </div>
35 <div theme="ecommerce">
36     <section class="maincontainer">
37         <div class="container">
38             <header class="navigation-header">
39                 <section class="top-links">
40                     <a href=Home</a><p></p>
41                 </script>
42
43 var isAdmin = false;
44 if (isAdmin) {
45     var topLinksTag = document.getElementsByClassName("top-links")[0];
46     var adminPanelTag = document.createElement('a');
47     adminPanelTag.setAttribute('href', '/admin-3161wg');
48     adminPanelTag.innerText = 'Admin panel';
49     topLinksTag.append(adminPanelTag);
50     var pTag = document.createElement('p');
51     pTag.innerText = '|';
52     topLinksTag.appendChild(pTag);
53 }
54 </script>
55     <a href="/my-account">My account</a><p></p>
56 </section>
57 </header>
58 <header class="notification-header">
59 </header>
60 <section class="ecom-pageheader">
61     
62 </section>
63 <section class="container-list-tiles">
64     <div>
65         
66         <h3>Caution Sign</h3>
67         
68         $19.60
69         <a class="button" href="/product/productId=1">View details</a>
70     </div>
71     <div>
72         
73         <h3>Vintage Neck Defender</h3>
74         
```

It reveals an URL obfuscated admin page /admin-3161wg:

Users

wiener - [Delete](#)
carlos - [Delete](#)

Deleting 'carlos' user:

Congratulations, you solved the lab!

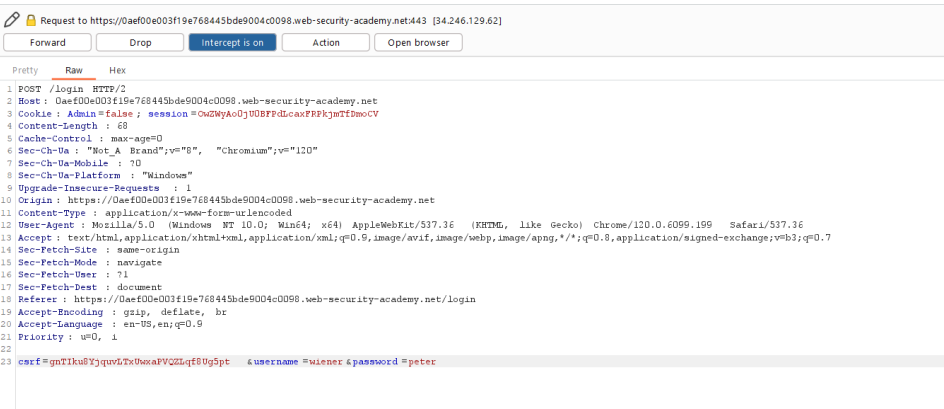
User deleted successfully!

Users

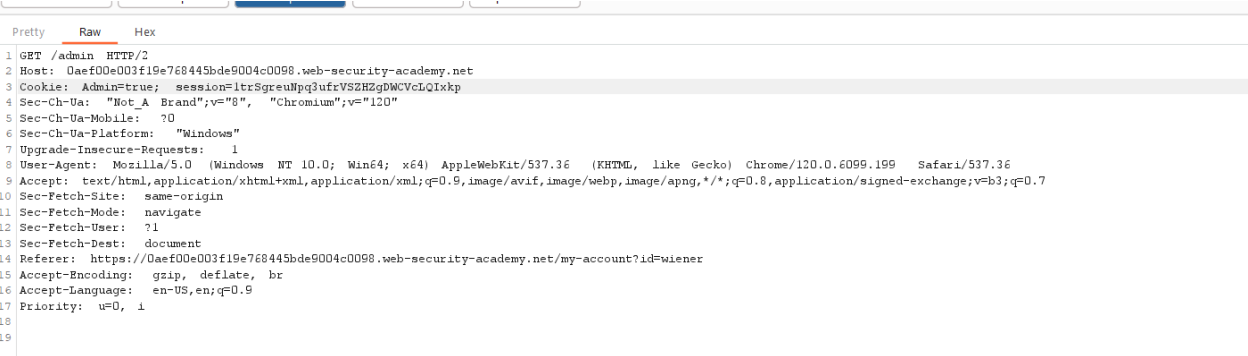
wiener - [Delete](#)

LAB 63 [User role controlled by request parameter](#)

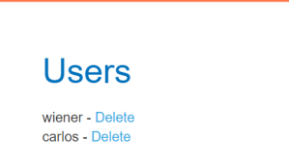
In this lab, I noticed Admin cookie to be set during log in:



I intercepted the request using Burp Interceptor and changed cookie to be true:



I did it on every request, since any action on website checks the admin cookie, directing o /admin requires cookie change as well. Finally, Admin panel is available:



After 'carlos' deletion:

Congratulations, you solved the lab!

LAB 64 [User role can be modified in user profile](#)

Changing account email request contains JSON piece of code:

```
1 POST /my-account/change-email HTTP/2
2 Host: 0a8e008e04a95c28313999000950073.web-security-academy.net
3 Cookie: session=31yuGFUaBXrSkIGp9Ln2ixphq8JhsIB
4 Content-Length: 28
5 Sec-Ch-Ua: "Not A Brand";v="8", "Chromium";v="120"
6 Sec-Ch-Ua-Platform: "Windows"
7 Sec-Ch-Ua-Mobile: ?0
8 User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/120.0.6099.199 Safari/537.36
9 Content-Type: text/plain; charset=UTF-8
10 Accept: */*
11 Origin: https://0a8e008e04a95c28313999000950073.web-security-academy.net
12 Sec-Fetch-Site: same-origin
13 Sec-Fetch-Mode: cors
14 Sec-Fetch-Dest: empty
15 Referer: https://0a8e008e04a95c28313999000950073.web-security-academy.net/my-account?id=wiener
16 Accept-Encoding: gzip, deflate, br
17 Accept-Language: en-US,en;q=0.9
18 Priority: u=1, i
19
20 {
  "email": "dadada@gmail.com"
}
```

In lab description, it was mentioned that admin panel is available to users with roleid:2, therefore, I will add "roleid":2 into json:

Home | [Admin panel](#) | [My account](#) | [Log out](#)

My Account

Your username is: wiener
Your email is: dadada@gmail.com

Email

Update email

Having changed the email with my injection, I have admin panel access now. Now, final step of the task – deletion of user carlos:

Congratulations, you solved the lab!

User deleted successfully!

Users

wiener - [Delete](#)