## Access Control Vulnerabilities

# Unprotected admin functionality

# **Users**

wiener - Delete carlos - Delete

# Unprotected admin functionality with unpredictable URL

1. view page source and find admin path

```
28
                                  Not solved
29
                                  <span class=lab-status-icon></span>
                             </div>
30
                         </div>
31
                </div>
33
            </div>
34
35
            <div theme="ecommerce">
                <section class="maincontainer">
36
                     <div class="container">
                         <header class="navigation-header">
38
39
                             <section class="top-links">
                                  <a href=/>Home</a>|
40
                                  <script>
41
42 var isAdmin = false;
43 if (isAdmin) {
      var topLinksTag = document.getElementsByClassName("top-links")[0];
44
45
      var adminPanelTag = document.createElement('a');
      adminPanelTag.setAttribute('href', '/admin-95yebb');
adminPanelTag.innerText = 'Admin panel';
46
47
48
      topLinksTag.append(adminPanelTag);
      var pTag = document.createElement('p');
49
      pTag.innerText = '|';
topLinksTag.appendChild(pTag);
50
```

# User role controlled by request parameter

wiener - Delete

1. Intercept the request and change Admin=false to Admin=true

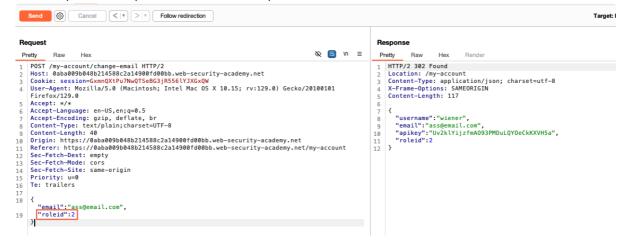
```
| Propose | Prop
```

2. Delete User Carlos

# User role controlled by request parameter

1. Login to the site

2. Intercept the request send it to repeater and add roleid

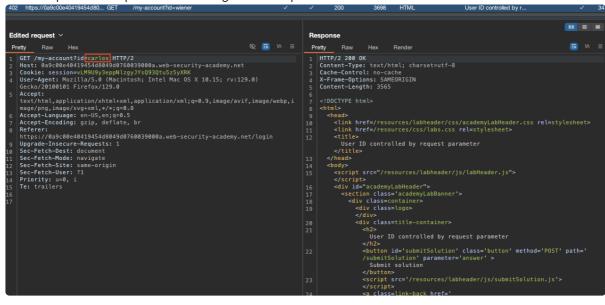


3. Deleter user Carlos

#### User ID controlled by request parameter

1. Login to website

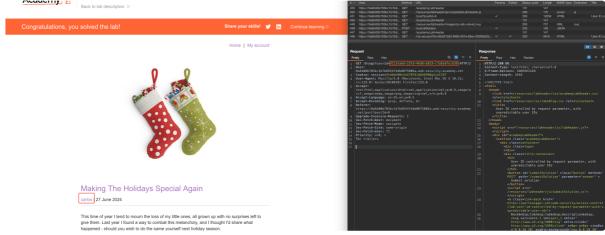
2. Intercept the request and change the request to Carlos



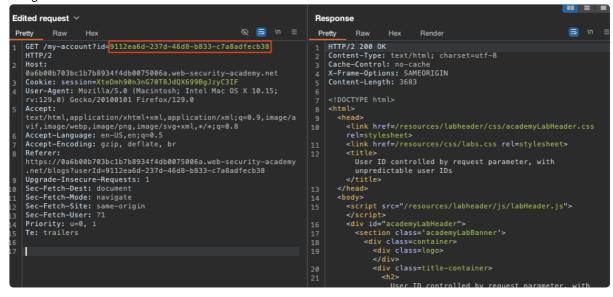
Submit the flag

#### User ID controlled by request parameter, with unpredictable user IDs

1. Find User Carlos id in blog post

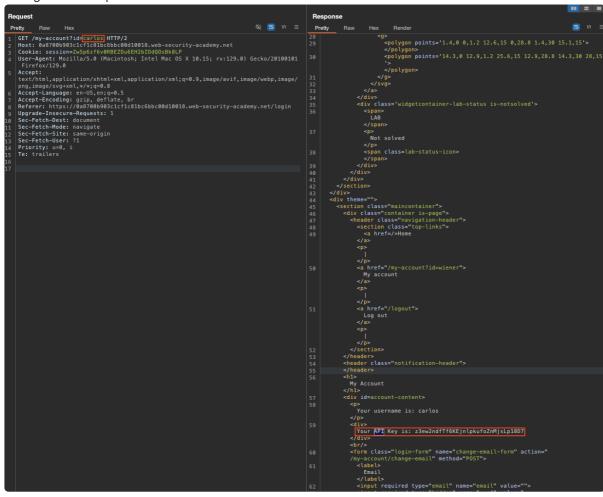


2. Login to the website and change user id to the one that we found and submit the flag



User ID controlled by request parameter with data leakage in redirect

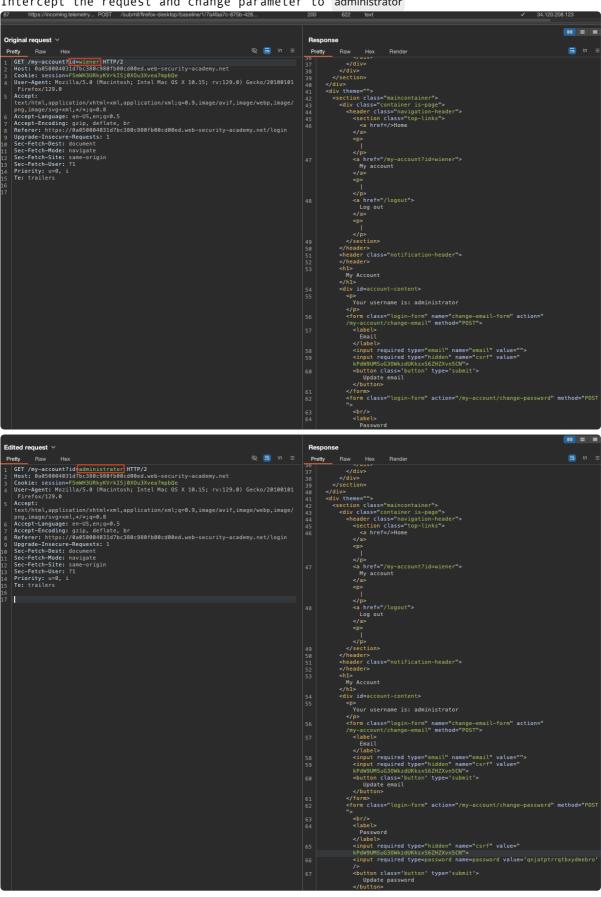
- 1. Login to the website
- 2. Change the id parameter to Carlos



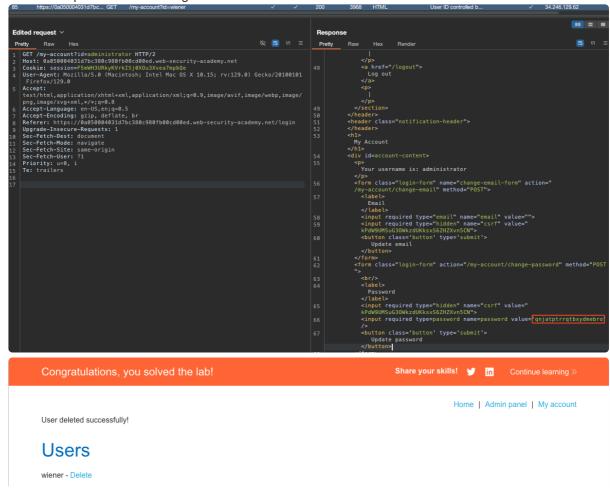
User ID controlled by request parameter with password disclosure

1. Login to the website

2. Intercept the request and change parameter to administrator

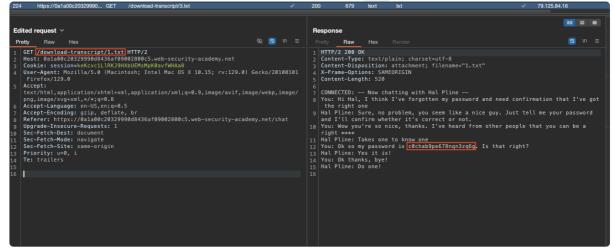


3. Take the password and login as administrator and delete user Carlos



## Insecure direct object references

- 1. Select Live Chat
- 2. Intercept the request and change the filename to 1.txt

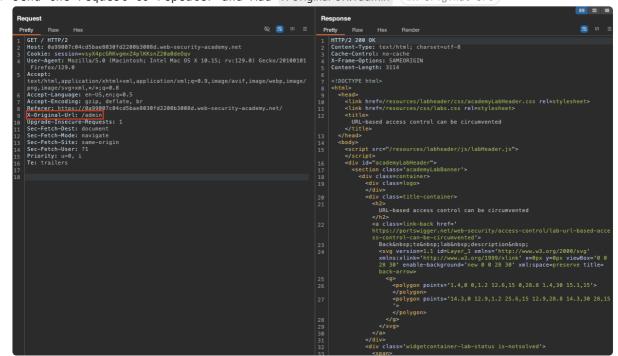


3. Login to the account using user and password that you receive

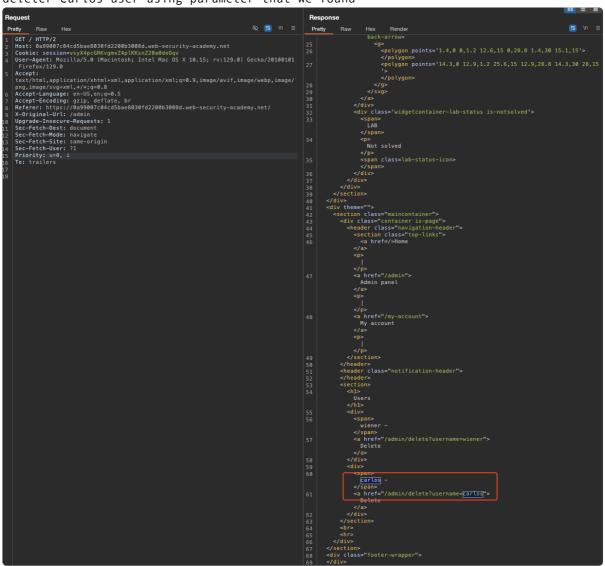
## URL-based access control can be circumvented

- 1. Try to access Admin panel
- 2. Intercept the request (as you can see we cannot access admin panel)

3. Send the request to repeater and Add X-Original-Url:/admin #X-Original-Url



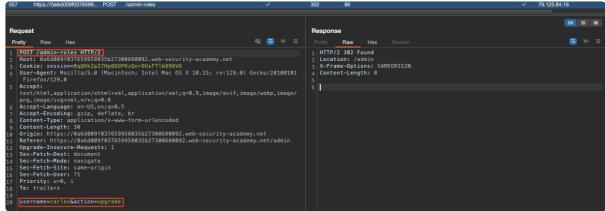
4. deleter Carlos user using parameter that we found



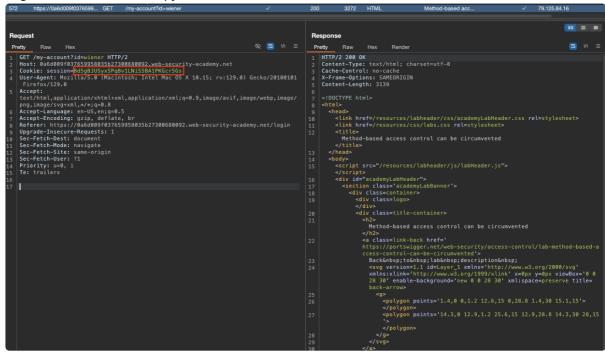
```
| Request | Response | Pretty | Raw | Hex | Render | Response | Re
```

