

2018 强网杯 安恒杯 部分write up

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• 蜘蛛侠啊

安恒杯misc

- linux tshark identity 部分指令
- 附件下载 <https://pan.baidu.com/s/1uo0GFufTjMqR8rtBzp5PIQ> 密码 2cq5

```
0000 00 0c 29 23 98 99 00 50 56 c0 00 08 08 00 45 00 ..)#...P V.....E.
0010 00 66 60 b7 00 00 80 01 dc 0c c0 a8 be 01 c0 a8 .f^.....
0020 be 80 08 00 0f 51 0c 6e 01 00 24 24 53 54 41 52 .....Q.n ..$$STAR
0030 54 24 24 74 72 6a 42 46 33 6b 4a 6a 44 72 35 30 T$$trjBF 3kjDr50
0040 49 65 39 53 41 47 65 38 39 51 72 79 4e 69 43 6d Ie9SAGe8 9QryNiCm
0050 44 32 59 67 7a 49 6e 79 36 63 76 6e 67 43 7a 51 D2YgzIny 6cvngCzQ
0060 69 77 4b 4e 49 6d 71 33 6d 69 55 45 30 66 64 44 iwKNImq3 miUE0fdD
0070 4d 4e 6e 0a Mnn.
```

```
0000 00 50 56 c0 00 08 00 0c 29 23 98 99 08 00 45 00 .PV.....)#....E.
0010 00 66 46 94 00 00 40 01 36 30 c0 a8 be 80 c0 a8 .fF...@. 60.....
0020 be 01 00 00 e1 c3 b8 a8 01 00 24 24 53 54 41 52 ..... ..$$STAR
0030 54 24 24 51 6b 33 6f 33 64 42 44 4e 66 53 75 43 T$$Qk3o3 dBDNfSuC
0040 62 30 62 65 73 66 51 71 78 67 51 4b 59 4b 61 52 b0besfQq xgQKYKaR
0050 69 38 47 42 41 55 45 44 55 32 4b 69 45 45 42 55 i8GBAUED U2KiEEBU
0060 51 46 44 37 30 6f 54 41 56 45 44 41 71 4b 69 67 QFD70oTA VEDAqKig
0070 6f 4a 69 0a oji.
```

首先打开附件pcap包 茫茫多的icmp包 稍微看一下似乎每个包内容都不太一样

但是 \$\$START\$\$ 似乎暗示了什么

看看最后一个ICMP包:

```
0000 00 50 56 c0 00 08 00 0c 29 23 98 99 08 00 45 00 .PV.....)#....E.
0010 00 3f d5 dd 00 00 40 01 a7 0d c0 a8 be 80 c0 a8 .?....@. ....
0020 be 01 00 00 ca ad 0c 6e 01 00 24 24 53 54 41 52 .....n ..$$STAR
0030 54 24 24 2d 2d 2d 2d 45 4e 44 20 43 45 52 54 T$$----- END CERT
0040 49 46 49 43 41 54 45 2d 2d 2d 2d 2d 0a IFICATE- ----.
```

