# **Buuctf admin**



9篇文章0订阅 订阅专栏 打开该靶机,发现为一个登陆的界面

总共有三个界面,分别为主界面,login登陆界面和register注册界面

根据标题,猜测应该是让我们用admin的用户去登陆

尝试对登陆界面进行SQL注入

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发现为500错误,无法对其注入

那么转换下思路,先注册一个进去看一下(admin用户无法被注册,需要用另外用户名)

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#### hctf

Hello 12345

Welcome to hctf

≡
index
post
change password
logout

CSDN @Dexret

发现里面有四个界面,第一个为主界面,第二个类似留言板,但是xss被完全过滤了,第三个为修改密码界面, 第四个为退出

在这四个界面中,只剩下修改密码这个界面可以作为突破点

```
查看一下该页面的源码
```

这道题居然在源码暴露了github源码网站,而且看名字可以猜测出是用flask框架写出来的

flask是一个使用 Python 编写的轻量级 Web 应用框架,其 session 存储在客户端中,也就是说其实只是将相关内容进行 了加密保存到session中。和服务端的session不同,服务端的session保存在服务端中,依靠客户端cookie值中的 sessionld来进行识别。本身sessionld是没有价值的,而客户端的session是可以被截取破解后得到有价值的原文

可以通过抓包看一下我们自己的session

5 Burp Project Intruder Repeater Window Help Burp Suite Community Edition v2021.10.3 - Temporary Project  $\times$ Dashboard Target Proxy Intruder Repeater Sequencer Decoder Comparer Logger Extender Project options User options Learn HTTP history WebSockets history Options Intercept Request to http://b71239d3-3745-4a9a-94f0-31cc2acedc3f.node4.buuoj.cn:81 [117.21.200.166] Intercept is on Open Browser ₩ НТТР/1 (?) Forward Drop Action Comment this item Pretty Raw Hex 🚍 \n 🚍 = 1 POST /change HTTP/1.1 2 Host: b71239d3-3745-4a9a-94f0-31cc2acedc3f.node4.buuoj.cn:81 INSPECTOR Content-Length: 147 Cache-Control: max-age=0 Upgrade-Insecure-Requests: 1 Origin: http://b71239d3-3745-4a9a-94f0-31cc2acedc3f.node4.buuoj.cn:81 Content-Type: multipart/form-data; boundary=---WebKitFormBoundary1N1NLr642PS2F067 User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64: x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/96.0.4664.45 Safari/537.36 Accept: text/html, application/xhtml+xml, application/xml:q=0.9, image/avif, image/webp, image/appg, \*/\*:q=0.8, application/signed-exchange:v=b3:q=0.9 Referer: http://b71239d3=3745-4a9a-94f0-31cc2acedc3f.node4.buuoj.cn:81/change Accept-Encoding: gzip, deflate Accept-Language: zh-CN, zh:g=0.9 // Accept=Language: zn=U, zn:a=U, y
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既然客户端的session可以被截取破解,那么这道题就可以去利用flask session伪造来解题

在解该题之前可以先了解一下flask 源码解析: session以及客户端 session 导致的安全问题

在查看了一下大佬的wp后,找到了一段python的解密脚本

```
#index.html
#!/usr/bin/env python3
import sys
import zlib
from base64 import b64decode
from flask.sessions import session_json_serializer
from itsdangerous import base64_decode
def decryption(payload):
    payload, sig = payload.rsplit(b'.', 1)
    payload, timestamp = payload.rsplit(b'.', 1)
    decompress = False
    if payload.startswith(b'.'):
        payload = payload[1:]
        decompress = True
    try:
        payload = base64_decode(payload)
    except Exception as e:
        raise Exception('Could not base64 decode the payload because of '
                         'an exception')
    if decompress:
        try:
            payload = zlib.decompress(payload)
        except Exception as e:
            raise Exception('Could not zlib decompress the payload before '
                             'decoding the payload')
    return session_json_serializer.loads(payload)
```

if \_\_name\_\_ == '\_\_main\_\_':
 s = "这里填入需要解密的session"
 print(decryption(s.encode()))



通过解密后的内容可以看到解密出来原来的内容,能看到很明显一个name字段正是我们之前注册的12345账户,那只要改一下这个值,将其修改为admin,然后重新加密一下就可以了,加密的脚本看大佬的writeup上有个地址: https://github.com/noraj/flask-session-cookie-manager,拿到后直接使用即可

不过要伪造session前,加密还需要一个值SECRET\_KEY,这个在网页源码中的config.py中能看到



## 加密后,将该伪造的session替换原网页的session

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替换成功后发送请求就能成功得到该题的flag

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CSDN @Dexret

### hctf

#### Hello admin

### flag{bcdadcc7-a6a6-43f1-9691-28bf104625aa}

Welcome to hctf

flag{bcdadcc7-a6a6-43f1-9691-28bf104625aa}

花絮:

在尝试该题admin的密码时,意外的猜到的密码: 123,没想到怎么简单,还以为该题考点为弱口令,不过想想 应该没那么简单,看了一下大佬写的wp,最后用了session的伪造做的题