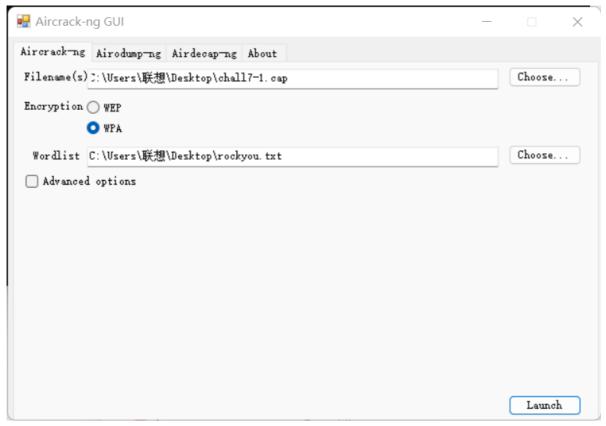
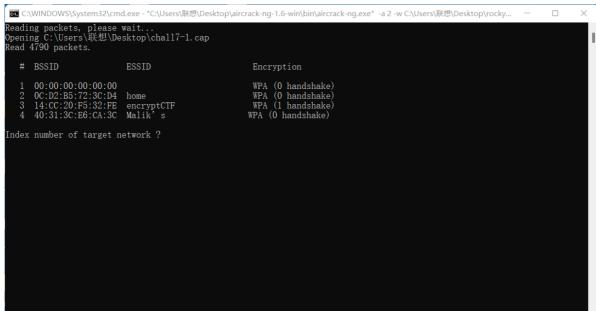
CTF1:

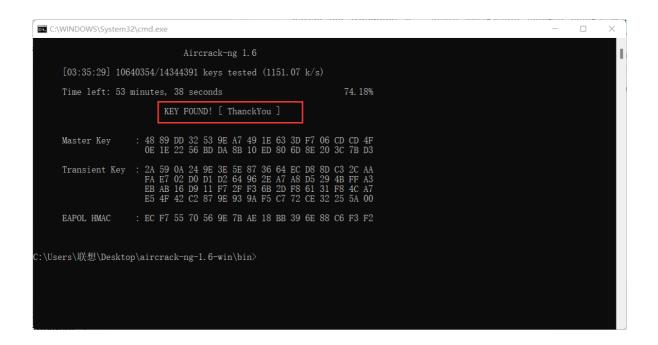
flag{aee19bb57a15b1821d4abdf7c89d4a27}

use aircrack-ng with rockyou.txt to find the password:





Finally find the answer:



MD5在线加密

请输入要加密的内容

ThanckYou

MD5加密

MD5加密结果

32位小写

aee19bb57a15b1821d4abdf7c89d4a27

复制

32位大写

AEE19BB57A15B1821D4ABDF7C89D4A27

复制

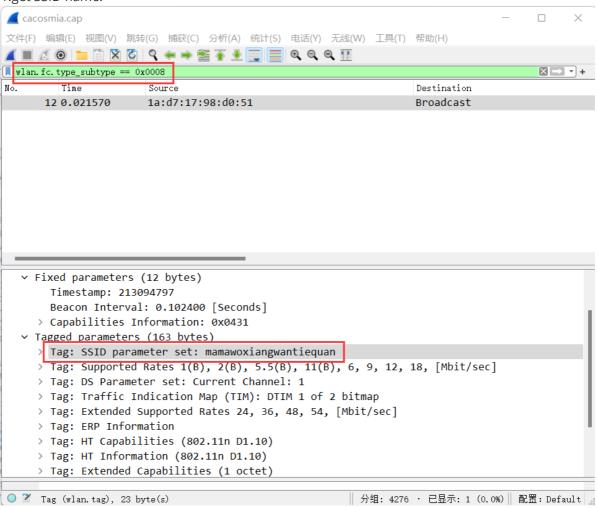
CTF2:

crack to get the word:

```
| Carry | Martin | Carry | Carry | Martin | Carry | Carry | Martin | Carry | Carry | Carry | Martin | Carry |
```