基本可以判定这是传递了一个文件 因此我们的思路就是把这个文件提取出来

linux 的 tshark 命令可以实现这个功能 具体的参数可以度娘学习下

```
root@kali:~/ctf# tshark -r out.pcap -T fields -e data > 1.txt
```

```
242453544152542424d2d2d2d2d2d2d424547494e2043455254494649434154452d2d2d2d2d0a
242453544152542424d2d2d2d2d2d424547494e2043455254494649434154452d2d2d2d2d0a
242453544152542424d2d2d2d2d2d424547494e2043455254494649434154452d2d2d2d2d0a
242453544152542424d2d2d2d2d2d424547494e2043455254494649434154452d2d2d2d2d0a
24245354415254242454573444242514141414141414149414b6d515445776c734338345754554e414b35474451414941414141415a6d78685a79356e61575a6b7646645545307a62425a704f0a
24245354415254242454573444242514141414141414149414b6d515445776c734338345754554e414b35474451414941414141415a6d78685a79356e61575a6b7646645545307a62425a704f0a
24245354415254242454573444242514141414141414149414b6d515445776c734338345754554e414b35474451414941414141415a6d78685a79356e61575a6b7646645545307a62425a704f0a
24245354415254242454573444242514141414141414149414b6d515445776c734338345754554e414b35474451414941414141415a6d78685a79356e61575a6b7646645545307a62425a704f0a
24245354415254242454573444242514141414141414149414b6d515445776c734338345754554e414b35474451414941414141415a6d78685a79356e61575a6b7646645545307a62425a704f0a
24245354415254242454573444242514141414141414149414b6d515445776c734338345754554e414b35474451414941414141415a6d78685a79356e61575a6b7646645545307a62425a704f0a
242453544152542424657a6e666638376c575773755a7333467a467037356e6c6d37796e62317437477944683441576747794434456950484c536f71704b456972795966b6f69614d550a
242453544152542424657a6e666638376c575773755a7333467a467037356e6c6d37796e62317437477944683441576747794434456950484c536f71704b456972795966b6f69614d550a
242453544152542424657a6e666638376c575773755a7333467a467037356e6c6d37796e62317437477944683441576747794434456950484c536f71704b456972795966b6f69614d550a
2424535441525424243549386456354848596c524d444e534e6a625446e6a5053737251307472557964485538364557784f2b56745a2b3973362b6a7136527a7351416768654d6662320a
2424535441525424243549386456354848596c524d444e534e6a625446e6a5053737251307472557964485538364557784f2b56745a2b3973362b6a7136527a7351416768654d6662320a
2424535441525424243549386456354848596c524d444e534e6a625446e6a5053737251307472557964485538364557784f2b56745a2b3973362b6a7136527a7351416768654d6662320a
2424535441525424243549386456354848596c524d444e534e6a625446e6a5053737251307472557964485538364557784f2b56745a2b3973362b6a7136527a7351416768654d6662320a
2424535441525424244d5a61574d57362b4d523675735147422f71366e593035486e6f74495349384b5434382f642f6e632b59784955676f784c4e6f6a314f47456c5a5775756261320a
2424535441525424244d5a61574d57362b4d523675735147422f71366e593035486e6f74495349384b5434382f642f6e632b59784955676f784c4e6f6a314f47456c5a5775756261320a
2424535441525424244d5a61574d57362b4d523675735147422f71366e593035486e6f74495349384b5434382f642f6e632b59784955676f784c4e6f6a314f47456c5a5775756261320a
2424535441525424244d5a61574d57362b4d523675735147422f71366e593035486e6f74495349384b5434382f642f6e632b59784955676f784c4e6f6a314f47456c5a5775756261320a
24245354415254242474624778693657686f35575715a2f685352554e61326b4645776b5a724b61306d6f3243727132496b722b697569316132555a41326c39594956594f633045430a
24245354415254242474624778693657686f35575715a2f685352554e61326b4645776b5a724b61306d6f3243727132496b722b697569316132555a41326c39594956594f633045430a
24245354415254242474624778693657686f35575715a2f685352554e61326b4645776b5a724b61306d6f3243727132496b722b697569316132555a41326c39594956594f633045430a
24245354415254242474624778693657686f35575715a2f685352554e61326b4645776b5a724b61306d6f3243727132496b722b697569316132555a41326c39594956594f633045430a
2424535441525424246792b7655326e68774e5138305849537838493573317a39426d7a6352346d684c364e495838695a63366d70497835426c63362b646545683956466e61314f690a
2424535441525424246792b7655326e68774e5138305849537838493573317a39426d7a6352346d684c364e495838695a63366d70497835426c63362b646545683956466e61314f690a
2424535441525424246792b7655326e68774e5138305849537838493573317a39426d7a6352346d684c364e495838695a63366d70497835426c63362b646545683956466e61314f690a
2424535441525424246792b7655326e68774e5138305849537838493573317a39426d7a6352346d684c364e495838695a63366d70497835426c63362b646545683956466e61314f690a
24245354415254242461394a53366a4f5443304f394c3537797545687776487a43496438556c322b6b58366d6f3432766c35756352377574354a6f61594542655a52496f68583735590a
24245354415254242461394a53366a4f5443304f394c3537797545687776487a43496438556c322b6b58366d6f3432766c35756352377574354a6f61594542655a52496f68583735590a
24245354415254242461394a53366a4f5443304f394c3537797545687776487a43496438556c322b6b58366d6f3432766c35756352377574354a6f61594542655a52496f68583735590a
242453544152542424654a4663565a682f3679617a71374874615576503637374a72656e4654382b5764786665666e2f31646c6442536b564c7a54516b49434c76516d62526864546a0a
242453544152542424654a4663565a682f3679617a71374874615576503637374a72656e4654382b5764786665666e2f31646c6442536b564c7a54516b49434c76516d62526864546a0a
242453544152542424654a4663565a682f3679617a71374874615576503637374a72656e4654382b5764786665666e2f31646c6442536b564c7a54516b49434c76516d62526864546a0a
```

将 hex 转为 ascii 码 发现内容有冗余 跑个脚本冷静一下

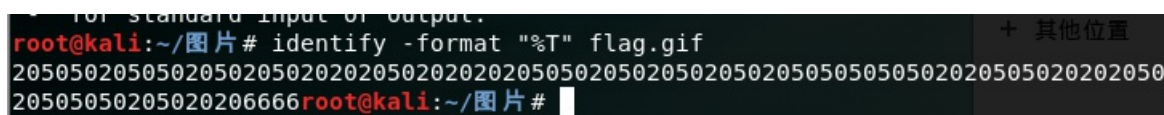
```
1 a=open('1.txt')
2 f=open('2.txt','w')
3 i=0
4 while i != 72156:
5     b=a.readline()
6     if i%4==0:
7         f.write(f'{b}')
8     i+=1
9 f.close()
```

跑完之后发现使用base64进行了加密 再来个脚本

```
1 import base64
2 lines = open('2.txt','rb').readlines()
3 flie = open('file','wb')
4 result = ""
5 for line in lines:
6     flie.write(base64.b64decode(line.strip()))
```

文件最终是以zip格式生成的 解压后得到蜘蛛侠的特写gif

gif帧播放的很诡异 使用linux的 identity 命令查看一下



绝大多数帧播放时间都是20 或者50毫秒 将20看做0 50看做1

转化为二进制 再解码之后:

Hex to ASCII text converter

Hex to ASCII text converter.

Enter 2 digits hex numbers with any prefix / postfix / delimiter and press the *Convert* button (e.g. FF 43 5A 7F):

6d44355f3174

Convert Reset Swap

mD5_1t

Select

将这个字符串md5后即可提交flag

- **md5**

强网杯web签到

- 题目环境 <http://39.107.33.96:10000/>

题目虽说是签到题 难度却丝毫不签到 而且从这道题可以学到不少哈希函数的姿势

- 第一部分

题目逻辑:

```
<!--  
    if($_POST['param1']!= $_POST['param2'] && md5($_POST['param1'])==md5($_POST['param2'])) {  
        die("success!");  
    }  
-->
```

应对方案: php 0e开头的数字会当做科学计数法解析 因此只要传两组md5值开头为0e的即可

参考网站: <https://www.cnblogs.com/Primzahl/p/6018158.html>

- 第二部分

题目逻辑:

```
<!--
    if($_POST['param1']!= $_POST['param2'] && md5($_POST['param1'])===md5($_POST['param2'])) {
        die("success!");
    }
-->
```

php为了针对0e错误 专门定义了=== 系列操作符 意思是两参数类型和值都相同才返回真 !== 是指两个参数的类型和值都相同时才返回假

因此这一问的意思是要构建两个参数 使得他们类型或者值不相同 但哈希值相同

应对方案: 使用burpsuite 传两个值不相同的数组即可 (php的md5函数如果参数不是字符串则返回一个null 而 null===null)

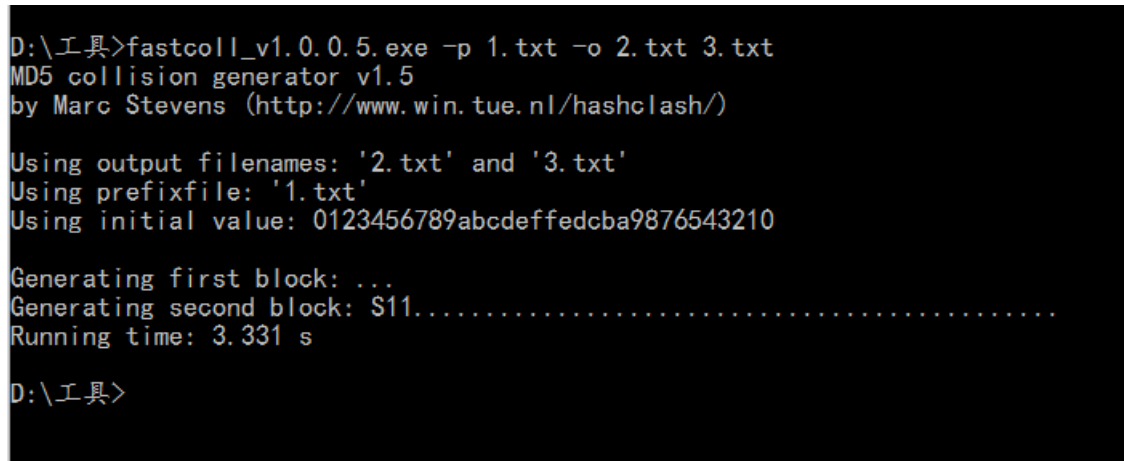
- 第三部分

题目逻辑:

```
<!--
    if((string)$_POST['param1']!=(string)$_POST['param2'] && md5($_POST['param1'])===md5($_POST['param2'])) {
        die("success!");
    }
-->
```

这下传数组大法使不了了 php这次将两个参数强行转成string

度娘了一个生成相同md5值的软件fastcoll



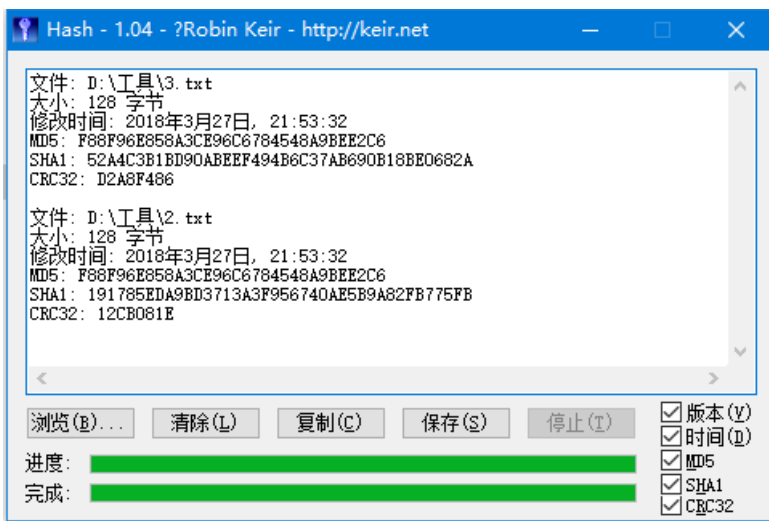
```
D:\工具>fastcoll_v1.0.0.5.exe -p 1.txt -o 2.txt 3.txt
MD5 collision generator v1.5
by Marc Stevens (http://www.win.tue.nl/hashclash/)

Using output filenames: '2.txt' and '3.txt'
Using prefixfile: '1.txt'
Using initial value: 0123456789abcdeffedcba9876543210

Generating first block: ...
Generating second block: S11.....
Running time: 3.331 s

D:\工具>
```

检验下生成的两个文件



将两个文件url编码后上传到服务器即可得到flag

```
1 #编码的python脚本
2 from urllib import parse
3 result = parse.quote(open('3.txt','rb').read())
4 print(result)
```

txt文件只哈希文件内容 不一样的内容哈希值基本不可能一样 fastcoll造出来的文件只能碰撞单一哈希函数（两文件其他的哈希值均不相同）

fastcoll产生的两个txt文件是加上文件头尾之后恰好哈希值相同，所以去除掉文件头尾（只哈希内容）哈希值就不会相同

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