CTF-安恒19年二月月赛部分writeup



于 2019-02-26 11:12:00 发布 664 % 收藏

原文链接: http://www.cnblogs.com/puregh/p/10435229.html

版权

CTF-安恒19年二月月赛部分writeup

MISC1-来玩个游戏吧

题目:



■ 题目说明.txt - 记事本

文件(F) 编辑(E) 格式(O) 查看(V) 帮助(H)

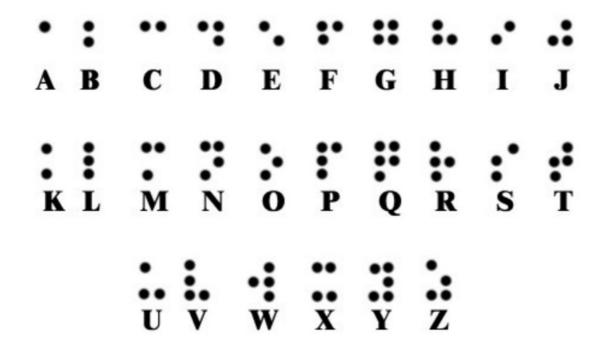
学信息安全的朋友给你发来一封邮件,是一个小程序,有两个关卡,只要你通过这两个 关卡,就会收到一封邮件。

但是这封邮件对于一般人的话会当做垃圾邮件处理,但是你知道,朋友所要描述的信息 就在这封垃圾邮件当中。

邮件内容是普通的信息,但是你知道绝密消息(flag)就隐藏在其中,需要一个在线的 网站去解密,而这个网站使用了栅格密码。

■ Get Flag	_		×
第一关			
解出字符串':':'、'、・':::'、:'・':':':'':'':'':'':'':'':'':'':'':'':'	经常见	到!)	
48-2-			
提交			
第二关			
两个文件的md5值一样就可以?			
输入第一个文件的路径			
輸入第二个文件的路径			
提交			
邮件接收区			
程序的图标是不是很有爱,猪年来到,送你一头发财猪!			^
为了让你可以复制这个字符串,我决定将字符串发给你,""'			
			~

第一关,一眼可以看出是盲文,之前做过类似题目



拿到在线网站解一下

加密 解密 □使用密码

??41402abc4b2a76b9719d911017c592

??41402abc4b2a76b9719d911017c592,那么就奇怪了,这个??是什么东西,数一下加上??正好32位,应该是个MD5了,索性直接百度一下,

5d41402abc4b2a76b9719d911017c592

1个回答 - 回答时间: 2009年12月28日

最佳答案: 结果是hello 方法是用MD5反查网站www

第一关答案出来了,试过了MD5值不对,hello是正确的,下一关。

第二关提示

两个文件的md5值一样就可以?

没见过这种的,还是百度一下,

® 使用 fastcoll进行md5碰撞,两个不同的文件md5值一样。

2017年06月26日 23:10:12 sysprogram 阅读数:5317

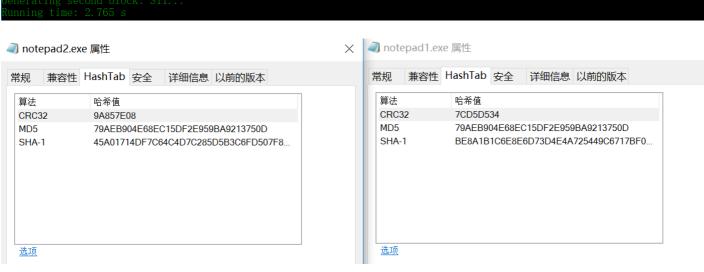
⑥CSDN 版权声明:本文为博主原创文章,未经博主允许不得转载。 https://blog.csdn.net/SysProgram/article/details/73753354

生成两个文件

fastcoll_v1.0.0.5.exe -p C:\windows\notepad.exe -o D:\notepad1.exe D:\notepad2.exe 比较 md5 校验是一样的,但是文件内容不一样。

下载了这个脚本后执行命令

fastcoll_v1.0.0.5.exe -p C:\windows\notepad.exe -o D:\notepad1.exe D:\notepad2.exe (因为没有规定文件名啥的就直接复制他的命令了)