Decrypted packet:

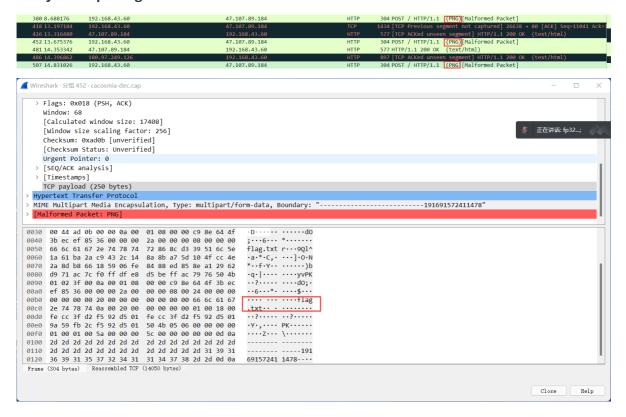
1.get SSID name:



2.decrypt it:

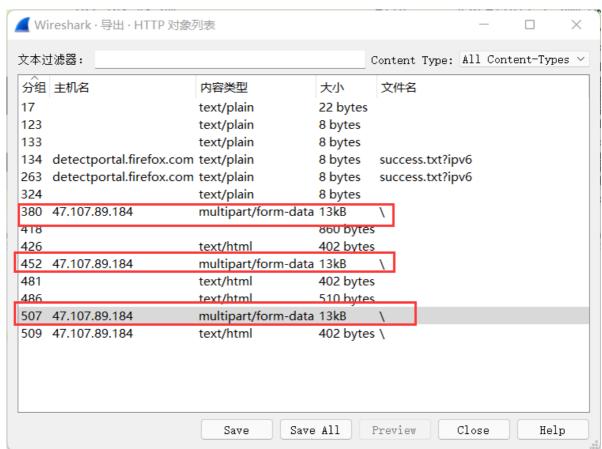
```
C:\WINDOWS\System32\cmd.exe
                                                                                                                                                                                                                                                                                                                                     ×
                                                                cygaircrack-ce-wpa-x86-avx-1-6-0.dll
cygaircrack-ce-wpa-x86-avx2-1-6-0.dll
cygaircrack-ce-wpa-x86-sse2-1-6-0.dll
                                                                                                                                                                              cygwin1.dl1
 airodump-ng.exe
airolib-ng.exe
airpcap.dll
                                                                                                                                                                                                                                                                  wesside-ng.exe
C:\Users\联想\Desktop\aircrack-ng-1.6-win\bin\airdecap-ng cacosmia.cap -e mamawoxiangwantiequan -p 12345678
Total number of stations seen 6
Total number of WEP data packets
Total number of WPA data packets
Number of plaintext data packets
Number of decrypted WEP packets
Number of corrupted WEP packets
Number of decrypted WPA packets
Number of decrypted WPA packets
Number of bad TKIP (WPA) packets
Number of bad CCMP (WPA) packets
 C:\Users\联想\Desktop\aircrack-ng-1.6-win\bin>ls
Aircrack-ng GUI.exe airtun-ng.exe
airbase-ng.exe airventriloquist-ng.exe
                                                                                                                                                                               cygcrypto-1.1.dll
                                                                                                                                                                              cyggcc_s-seh-1.dll
cygpcre-1.dll
cygsqlite3-0.dll
cygstdc++-6.dll
 aircrack-ng. exe
airdecap-ng. exe
airdecloak-ng. exe
                                                                                                                                                                                                                                                                makeivs-ng.exe
packetforge-ng.exe
                                                                besside-ng. exe
buddy-ng. exe
                                                                ouddy-ng.exe
cacosmia-dec.cap
cacosmia.cap
cygaircrack-ce-wpa-1-6-0.dll
cygaircrack-ce-wpa-x86-avx-1-6-0.dll
cygaircrack-ce-wpa-x86-avx2-1-6-0.dll
cygaircrack-ce-wpa-x86-sse2-1-6-0.dll
 aireplay-ng. exe
airodump-ng. exe
                                                                                                                                                                                                                                                                wesside-ng.exe
wpaclean.exe
                                                                                                                                                                               cygwinl. dll
                                                                                                                                                                              cygz.dll
debug.log
easside-ng.exe
 airolib-ng.exe
airpcap.dll
  airserv-ng. exe
    \Users\联想\Desktop\aircrack-ng-1.6-win\bin
```

