

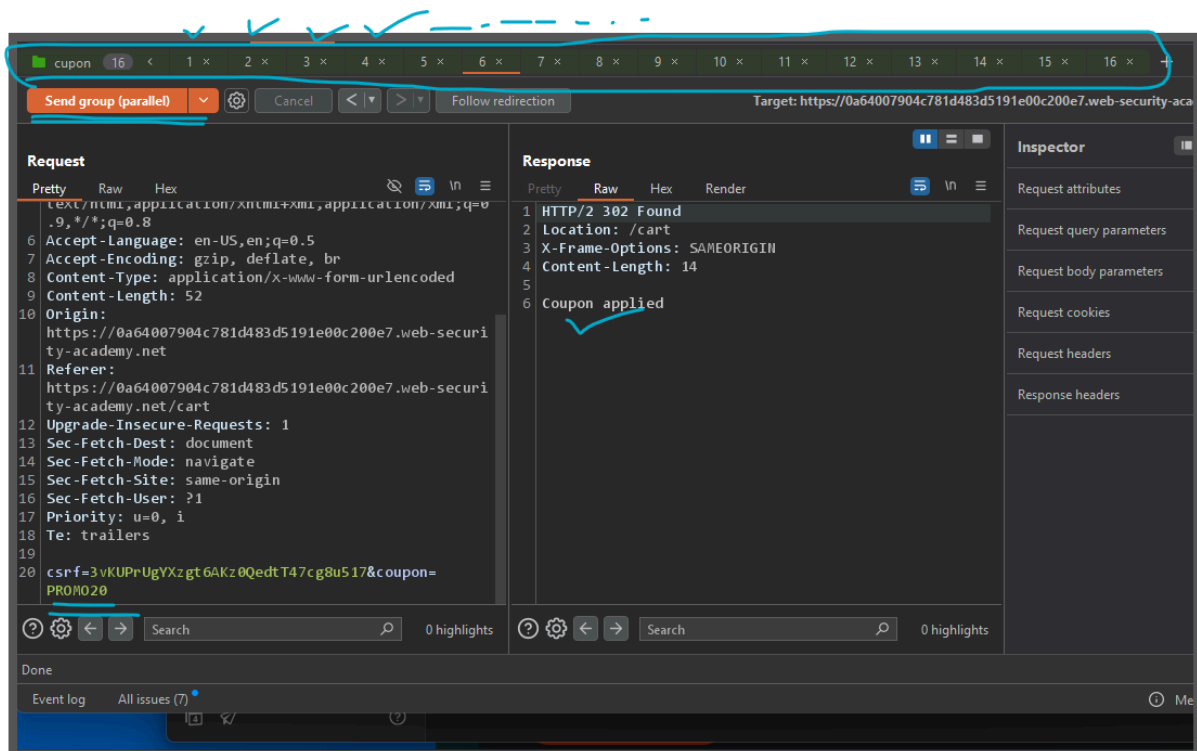
# Race Condition

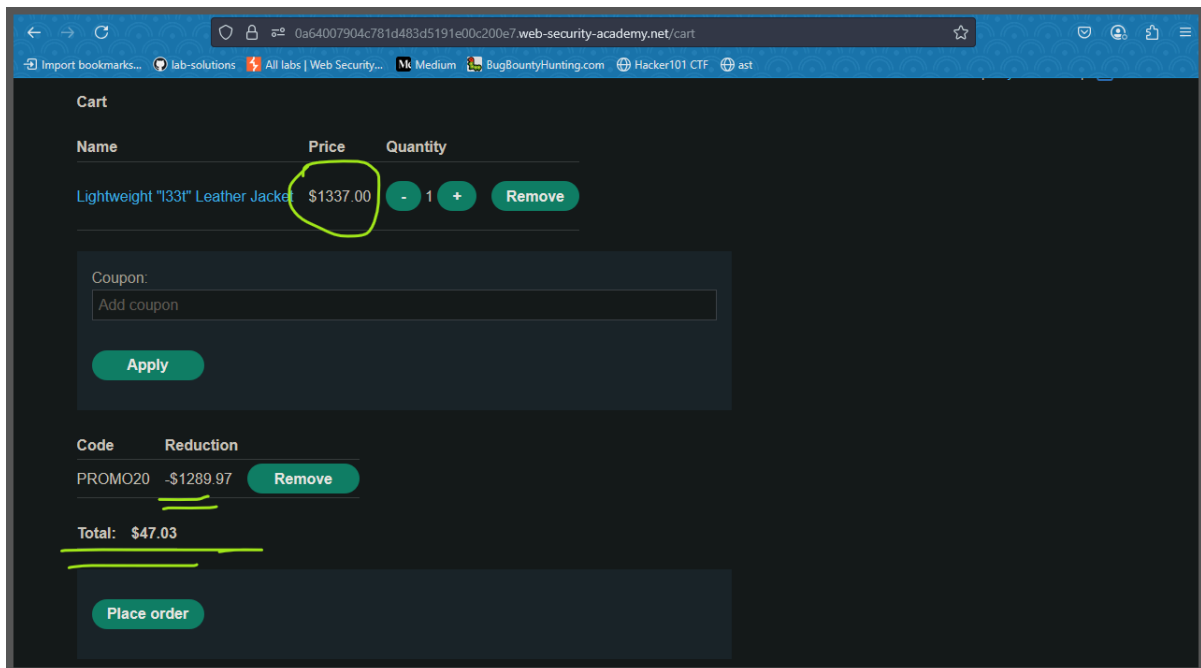
## Lab: Limit overrun race conditions

This lab's purchasing flow contains a race condition that enables you to purchase items for an unintended price.