直接将文件路径复制到文本框即可

■ Get Flag	- 🗆	×
第一关		
解出字符串':':'.'':::::::::::::::::::::::::::	。(这是什么鬼啊?貌似在公交站经常见到!)	
hello		
提交		
第二关		
两个文件的md5值一样就可以?		
輸入第一个文件的路径		
D:\notepad1.exe		
輸入第二个文件的路径		
D:\notepad2.exe		
提交		
邮件接收区		
		^
送你一封包含flag的邮件:		
Dear Professional ; Especially for you - this cutting-edge		
intelligence ! If you no longer wish to receive our		
publications simply reply with a Subject: of "REMOVE"		
and you will immediately be removed from our club .		
This mail is being sent in compliance with Senate bill		
2216 , Title 9 ; Section 306 ! THIS IS NOT MULTI-LEVEL		
MARKETING . Why work for somebody else when you can		
become rich as few as 35 weeks . Have you ever noticed		
more people than ever are surfing the web and people		
will do almost anything to avoid mailing their bills		~

Dear Professional; Especially for you - this cutting-edge intelligence ! If you no longer wish to receive our publications simply reply with a Subject: of "REMOVE" and you will immediately be removed from our club . This mail is being sent in compliance with Senate bill 2216 , Title 9 ; Section 306 ! THIS IS NOT MULTI-LEVEL MARKETING . Why work for somebody else when you can become rich as few as 35 weeks . Have you ever noticed more people than ever are surfing the web and people will do almost anything to avoid mailing their bills . Well, now is your chance to capitalize on this! WE will help YOU decrease perceived waiting time by 120% & decrease perceived waiting time by 140% . You can begin at absolutely no cost to you . But don't believe us ! Mrs Jones of Minnesota tried us and says "I was skeptical but it worked for me" . We assure you that we operate within all applicable laws . Because the Internet operates on "Internet time" you must act now ! Sign up a friend and your friend will be rich too . Warmest regards . Dear Cybercitizen , We know you are interested in receiving red-hot announcement ! We will comply with all removal requests ! This mail is being sent in compliance with Senate bill 1619; Title 2; Section 301. This is NOT unsolicited bulk mail ! Why work for somebody else when you can become rich within 53 MONTHS! Have you ever noticed more people than ever are surfing the web and more people than ever are surfing the web . Well, now is your chance to capitalize on this . We will help you use credit cards on your website plus decrease perceived waiting time by 150% . The best thing about our system is that it is absolutely risk free for you! But don't believe us ! Mrs Simpson of Washington tried us and says "Now I'm rich, Rich, RICH" . We assure you that we operate within all applicable laws! We beseech you - act now ! Sign up a friend and your friend will be rich too . Thank-you for your serious consideration of our offer ! Dear Friend ; This letter was specially selected to be sent to you! If you no longer wish to receive our publications simply reply with a Subject: of "REMOVE" and you will immediately be removed from our mailing list . This mail is being sent in compliance with Senate bill 2716 , Title 2 ; Section 306 ! This is a ligitimate business proposal . Why work for somebody else when you can become rich inside 33 weeks . Have you ever noticed more people than ever are surfing the web plus more people than ever are surfing the web . Well, now is your chance to capitalize on this ! WE will help YOU SELL MORE and process your orders within seconds . You can begin at absolutely no cost to you . But don't believe us ! Mrs Jones of Kentucky tried us and says "I was skeptical but it worked for me" ! This offer is 100% legal ! We implore you - act now . Sign up a friend and you'll get a discount of 50% . God Bless .

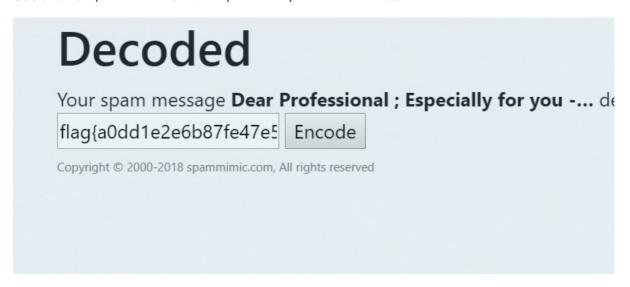
题目提示了:需要一个在线的网站去解密,而这个网站使用了栅格密码。

卡尔达诺栅格密码沿用至今,例如, "Spam Mimic"这个网站就使用了栅格密码,不过这个网站的程序不是用来发现隐藏消息的,而是用来加密和解密(如图1.12所示)。