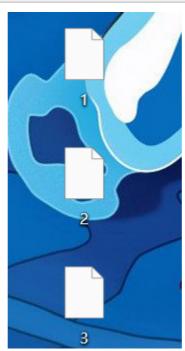
Analyse the package:

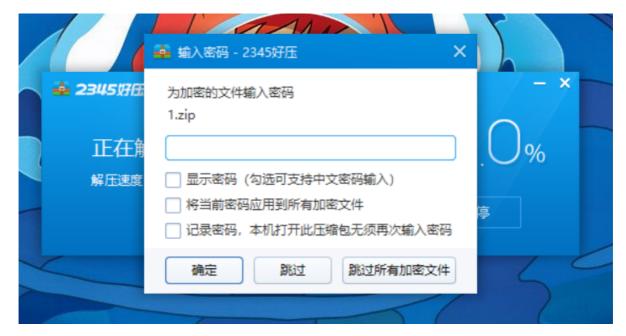


find it post 3 pngs and txt was hiden inside.

export it and rename it to zip.







Find the password for unzip, get hint from cookie:



Find the webite through DNS record:

Authority RRs: 0 Additional RRs: 0

> Queries

Answers

v 26rsfb.dnslog.cn: type A, class IN, addr 127.0.0.1

Name: 26rsfb.dnslog.cn _ Type: A (Host Address) (1)

Class: IN (0x0001)

Time to live: 40 (40 seconds)

Data length: 4 Address: 127.0.0.1

Then unzip it and get the flag.

flag{f14376d0-793e-4e20-9eab-af23f3fdc158}

flag{5db5b7b0bb74babb66e1522f3a6b1b12}

get the data in the vm:

```
▣
                               root@kali: ~/Desktop/chall7-3/Wifi
File Edit View Search Terminal Help
oot@kali:~/Desktop/chall7-3# cd Wifi/
oot@kali:~/Desktop/chall7-3/Wifi# LS
bash: LS: command not found
root@kali:~/Desktop/chall7-3/Wifi# ls
Windows 7-dde00fa9.vmem 客户端.cap 服务器.pcapng
oot@kali:~/Desktop/chall7-3/Wifi# volatility -f 'Windows 7-dde00fa9.vmem' image'
info
Volatility Foundation Volatility Framework 2.4
Determining profile based on KDBG search...
           Suggested Profile(s) : Win75P0x86, Win7SP1x86
                        AS Layer1 : IA32PagedMemoryPae (Kernel AS)
                        AS Layer2 : FileAddressSpace (/root/Desktop/chall7-3/Wifi/W
indows 7-dde00fa9.vmem)
                         PAE type : PAE
                              DTB: 0x185000L
                             KDBG: 0x83f3dbe8L
           Number of Processors :
     Image Type (Service Pack) : 0
                  KPCR for CPU 0 : 0x83f3ec00L
              KUSER SHARED DATA : 0xffdf0000L
            Image date and time : 2021-07-17 19:36:54 UTC+0000
     Image local date and time : 2021-07-18 03:36:54 +0800
 oot@kali:~/Desktop/chall7-3/Wifi#
```