To solve the lab, successfully purchase a **Lightweight L33t Leather Jacket**.

You can log in to your account with the following credentials: `wiener:peter`.





## Lab: Bypassing rate limits via race conditions

This lab's login mechanism uses rate limiting to defend against brute-force attacks. However, this can be bypassed due to a race condition.

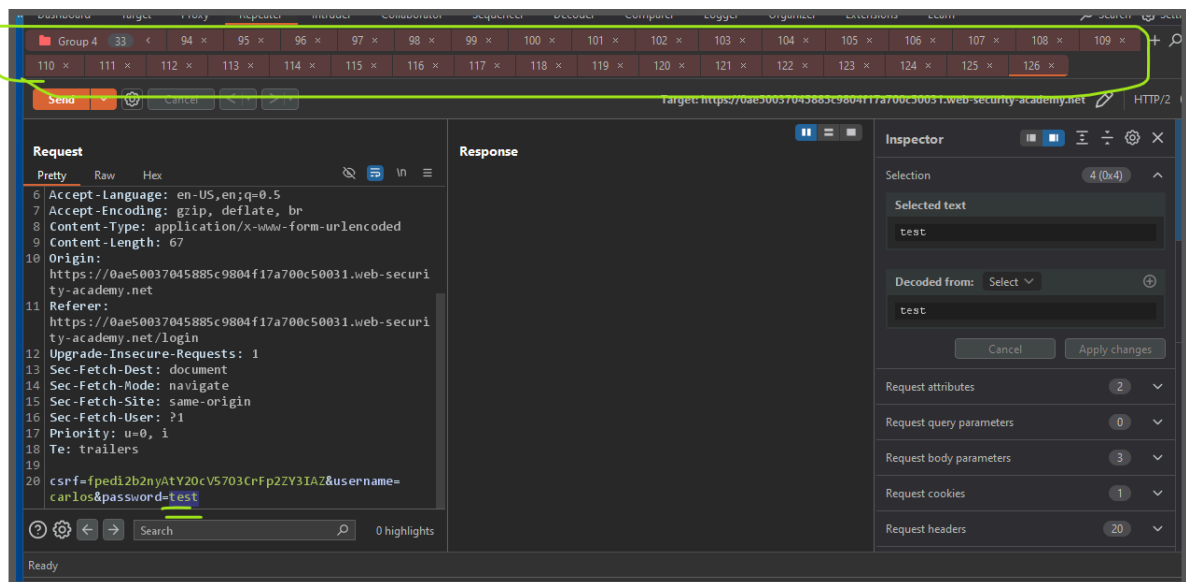
To solve the lab:

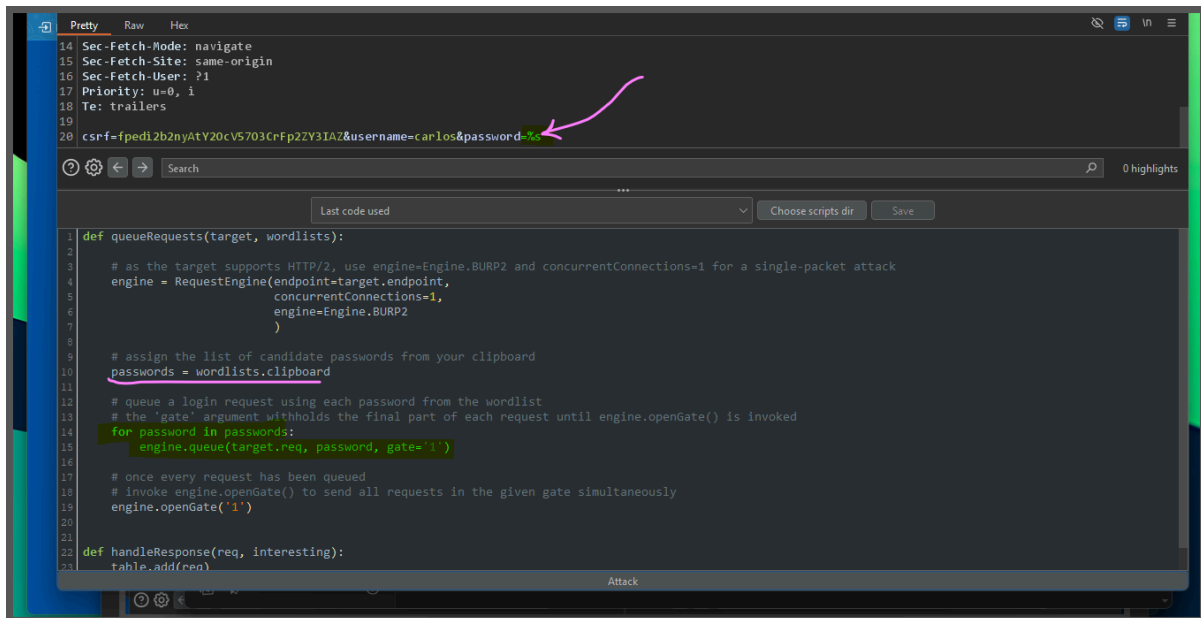
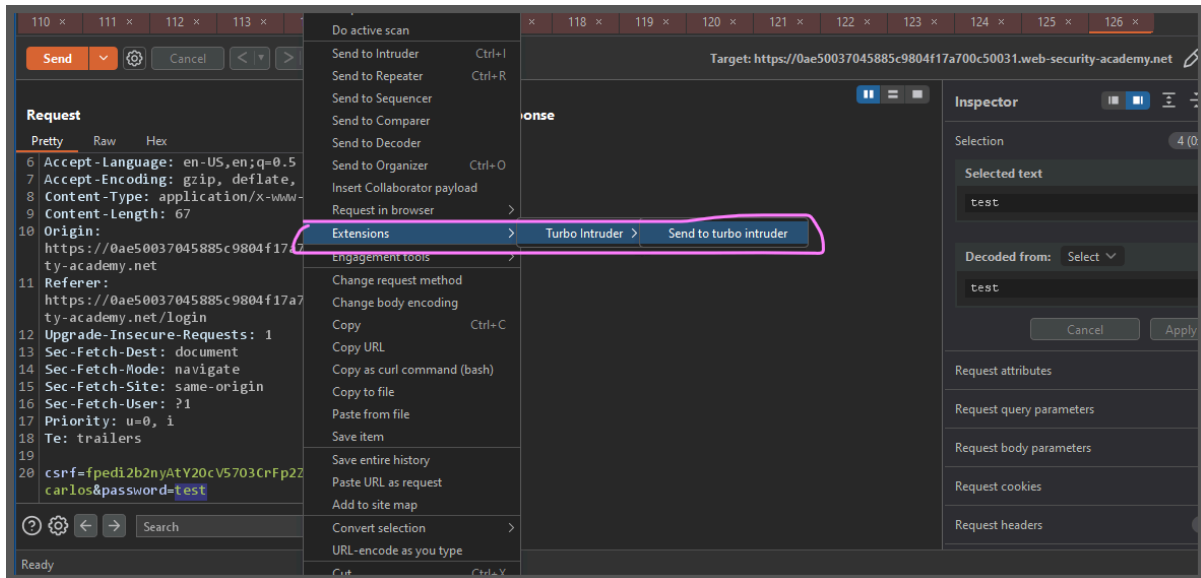
1. Work out how to exploit the race condition to bypass the rate limit.
2. Successfully brute-force the password for the user `carlos`.
3. Log in and access the admin panel.
4. Delete the user `carlos`.

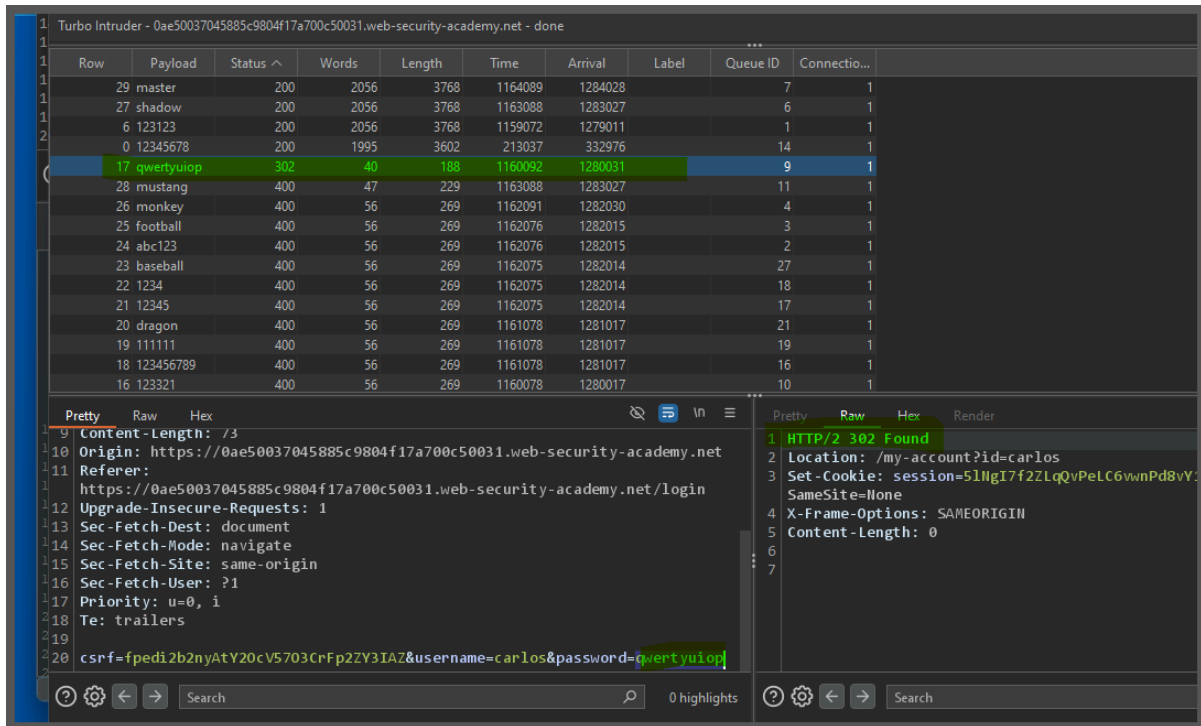
You can log in to your account with the following credentials: `wiener:peter`.

```
123123
abc123
football
monkey
letmein
shadow
master
666666
```

qwertyuiop  
123321  
mustang  
123456  
password  
12345678  
qwerty  
123456789  
12345  
1234  
11111  
1234567  
dragon  
1234567890  
michael  
x654321  
superman  
1qaz2wsx  
baseball  
7777777  
121212  
000000







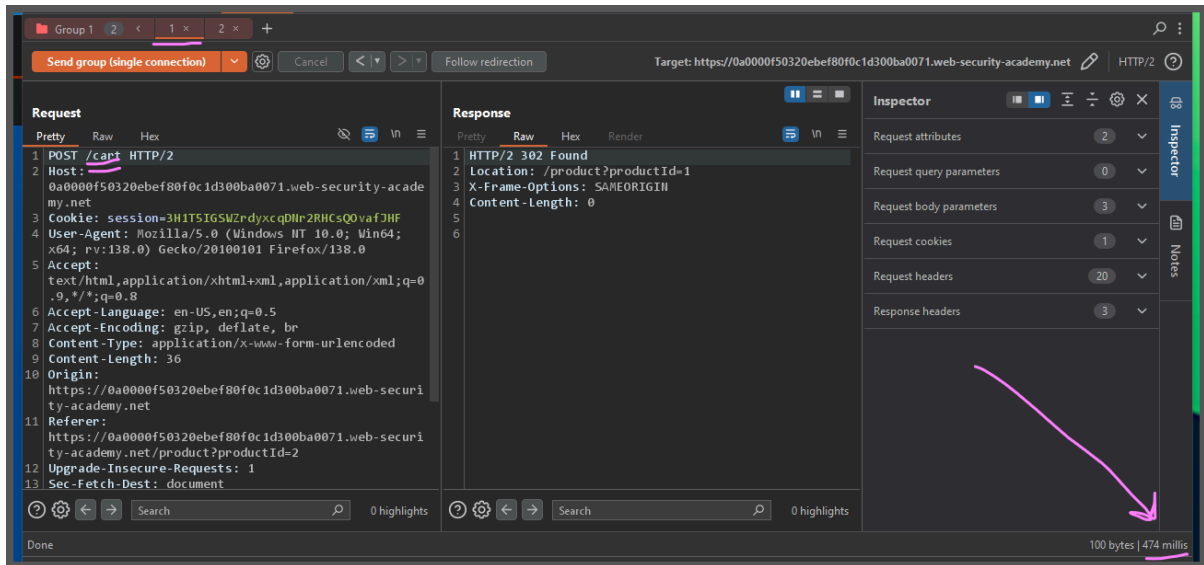
while starting the attack make sure that you have copied that password

## Lab: Multi-endpoint race conditions

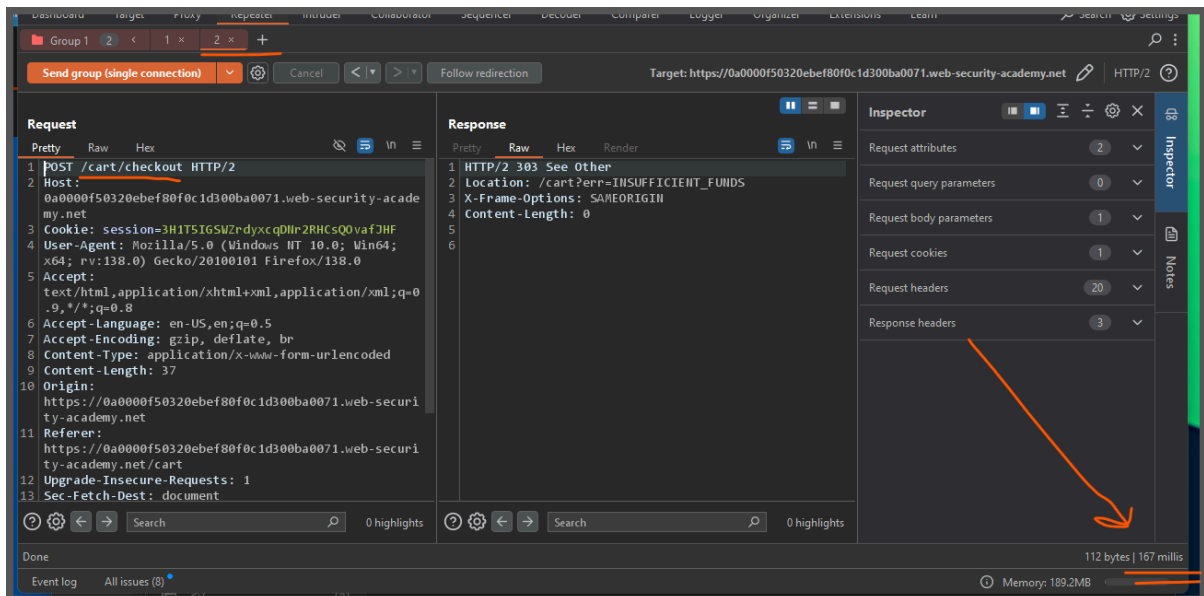
This lab's purchasing flow contains a race condition that enables you to purchase items for an unintended price.

To solve the lab, successfully purchase a **Lightweight L33t Leather Jacket**.

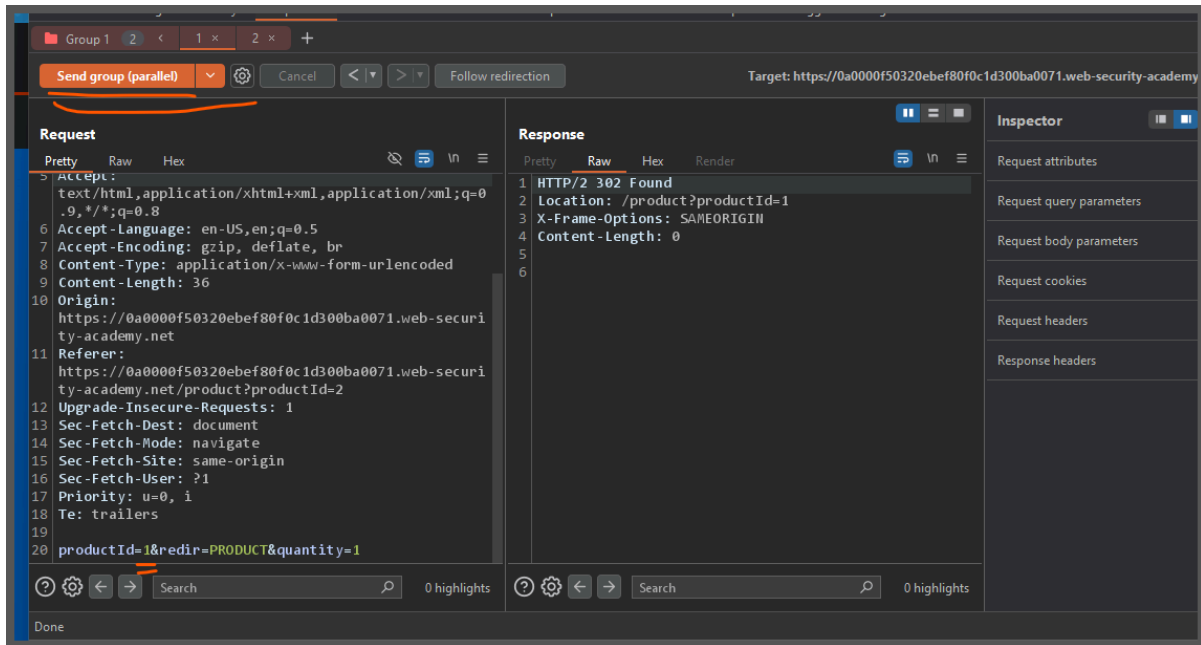
You can log into your account with the following credentials: `wiener:peter`.



this is to add the product in cart consider this as request 1



this is the second request this require lesser time that first request  
 its checking that you have enough money or not  
 once you have then it proced  
 so  
 first we added the magic card produt which is 10 \$ price in the card



in the cart we have only one product magic card

now we want to make two request at same time

one is for add leadher jacket and another one is for checkout

once cheking is done and in that fraction of second we added the another product leadher jacket

so it is not goint to check again infact it will direct proced thinking ye price is 10\$ for magic card

### Lab: Single-endpoint race conditions

This lab's email change feature contains a race condition that enables you to associate an arbitrary email address with your account.

Someone with the address `carlos@ginandjuice.shop` has a pending invite to be an administrator for the site, but they have not yet created an account. Therefore, any user who successfully claims this address will automatically inherit admin privileges.

To solve the lab:

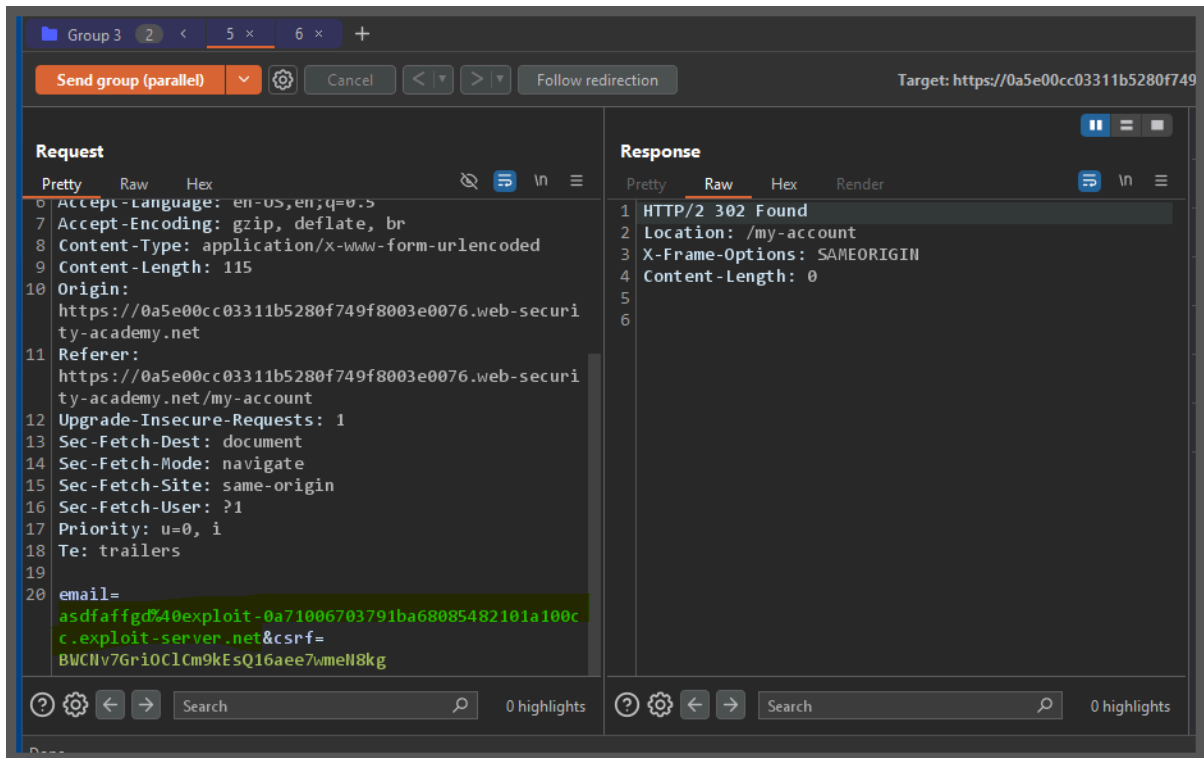
1. Identify a race condition that lets you claim an arbitrary email address.
2. Change your email address to `carlos@ginandjuice.shop`.

3. Access the admin panel.

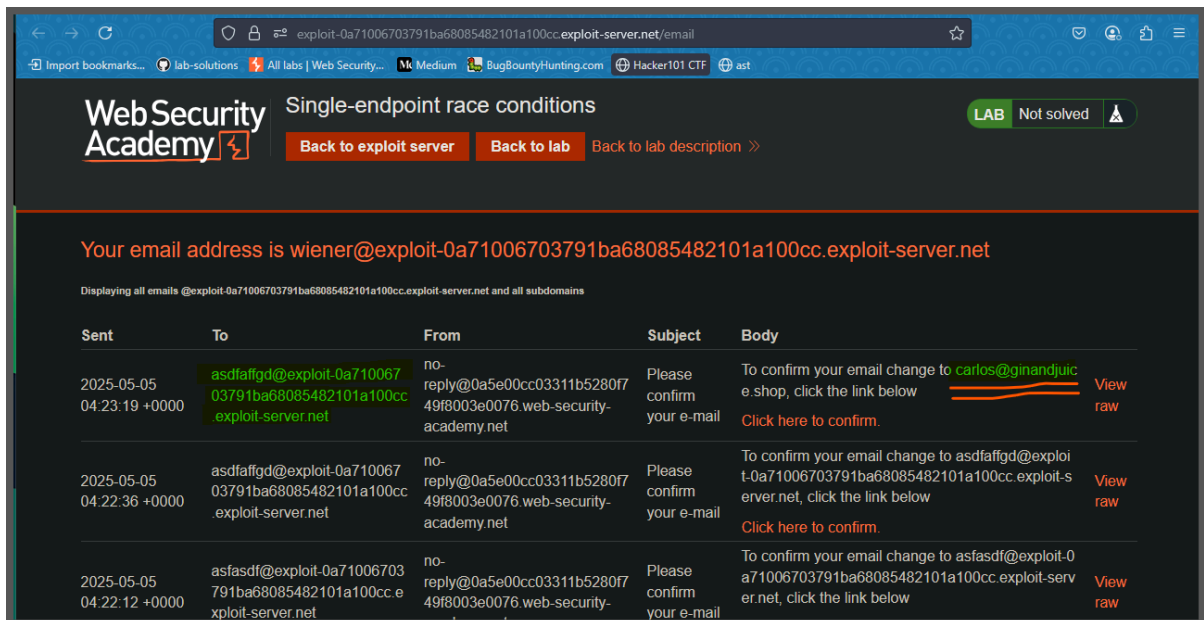
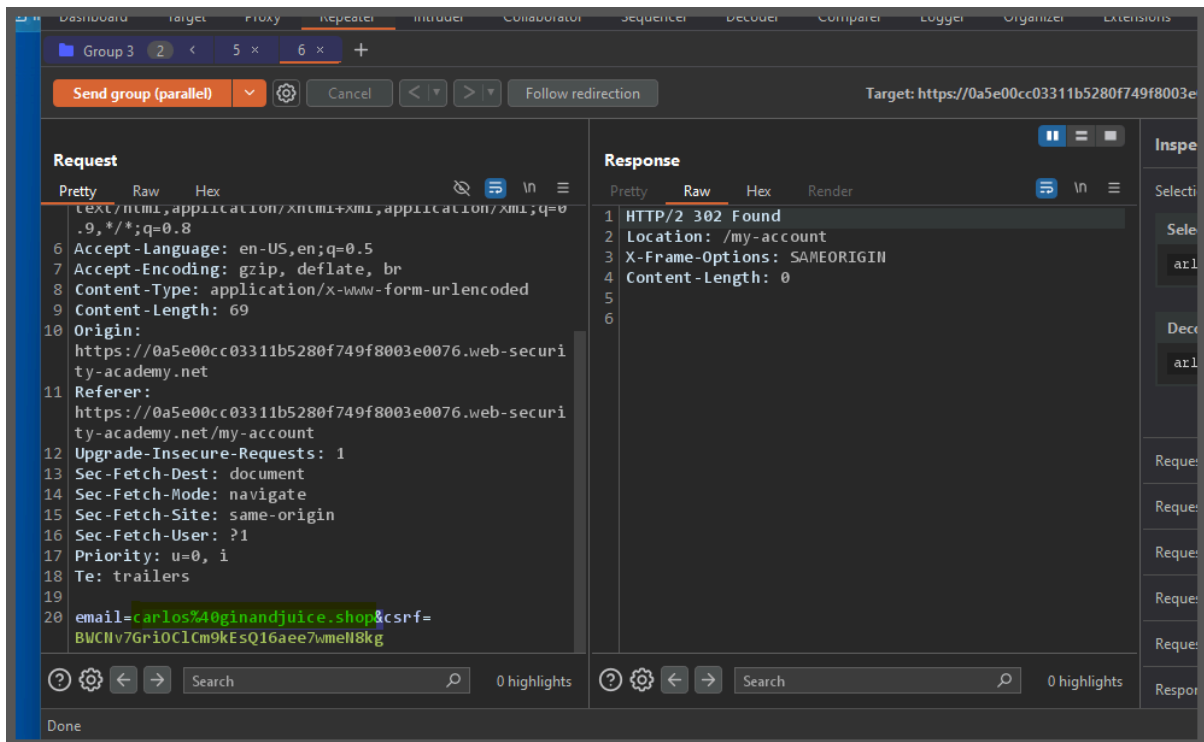
4. Delete the user `carlos`

You can log in to your own account with the following credentials: `wiener:peter`.

You also have access to an email client, where you can view all emails sent to `@exploit-<YOUR-EXPLOIT-SERVER-ID>.exploit-server.net` addresses.







we got the the email of that carlos in our inbox

## Lab: Exploiting time-sensitive vulnerabilities

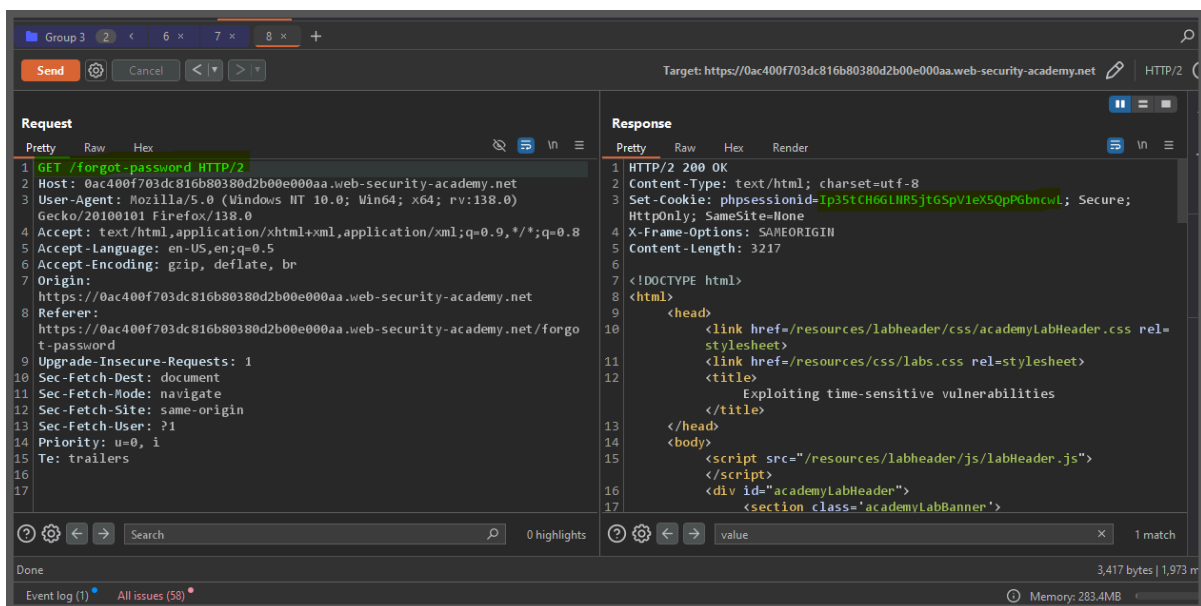
This lab contains a password reset mechanism. Although it doesn't contain a race condition, you can exploit the mechanism's broken

cryptography by sending carefully timed requests.

To solve the lab:

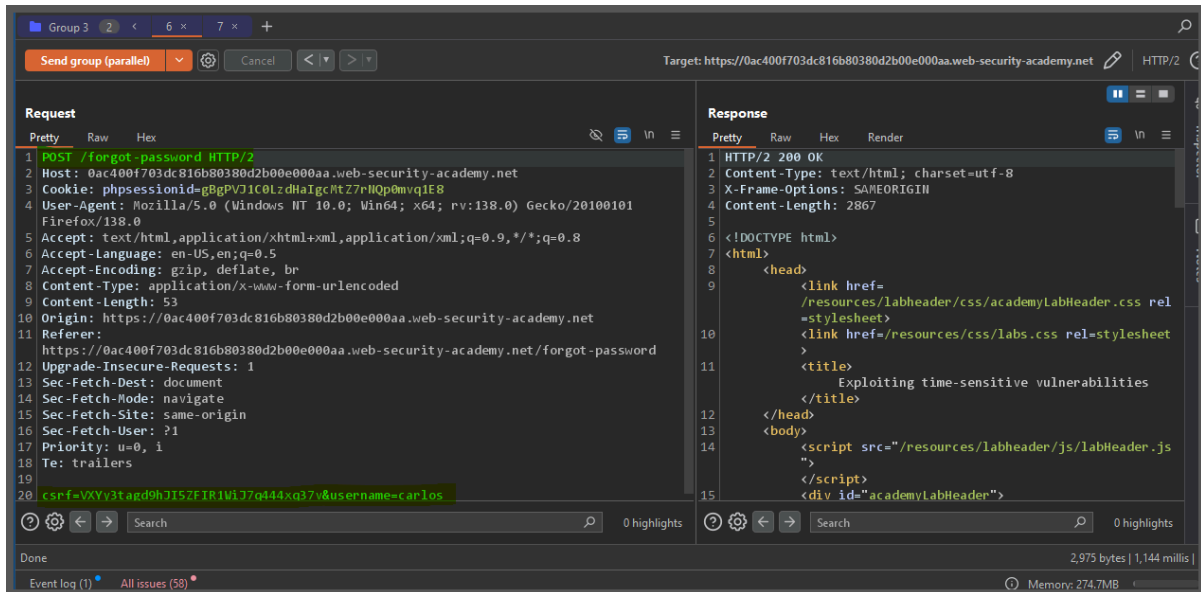
1. Identify the vulnerability in the way the website generates password reset tokens.
2. Obtain a valid password reset token for the user `carlos`.
3. Log in as `carlos`.
4. Access the admin panel and delete the user `carlos`.

You can log into your account with the following credentials: `wiener:peter`.

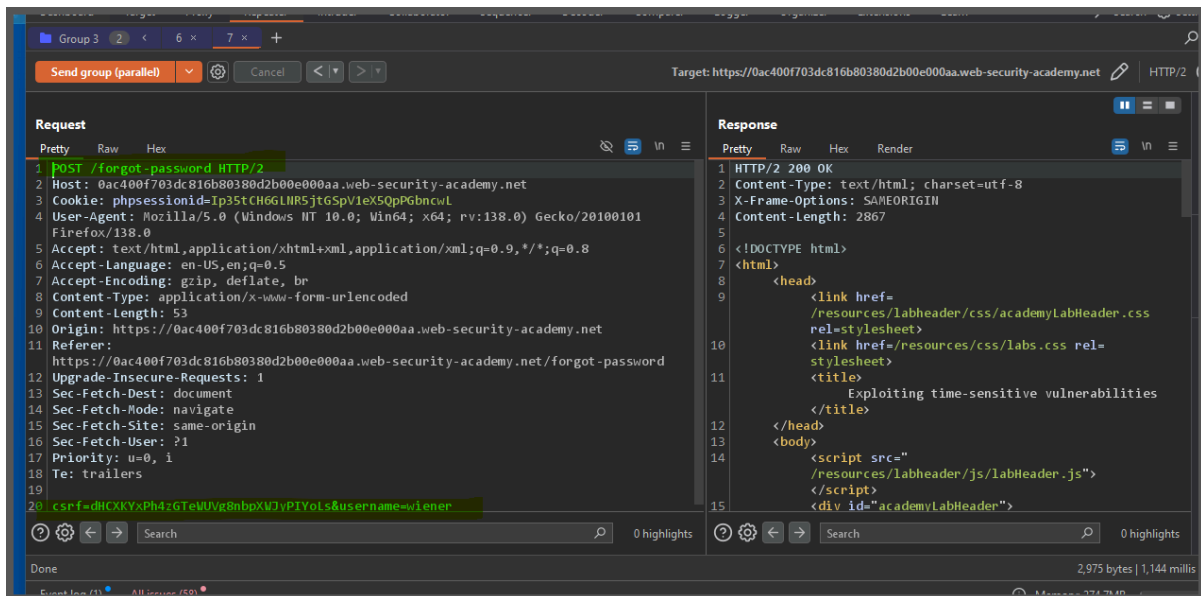


you can create new session cookie and csrf token with this request

scroll down the response code and you will find csrf request



consider req-1



consider req-2

now mention that that both request should have different session cookie and csrf token

send it in parallel

notice that time right hand side to bottom  
both time are same from req1 and req2  
time is same it means token is also same

Sent	To	From	Subject	Body	
				Hello!	
				Please follow the link below to reset your password.	
2025-05-05 06:36:18 +0000	wiener@exploit-0ae1004 6032d8193804f0ce2018 e00a2.exploit-server.net	no-reply@0ac400f703dc816b8 0380d2b00e000aa.web- security-academy.net	Account recovery	<a href="https://0ac400f703dc816b80380d2b00e000aa.web-security-academy.net/forgot-password?user=wiener&amp;token=79845645d3f1a4c21087dd1f396f9cb500d5680c">https://0ac400f703dc816b80380d2b00e000aa.web-security-academy.net/forgot-password?user=wiener&amp;token=79845645d3f1a4c21087dd1f396f9cb500d5680c</a>	View raw
				Thanks, Support team	
				Hello!	

Change to Carlos