这个网站的目的是模拟一封看似是垃圾邮件却包含隐藏消息的邮件。人们每天都会收到大量的垃圾邮件,除非有人知道其中某封邮件会包含隐藏消息,否则就会将其当作垃圾邮件处理掉了。但密信接收者是知道的,他会登录spam Mimic网站,输入邮件内容,得到隐藏消息。

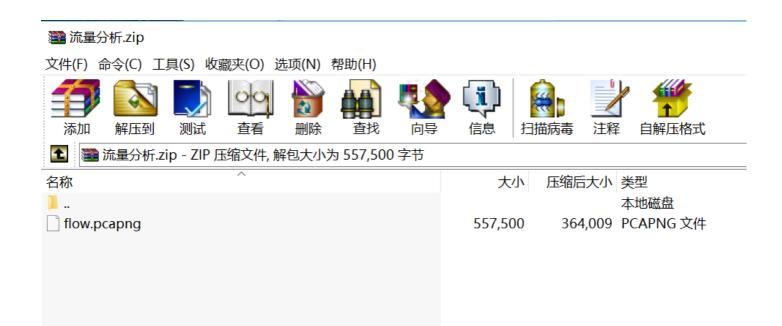
搜索关键字Spam Mimic到网站 http://www.spammimic.com/解码



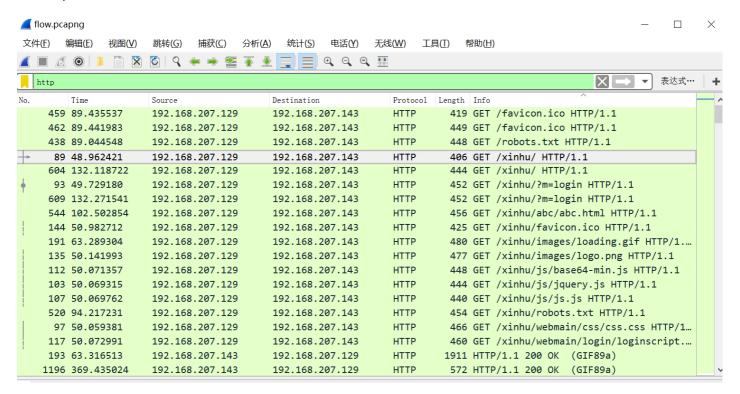
flag为: flag{a0dd1e2e6b87fe47e5ad0184dc291e04}

MISC2-简单的流量分析

题目:



过滤http协议,按照info排序一下



发现存在/xinhu/robots.txt

追踪http流到/xinhu/robots.txt

GET /xinhu/robots.txt HTTP/1.1 Host: 192.168.207.143 User-Agent: Mozilla/5.0 (X11; Linux x86_64; rv:31.0) Gecko/20100101 Firefox/ 31.0 Iceweasel/31.5.0 Accept: text/html,application/xhtml+xml,application/xml;q=0.9,*/*;q=0.8 Accept-Language: en-US,en;q=0.5 Accept-Encoding: gzip, deflate Cookie: deviceid=1537883014341; PHPSESSID=8aqvfladb5epcd3ije75oc5163 Connection: keep-alive HTTP/1.1 200 OK Date: Tue, 25 Sep 2018 15:32:58 GMT Server: Apache/2.2.22 (Debian) Last-Modified: Tue, 25 Sep 2018 13:45:26 GMT ETag: "6ca06-24-576b2516e6980" Accept-Ranges: bytes Vary: Accept-Encoding Content-Encoding: gzip Content-Length: 53 Keep-Alive: timeout=5, max=97 Connection: Keep-Alive Content-Type: text/plain User-agent:* Disallow: /abc/abc.html

发现abc.html,继续跟进

GET /xinhu/abc/abc.html HTTP/1.1 Host: 192.168.207.143 User-Agent: Mozilla/5.0 (X11; Linux x86_64; rv:31.0) Gecko/20100101 Firefox/ 31.0 Iceweasel/31.5.0 Accept: text/html,application/xhtml+xml,application/xml;q=0.9,*/*;q=0.8 Accept-Language: en-US, en; q=0.5 Accept-Encoding: gzip, deflate Cookie: deviceid=1537883014341; PHPSESSID=8aqvfladb5epcd3ije75oc5163 Connection: keep-alive HTTP/1.1 200 OK Date: Tue, 25 Sep 2018 15:33:06 GMT Server: Apache/2.2.22 (Debian) Last-Modified: Tue, 25 Sep 2018 14:13:58 GMT ETag: "143053-ac-576b2b7797580" Accept-Ranges: bytes Vary: Accept-Encoding Content-Encoding: gzip Content-Length: 144 Keep-Alive: timeout=5, max=100 Connection: Keep-Alive Content-Type: text/html md5 0x99a98e067af6b09e64f3740767096c96 DES 0xb19b21e80c685bcb052988c11b987802d2f2808b2c2d8a0d (129->143)

(143 -> 129)

发现MD5和两串DES

md5 0x99a98e067af6b09e64f3740767096c96

DES 0xb19b21e80c685bcb052988c11b987802d2f2808b2c2d8a0d (129->143)

DES 0x684a0857b767672d52e161aa70f6bdd07c0264876559cb8b

DES 0x684a0857b767672d52e161aa70f6bdd07c0264876559cb8b (143->129)

继续向下分析,发现都是IPSec加密后的流量,尝试使用前面给的MD5和DES解密

ip. src=	=192. 168. 207. 129						X
No.	Time	Source	Destination	Protoco1	Length	Info	^
1236	376.121763	192.168.207.129	192.168.207.143	ESP	502	ESP	(SPI=0x0e0d0a01)
1239	376.167677	192.168.207.129	192.168.207.143	ESP	118	ESP	(SPI=0x0e0d0a01)
1240	377.609721	192.168.207.129	192.168.207.143	ESP	566	ESP	(SPI=0x0e0d0a01)
1243	377.614010	192.168.207.129	192.168.207.143	ESP	118	ESP	(SPI=0x0e0d0a01)
1244	379.365727	192.168.207.129	192.168.207.143	ESP	566	ESP	(SPI=0x0e0d0a01)
1247	379.368243	192.168.207.129	192.168.207.143	ESP	118	ESP	(SPI=0x0e0d0a01)
1248	381.166793	192.168.207.129	192.168.207.143	ESP	558	ESP	(SPI=0x0e0d0a01)
1253	381.206872	192.168.207.129	192.168.207.143	ESP	118	ESP	(SPI=0x0e0d0a01)
1254	381.309242	192.168.207.129	192.168.207.143	ESP	526	ESP	(SPI=0x0e0d0a01)
1259	381.331370	192.168.207.129	192.168.207.143	ESP	118	ESP	(SPI=0x0e0d0a01)
1263	384.554637	192.168.207.129	192.168.207.143	ESP	566	ESP	(SPI=0x0e0d0a01)
1266	384.568718	192.168.207.129	192.168.207.143	ESP	118	ESP	(SPI=0x0e0d0a01)
1267	386.820322	192.168.207.129	192.168.207.143	ESP	558	ESP	(SPI=0x0e0d0a01)
1270	386.828254	192.168.207.129	192.168.207.143	ESP	118	ESP	(SPI=0x0e0d0a01)
1273	389.984682	192.168.207.129	192.168.207.143	ESP	566	ESP	(SPI=0x0e0d0a01)
1276	389.988192	192.168.207.129	192.168.207.143	ESP	118	ESP	(SPI=0x0e0d0a01)
1277	391.829182	192.168.207.129	192.168.207.143	ESP	566	ESP	(SPI=0x0e0d0a01)
1280	391.833346	192.168.207.129	192.168.207.143	ESP	118	ESP	(SPI=0x0e0d0a01)
1283	393.966740	192.168.207.129	192.168.207.143	ESP	558	ESP	(SPI=0x0e0d0a01)

wireshark进入Preference菜单下的Profile,找到ESP,配置如下:

```
        Protocol
        Src IP
        Dest IP
        SPI
        Encryption
        Encryption Key
        Authentication
        Authentication Key

        IPv4
        192.168.207.129
        192.168.207.124
        192.168.207.124
        0x0e0d0a01
        TripleDES-CBC [RFC2451]
        0xb19b21e80c685bcb052988c11b987802d2f2808b2c2d8a0d
        HMAC-MD5-96 [RFC2403]
        0x99a98e067af6b09e64f3740767096c96

        IPv4
        192.168.207.124
        192.168.207.129
        0x0e0d0a02
        TripleDES-CBC [RFC2451]
        0x684a0857b767672d52e161aa70f6bdd07c0264876559cb8b
        HMAC-MD5-96 [RFC2403]
        0x99a98e067af6b09e64f3740767096c96
```

此时再次过滤http发现有部分响应包带上了数字,102108转换为ASCII码则为fl所以统一提取转换。

```
http
                                                                                                                           表达式…
                                                                                                                                    +
                                          Destination
                                                               Protocol Length Info
                                           192.168.207.129
    91 49.691325
                     192.168.207.143
                                                                         589 HTTP/1.1 302 Found (text/html) (text/html)
  1297 399.096349
                     192.168.207.129
                                          192.168.207.143
                                                               HTTP
                                                                         590 GET /xinhu/include/information/1_102.php HTTP/1.1
  1303 401.407794
                     192.168.207.129
                                          192.168.207.143
                                                               HTTP
                                                                         590 GET /xinhu/include/information/2_108.php HTTP/1.1
  1315 406.374562
                     192.168.207.129
                                          192.168.207.143
                                                                         590 GET /xinhu/include/information/4_103.php HTTP/1.1
                                                               HTTP
                   192.168.207.129
  1321 409.119178
                                          192.168.207.143
                                                               HTTP
                                                                         590 GET /xinhu/include/information/5_123.php HTTP/1.1
  1358 422.780537
                     192.168.207.129
                                          192.168.207.143
                                                                         590 GET /xinhu/include/information/10_51.php HTTP/1.1
  1364 425.273932
                     192.168.207.129
                                          192.168.207.143
                                                               HTTP
                                                                         590 GET /xinhu/include/information/11_98.php HTTP/1.1
  1370 428.222183
                     192.168.207.129
                                          192.168.207.143
                                                               HTTP
                                                                          590 GET /xinhu/include/information/12_55.php HTTP/1.1
                                                               HTTP
  1379 430.359177
                                          192.168.207.143
                                                                         590 GET /xinhu/include/information/13 53.php HTTP/1.1
                     192.168.207.129
  1386 432.302664
                    192.168.207.129
                                          192.168.207.143
                                                               HTTP
                                                                         590 GET /xinhu/include/information/14_56.php HTTP/1.1
  1392 434.646495
                     192.168.207.129
                                          192.168.207.143
                                                                         590 GET /xinhu/include/information/15_102.php HTTP/1.1
                                                               HTTP
  1398 437.740607
                     192.168.207.129
                                          192.168.207.143
                                                               HTTP
                                                                         590 GET /xinhu/include/information/16_50.php HTTP/1.1
  1402 440.009170
                    192.168.207.129
                                          192.168.207.143
                                                                         590 GET /xinhu/include/information/17_53.php HTTP/1.1
  1406 442.285464
                     192.168.207.129
                                          192.168.207.143
                                                               HTTP
                                                                         590 GET /xinhu/include/information/18_53.php HTTP/1.1
  1410 444.874608
                     192.168.207.129
                                          192.168.207.143
                                                               HTTP
                                                                          590 GET /xinhu/include/information/19_50.php HTTP/1.1
  1417 446.812579
                                                                         590 GET /xinhu/include/information/20_55.php HTTP/1.1
                    192.168.207.129
                                          192.168.207.143
                                                               HTTP
  1425 448.766258
                     192.168.207.129
                                          192.168.207.143
                                                               HTTP
                                                                         590 GET /xinhu/include/information/21_54.php HTTP/1.1
  1436 451.881838
                     192.168.207.129
                                          192.168.207.143
                                                                         590 GET /xinhu/include/information/22_101.php HTTP/1.1
                                                               HTTP
  1447 456.513749
                     192.168.207.129
                                          192.168.207.143
                                                               HTTP
                                                                         590 GET /xinhu/include/information/23_53.php HTTP/1.1
Frame 242: 789 bytes on wire (6312 bits). 789 bytes captured (6312 bits) on interface 0
```

```
a =
[102,108,97,103,123,50,55,98,48,51,98,55,53,56,102,50,53,53,50,55,54,101,53,97,57,56,100,97,48,101,49,57,52,
55,98,101,100,125]
flag = ''
for i in a:
    flag +=chr(i)
print flag
```

flag{27b03b758f255276e5a98da0e1947bed} [Finished in 0.1s]

flag: flag{27b03b758f255276e5a98da0e1947bed}

CRYPTO1-hahaha

题目: a crypto-hahaha.zip 文件(E) 命令(C) 工具(S) 收藏夹(Q) 选项(N) 帮助(H) 添加 测试 查看 删除 ▲ crypto-hahaha.zip - ZIP 压缩文件, 解包大小为 146,422 字节 名称 大小 压缩后大小 类型 修改时间 CRC32 . 本地磁盘 1.txt * 2018/10/20 1... 19BA5849 6 18 文本文档 2018/10/20 1... 45D8E1CA 2.txt * 6 18 文本文档 3.txt * 6 18 文本文档 2018/10/20 1... A4164CA6 4.txt * 6 18 文本文档 2018/10/20 1... C4ADB2FB flag.pdf * 146,398 130,400 Chrome HTML Do... 2018/10/20 1... F01EF382

压缩包题目,其实看到这压缩包里的短位CRC32应该就能猜出是CRC32爆破了

当然也可以一步一步排除一下

首先binwalk分析得出非伪加密,爆破的话没有提示,不理想。

所以直接上脚本

```
\渗透测试\PythonScript\crc32-master>python crc32.py reverse 0x19BA5849
verification checksum: 0x19ba5849 (OK)
 lternative: 37mCIb (OK)
alternative: 3GQ2L2
            7CL3MQ
            BFpTos
                    (OK)
                    (OK)
alternative: KPhDyV
                    (OK)
lternative: o75QGt (OK)
 ternative
```

```
alternative<u>:</u>
alternative<mark>:</mark> is_ver (OK)
alternative: njXHOY
alternative: uPpZu6 (OK)
alternative: DRaQ8a (OK)
alternative: LXw24I (OK)
alternative: PFIRLU (OK)
alternative: TBTSM6 (OK)
alternative: hnHFfw (OK)
alternative: pIzkwP (OK)
alternative: pU57vD (OK)
alternative: r8RHCE (OK)
ılternativ<u>e:</u>
ılternative:
  \渗透测试\PythonScript\crc32-master>python crc32.py reverse 0xC4ADB2FB
lternative: VZPRSG (OK)
alternative: nrQFye (OK)
alternative: tiful_
                     (OK)
```

lternative: vUckhB (OK)

tanny 说:哈哈哈,出题人出题的时候被我看到按了那些键,每个字符键都按了一次,但是我没记住按的顺序哎。出题人的键盘图如下:



为了给大家帮忙,我又找出题人要了 sha1 值(e6079c5ce56e781a50f4bf853cdb5302e0d8f054), 聪明的你能帮我找到 flag 么?

按照给的提示,flag应该是flag{1or! 2or@ sechn}

然后给了sha1值,应该是要爆破了。。。

当时做到这里就停了,因为不会写脚本了

下面献上一叶飘零大佬的脚本

```
import itertools
import hashlib
def sha1(str):
    sha = hashlib.sha1(str)
    encrypts = sha.hexdigest()
    return encrypts
a1 = '1!'
a2 = '2@'
a3 = '{'}
a4 = ' 
for str1 in itertools.combinations(a1,1):
    for str2 in itertools.combinations(a2,1):
        str3 = str1[0] + str2[0] + sechn'
        for i in itertools.permutations(str3):
            tmp = (''.join(i))
            res = 'flag{'+tmp+'}'
            # print sha1(res)
            if sha1(res) == 'e6079c5ce56e781a50f4bf853cdb5302e0d8f054':
                print res
                break
```

flag{sh@1enc} [Finished in 0.3s]

flag:flag{sh@1enc}

小结:web没做出来太菜,pwn刚起步,压根没看,密码2也没做出来,需要的脑洞太大了,另外膜飘零师傅。

参考: https://www.anquanke.com/post/id/171543

转载于:https://www.cnblogs.com/pureqh/p/10435229.html