get file dir:

```
▣
                          a.txt (~/Desktop/chall7-3/Wifi) - VIM
File Edit View Search Terminal Help
                     #Ptr
Offset(P)
                             #Hnd Access Name
                        17
0x000000001b7ebf80
                                0 RW-rwd \Device\HarddiskVolume1\$Directory
                         7
0x000000001bbf9420
                                0 R--r-d \Device\HarddiskVolume1\Windows\System
32\drivers\intelppm.sys
0x000000001bbf9b98
                        16
                                0 R--r-d \Device\HarddiskVolume1\Windows\System
32\drivers\dumpfve.sys
0x000000001bc0e4a8
                                0 R--r-d \Device\HarddiskVolume1\Windows\System
32\drivers\msfs.sys
0x000000001bcd92d0
                         8
                                0 R--rwd \Device\HarddiskVolume1\Windows\System
32\FirewallAPI.dll
0x000000001bcd9a18
                                0 R--rwd \Device\HarddiskVolume1\Windows\Fonts\
                         4
arialbd.ttf
0x000000001be2b368
                        15
                                0 RW-rwd \Device\HarddiskVolume1\$Mft
                                0 R--r-d \Device\HarddiskVolume1\Windows\System
0x000000001be2be70
                         4
32\wsnmp32.dll
0x000000001bea5448
                         1
                                1 R----- \Device\HarddiskVolume1\System Volume
Information\{3808876b-c176-4e48-b7ae-04046e6cc752}
                         7
0x000000001bfa92c0
                                0 R--r-- \Device\HarddiskVolume1\Windows\System
32\drivers\fltMgr.sys
0x000000001bfa9558
                        8
                                0 R--r-- \Device\HarddiskVolume1\Windows\System
32\drivers\amdxata.sys
                                                              1,1
                                                                             Top
```

Find zip file:

to unzip it need password:

search interface and find it:s

```
0x000000001c7ec5c8 2 1 R--rwd \Device\HarddiskVolume1\ProgramData\Microsoft\Wlansvc\Profiles\<mark>I</mark>nterfaces\{529B7D2A-05D1-4F21-A001-8F4FF817FC3A}
```

Then we get wifi password:

```
□ 元线网络连接-My_Wifi.xml 2021/7/18 2:55 HTML 文档 1 KB
```

```
▼<\LANProfile xmlns="http://www.microsoft.com/networking/\LAN/profile/v1">
   <name>My_Wifi</name>
  ▼<SSIDConfig>
    ▼<SSID>
        <hex>4D795F57696669</hex>
       <name>My_Wifi</name>
      <<u>√221n></u>
   </SSIDConfig>
   <connectionType>ESS</connectionType>
   <connectionMode>auto</connectionMode>

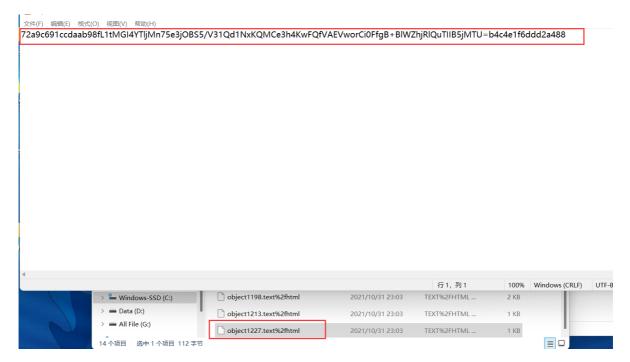
▼<MSM>

    ▼ <security>
      ▼<authEncryption>
         <authentication>\PA2PSK</authentication>
         <encryption>AES</encryption>
         <use0neX>false</use0neX>
       </authEncryption>
      ▼<sharedKey>
         <keyType>passPhrase</keyType>
         cted>false
         <keyMaterial>233@114514_qwe</keyMaterial>
         /snaredney/
     </security>
   </MSM>
 </WLANProfile>
```

decrept 客户端.cap

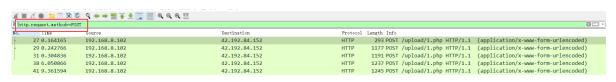
```
root@kali:~/Desktop/chall7-3/Wifi# ls
a.txt Windows 7-dde00fa9.vmem 服务器.pcapng
file.None.0x8862e008.dat 客户端.cap
My_Wifi.zip 客户端 -dec.cap
root@kali:~/Desktop/chall7-3/Wifi#
```

export HTTP object and get the last object:



And we need to decrpt it:

We find php script in the 服务器.pcap:



Finally by a script, we decrypt it:

