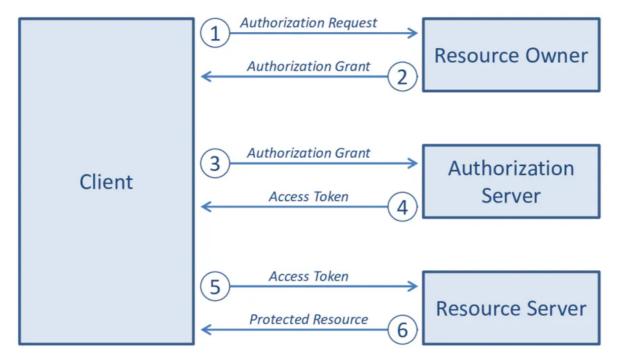
Portswigger Labs—OAuth authentication

同步自Portswigger Labs — OAuth authentication | by Ry4nnnn | Nov, 2023 | Medium

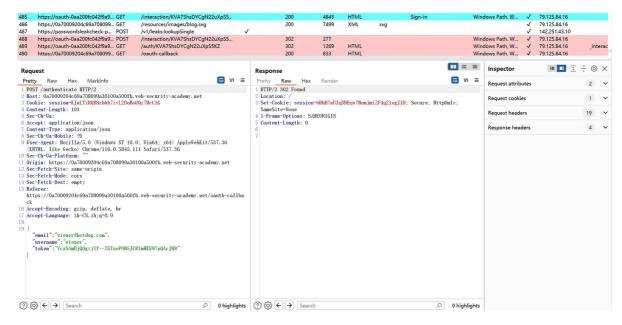
I'm gonna talk to you about oauth authentication and how to exploit it in this article.



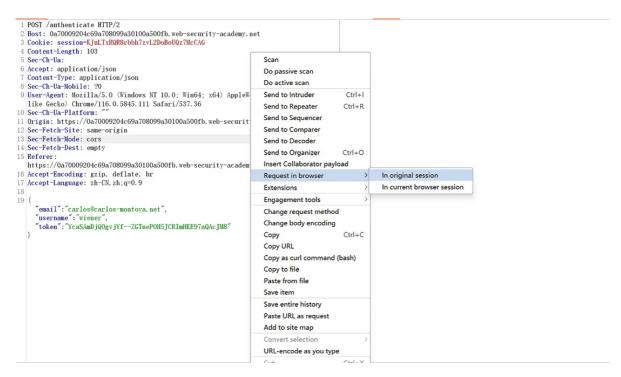
Authentication bypass via OAuth implicit flow

To solve the lab, log in to Carlos's account. His email address is carlos@carlos-montoya.net.

Logging in with winner/peter, inspecting the history traffic in burp reveals a notable POST request with the path /authenticate.



Let's change email param to calos and right-click the request, choosing request in browser in original session:



Congratulations!



Forced OAuth profile linking

To solve the lab, use a <u>CSRF attack</u> to attach your own social media profile to the admin user's account on the blog website, then access the admin panel and delete <u>carlos</u>.

In this segment, we can login with traditional username/password. Finishing that, logging in with social media is available.

Let's commence from the beginning:



Successfully login with winner/peter.

Click on attach a social profile and you will be redirected to the following page:



Inspecting the traffic, we can identify a /oauth-linking request. This request is utilized for account binding, providing a crucial gateway for further access.



At this step, our goal is to manipulate the above packet.

Let's click the attach a social profile one more time.

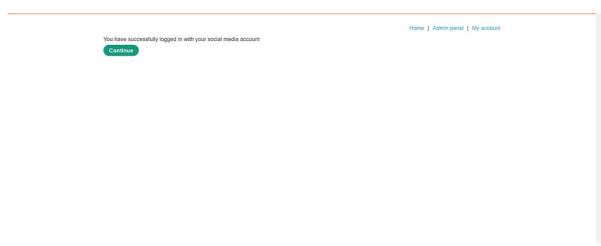
Turn on the intercept, forward and forward and forward, until come across /oauth-linking.

Right-click and select copy url, and then drop this packet, preventing it from binding to our own account.

Go to the exploit server and create an iframe in which the src attribute points to the URL we just copied.



Click on deliver exploit to victim and go back to the homepage, attaching a social profile, and the result should look something like this:



Now we successfully bound to the admin account.

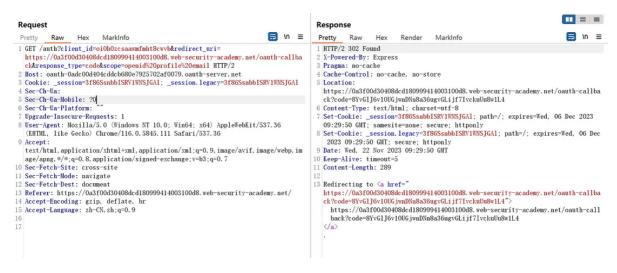
Next section.

OAuth account hijacking via redirect_uri

To solve the lab, steal an authorization code associated with the admin user, then use it to access their account and delete the user carlos.

The provided login credentials remain as wiener/peter. Upon logging in with these credentials, click on LOG OUT. Subsequently, click on my account again, and you'll observe a direct successful login.

Inspecting the traffic in burp, a GET request with the path /auth? client_id=xxx&redirect_uri=xxx is evident.

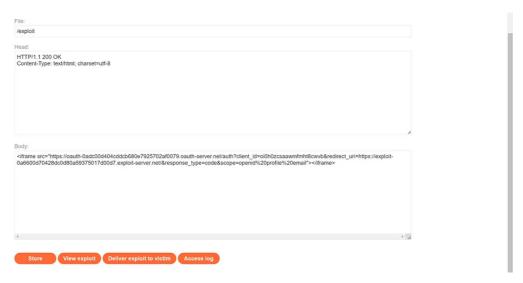


Modifying the redirect_uri parameter to exploit-server results in a successful access log entry, confirming our fully control over this parameter.



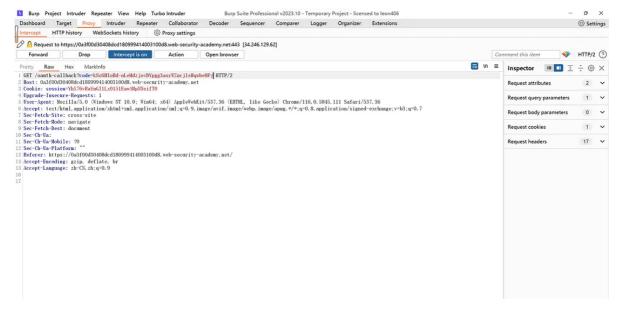
IP/1.1" 200 "user-agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chapurces/css/labsDark.css HTTP/1.1" 200 "user-agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chapter agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chapter agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Durces/css/labsDark.css HTTP/1.1" 200 "user-agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.

Our strategy involves redirecting with the redirect_uri parameter modified to the exploit-server during redirection. This will prompt the admin user to access the link, allowing us to obtain the admin login credentials in the form of a code.



Check access log and secret code is presented.

Subsequently, we can utilize this code to log in to the admin account by modifying the parameter like this:



Admin privilege:

You have successfully logged in with your social media account Continue