## Method-based access control can be circumvented

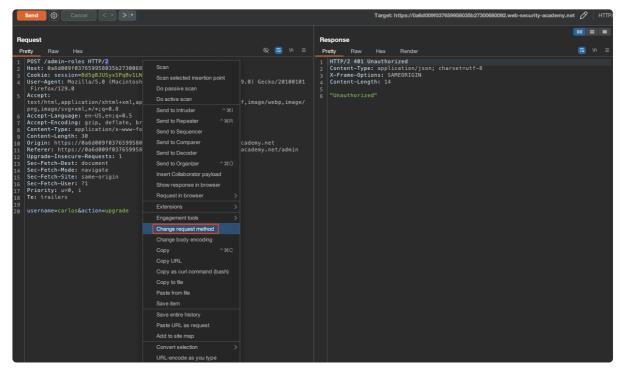
- 1. Enumerate admin page (Login as admin)
- 2. Upgrade Carlos and look at the request



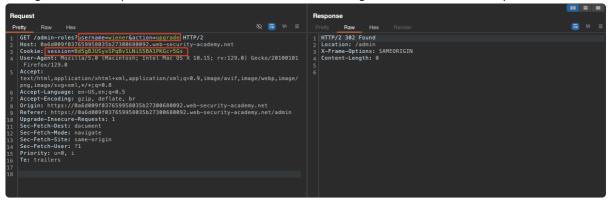
3. Login as Weiner and copy the user cookie



4. Convert the request to use the GET method by right-clicking and selecting "Change request method".



5. Change username parameter to Weiner and also change cookie that we copied

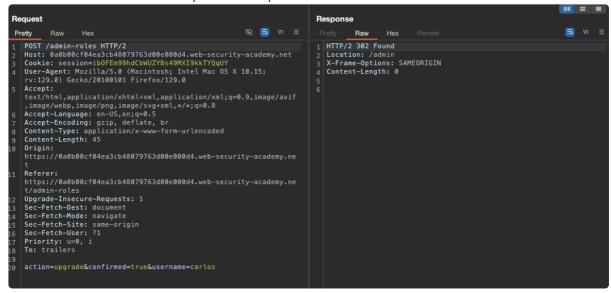


#### Multi-step process with no access control on one step

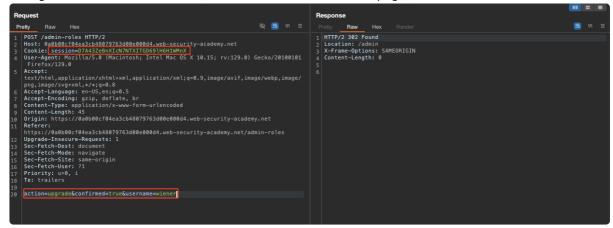
- 1. Login as Administrator
- 2. Upgrade Carlos user and send the request to repeater

```
| Report
| Patty | Raw | Hox | Rev |
```

3. Also send confirmation request to repeater

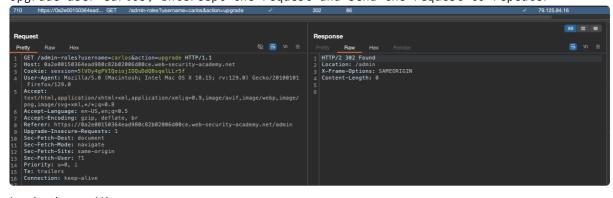


- 4. Login in as Weiner
- 5. Copy Weiner cookie and paste it on the admin request that we intercept , also change username to Weiner (Do this in confirmation page)



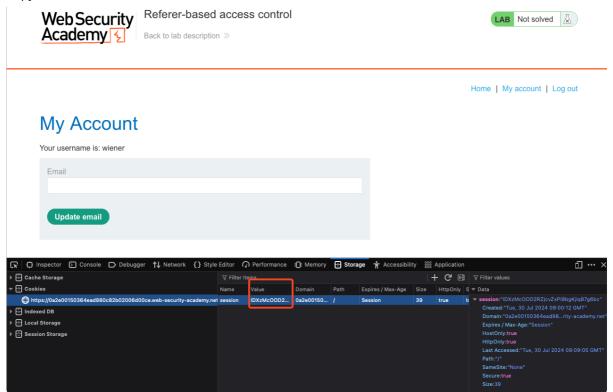
#### Referer-based access control

- 1. Login as Administrator
- 2. Upgrade user Carlos, Intercept the request and send the request to repeater



3. Login in as Wiener

4. Copy Wiener Cookies



5. Change username to wiener on the request that we intercept on admin request and paste cookie that we copy from Wiener account

